

Philips Lighting Catalogue 2014/15

PHILIPS

Philips
Lighting Catalogue
2014/15





Philips delivers innovation that matters to you

A technology company that cares about people.

From the very first light bulbs and radios, we've had one message at the heart of our company – our mission to improve people's lives through innovation that matters.

We don't just invent; we entertain, we enlighten, we solve. We are a technology company that cares about people.

It's in our DNA, and it's time to let it shine.

Terms and Conditions

All illustrations, information and specifications presented and referred to herein are believed to be correct at the time of publication. All measurements shown in millimetres unless otherwise stated.

Attachments to some products are optional and available at additional cost.

Philips Lighting reserves the right to make changes from time to time without notice or obligation in the specifications, design, colour or materials. Philips Lighting reserves the right to change and discontinue products.

Additional details and specifications are available from Philips Lighting on request. Or refer to product content online at www.philips.com.au/lighting

All due care has been taken to ensure that technical details listed in this guide are correct, however should any errors be found, Philips Lighting reserves the right to make alterations without notice.

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www.philips.com.au/lighting

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Product Overview

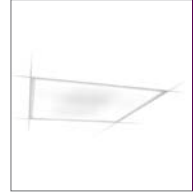
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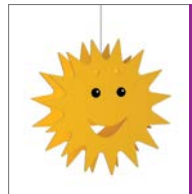
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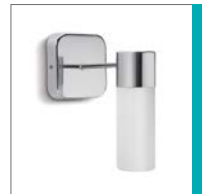
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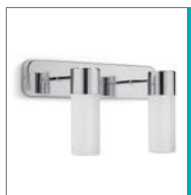
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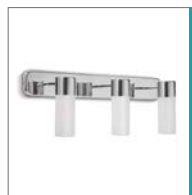
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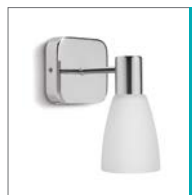
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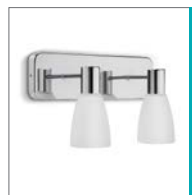
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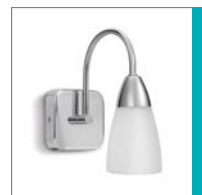
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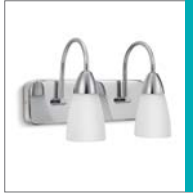
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Living Colors
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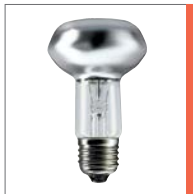
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Master TL5
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Master TL5
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CDM-TC Elite

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CDM-TC Elite
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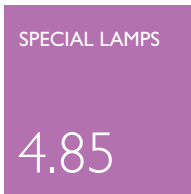
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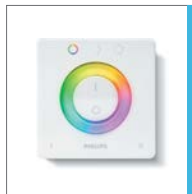
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ELECTRONIC
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ET-S Halogen
Transformer







Philips –

Your
Lighting
Partner

Philips Companies



Dyalite

Philips Dyalite is synonymous with the creation of sophisticated, simple, reliable and energy-efficient lighting control solutions for a wide range of industry sectors, including residential, custom installation, offices, retail, hospitality and public spaces. An industry leading innovator for over 20 years, Philips Dyalite is the solution of choice for a wide range of 'smart home', energy management and architectural lighting control applications. Philips Dyalite solutions blend high-level functionality with dramatic aesthetic sustainability to enable and enhance our lives.

Phone: 1300 554 178

Email: dyalite.info@philips.com

Website: www.philips.com/dyalite



ColorKinetics

Philips ColorKinetics transforms environments through dynamic and innovative uses of light. Our award-winning LED lighting systems, lighting controllers, and custom lighting solutions reinvent light as a highly efficient, long lasting, environmentally friendly, and inherently digital source of illumination.

Phone: 1300 304 404

Email: lightingsalesdesk@philips.com

Website: www.philips.com.au/lighting



Selecon

The passion for performance is the philosophy behind every luminaire manufactured by Philips Selecon. We offer lighting designers the tools to light the 'theatre of life' utilising innovative materials and design principals, and the latest lamp sources including LED, metal halide and tungsten halogen. Our luminaires are designed for entertainment applications, theatres, themed environments, convention centres, retail applications, museums and art galleries.

Where our light falls experiences are made.

Phone: 0419 133 342

Email: peter.mckenzie@philips.com

Website: www.seleconlight.com



Strand Lighting

Philips Strand offers a comprehensive and competitive range of dimming, control systems and software to answer the creative needs of the lighting designer, whether working in theatre, television, themed environments and sophisticated architectural applications.

Phone: 0419 133 342

Email: peter.mckenzie@philips.com

Website: www.strandlighting.com





Philips – Your Lighting Partner

As the world's leader in Lighting, Philips is driving the switch to energy-efficient lighting solutions. Philips provides a unique combination of advanced technologies, which include LED systems, lamps, drivers, optics, luminaires, lighting controls and accessories, as well as the supporting tools to help you apply them.

Here are a few examples of how we can work with you and support the Australian lighting industry.



Design and Project Support

The Philips Lighting projects team can provide consultation, guidance, and support with projects featuring lighting. This includes solutions for office, retail, industrial, commercial, institutional, sports facilities, city beautification and more.

Our experienced team can help you at every step of the way with lighting project management.

- Latest technology and innovations
- Energy efficient and sustainable lighting
- Total cost of ownership tools and comparisons
- Lighting design featuring the latest software
- Pricing and delivery
- After sales support



Philips Lighting
University

Online Training

Looking for in-depth personal training? – Try our Philips Lighting online training course.

Start with the fundamentals, and work your way through luminaires, lamps, and gear products, covering technologies, benefits and applications. The Philips Lighting University aims to grow your lighting knowledge at your own pace in a lively interactive environment.

Sustainability

In 2050 there will be 9 billion people living on Earth. Sustainable development for Philips means enabling all mankind to live healthy and well within the ecological carrying capacity of our planet.

Philips has a long sustainability history stretching all the way back to our founding fathers. In 1994 we launched our first program and set sustainability targets for our own operations. In 1998, we launched our first EcoVision program focused on operations and products showing energy saving characteristics and minimising hazardous materials in products and packaging. We also started to focus on sustainability in our supply chain in 2003. In 2010 we extended our scope further by including the social dimension of products and solutions, which is now reflected in our renewed company vision stating that we strive to make the world healthier and more sustainable through innovation. Our goal is to improve the lives of 3 billion people a year by 2025.



Philips Online

By its very nature, a printed catalogue like this represents the situation at a given moment in time.

For the very latest details on our extensive range of innovative lighting solutions and products, please check our website at www.philips.com.au/lighting

- eCatalogue
- New products
- Project planners
- Application information and trends
- Case studies



Lighting Hub iPad app



facebook.com/seewhatlightcando

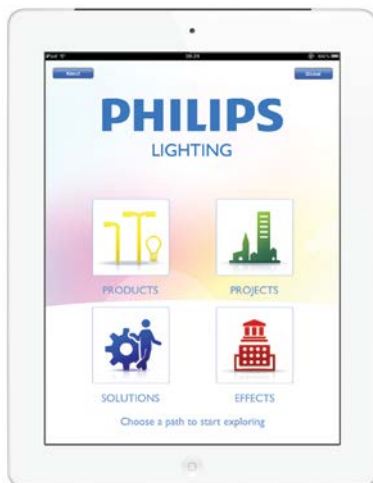


Innovations in Light



@PhilipsLight

In addition, sign up for our e-newsletters via the Philips website for the latest in Philips' news and product innovations.





Professional Luminaires







PowerBalance 2.0

When it comes to office lighting, new opportunities are presented to invest in the latest technology, allowing for energy savings of up to 25% compared to a conventional 4x14W T5 fitting as well as reduced operational costs. At Philips, we've designed our PowerBalance luminaire with all the above factors in mind. Combined with a rated lifetime of 50,000 hrs, the PowerBalance offers impressive energy savings resulting in reduced operational costs, trumping its conventional T5 predecessors.



Features and Benefits

- Advanced LED technology, offering efficacy and long lifetime
- Smart Pyramid Optics (SPO), ensuring excellent light control
- Choice of 3 lumen packages with 4000K colour temperature, ideal for office applications
- System efficiency of up to 114lm/W



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| W300L1200 | 1197 | 297 | 75 |
| W600L600 | 597 | 597 | 75 |

Dimensions in mm (Nominal)

| POWERBALANCE 2.0 | | | |
|-------------------------------------|---|-----------------------------|--|
| Family name | PowerBalance 2.0 | Driver | Integrated DALI driver |
| Model | RC600B | Dimmable | Compatible with DALI controllers |
| Lumen/ Watt | 32W/ 3100lm 33W/ 3700lm 43W/ 4200lm | Installation | T-Bar recessed mounting |
| Correlated Colour Temperature (CCT) | 4000K | IP rating | IP20 |
| Colour Rendering Index (CRI) | 80 | Weight | 6.5Kg |
| Flex and Plug | Yes | Colour of housing | Housing: post-painted steel. Optics: plastic |
| Lifetime L70* | 50,000hrs | Application | Offices, Healthcare, Department stores |
| Unified Glare Ratio (UGR) | 15 | Accessories | n/a |
| Optics | Smart Pyramid Optics (SPO) | Suspension Height - min/max | n/a |
| | | Maximum Run Length | n/a |



PowerBalance 2.0 continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|---------------------------------------|
| RC600B32W4KDREC | 911401561111 | RC600B LED31S/840 PSD W30L120 CAU |
| RC600B32W4KDSQ | 911401555811 | RC600B LED31S/840 PSD W60L60 CAU |
| RC600B32W4KDREA | 911401561211 | RC600B LED31S/840 PSD W30L120 AIR CAU |
| RC600B32W4KDSQA | 911401555911 | RC600B LED31S/840 PSD W60L60 AIR CAU |
| RC600B33W4KDREC | 911401555711 | RC600B LED35S/840 PSD W30L120 CAU |
| RC600B33W4KDSQ | 911401561611 | RC600B LED35S/840 PSD W60L60 CAU |
| RC600B33W4KDREA | 911401561011 | RC600B LED35S/840 PSD W30L120 AIR CAU |
| RC600B33W4KDSQA | 911401561711 | RC600B LED35S/840 PSD W60L60 AIR CAU |
| RC600B43W4KDREC | 911401560711 | RC600B LED40S/840 PSD W30L120 CAU |
| RC600B43W4KDSQ | 911401561811 | RC600B LED40S/840 PSD W60L60 CAU |
| RC600B43W4KDREA | 911401560811 | RC600B LED40S/840 PSD W30L120 AIR CAU |
| RC600B43W4KDSQA | 911401561911 | RC600B LED40S/840 PSD W60L60 AIR CAU |

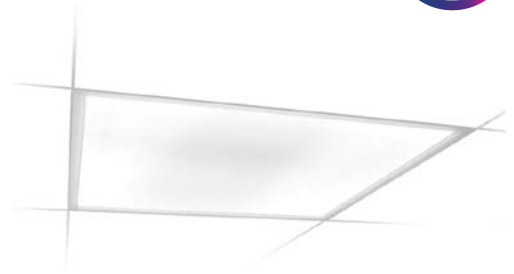


SmartPanel LED

Philips SmartPanel is an affordable LED lighting solution for general office areas, providing energy savings of up to 20% compared with similar output T5 fittings.

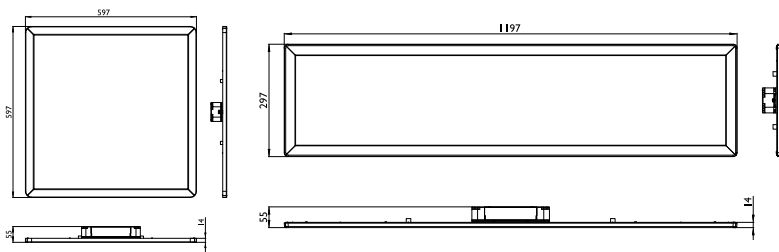
With its ultra-slim design, SmartPanel is suitable for both recessed and suspended applications to cater to all tastes and trends.

Featuring a side-lit LED and high quality light guide, Smart Panel creates a uniform and clean look for any office application.



Features and Benefits

- High System efficacy: 77lm/W for neutral white 4000K
- Improved working environment: High colour rendering (CRI>80); Excellent lighting uniformity
- Slim housing design: 14mm for housing height. 55mm with the driver height considered



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------------------|--------|--------|------------------------|
| RCI 60V Square | 597 | 597 | 14/55 |
| RCI 60V Rectangle | 1197 | 297 | 14/55 |
| Dimensions in mm (Nominal) | | | (H – including driver) |

SMARTPANEL LED

| | |
|------------------------|--|
| Family name | RCI60V |
| Lumen/Watt | 2500lm/33W – 3x14W replacement 3400lm/45W – 2x54W replacement |
| Colour temp | Warm white 3000K / Neutral white 4000K |
| Colour Rendering Index | >80 |
| Flex and Plug | Included |
| Lifetime L70* | 30,000 Hours |
| Office compliant/UGR | <19 |
| Louvre/Optics | Light guide with diffuser |
| Driver | Integrated driver |

* = When the fitting reaches 70% of full potential (new)

| | |
|--------------------------|---|
| Dimmable | Compatible with DALI controllers |
| Installation | Recessed: Individual; lay in exposed ceiling grids Suspended: Individual; suspended mounting with steel-wire-suspension kit (optional) with power cord |
| Classification/IP rating | IP20 |
| Colour/Materials | Housing; Frame: plastic Back cover: steel Light guide: PMMA Driver housing: Polycarbonate Trim Colour: White |
| Application | General lighting, Offices, Schools |
| Accessories | Suspension mounting kit (RCI60Z SMS PSU/ RCI60Z SMS PSD) Surface mounting kit (RCI60Z MB-SURF SQR/ RCI60Z MB-SURF REC) |



SmartPanel LED continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|-----------------------------------|
| RCI60V45W4KDSQ | 911401509811 | RCI60V LED34S/840 PSD W60L60 CAU |
| RCI60V45W4KDREC | 911401509911 | RCI60V LED34S/840 PSD W30L120 CAU |
| RCI60V45W4KFSQ | 911401509411 | RCI60V LED34S/840 PSU W60L60 CAU |
| RCI60V45W4KFREC | 911401509611 | RCI60V LED34S/840 PSU W30L120 CAU |
| RCI60V45W3KFSQ | 911401510011 | RCI60V LED34S/830 PSU W60L60 CAU |
| RCI60V45W3KFREC | 911401510211 | RCI60V LED34S/830 PSU W30L120 CAU |
| RCI60V45W3KDSQ | 911401510411 | RCI60V LED34S/830 PSD W60L60 CAU |
| RCI60V45W3KDREC | 911401510511 | RCI60V LED34S/830 PSD W30L120 CAU |
| RCI60V33W4KFSQ | 911401509511 | RCI60V LED25S/840 PSU W60L60 CAU |
| RCI60V33W4KFREC | 911401509711 | RCI60V LED25S/840 PSU W30L120 CAU |
| RCI60V33W3KFSQ | 911401510111 | RCI60V LED25S/830 PSU W60L60 CAU |
| RCI60V33W3KFREC | 911401510311 | RCI60V LED25S/830 PSU W30L120 CAU |
| RCI60ZSMSF | 911401585301 | RCI60Z SMS PSU |
| RCI60ZSMSD | 911401585401 | RCI60Z SMS PSD |
| RCI60ZSURFSQ | 911401542211 | RCI60Z MB-SURF SQR622x622x65 |
| RCI60ZSURFREC | 911401542311 | RCI60Z MB-SURF REC1222x322x65 |



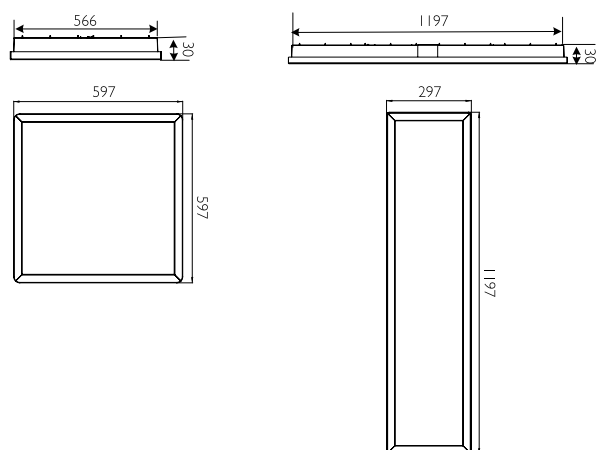
CoreLine LED

CoreLine LED is a stylish range of high output LED luminaires suitable for general office and retail lighting applications. With a longlife LED platform, you can directly replace a conventional 4x18W and/or 2x36W fluorescent system and enjoy lower maintenance costs.



Features and Benefits

- Up to 90lm/W system efficiency with significant energy savings than traditional T5 systems
- LPD>7W/m² with LEED green energy consumption certification of +5
- PC prism panel reduces glare
- Long lifetime of up to 50,000 hours



| Product ID | L (mm) | W (mm) | H (mm) |
|-----------------------|--------|--------|--------|
| RCI00C Rectangle ver. | 1197 | 297 | 30 |
| RCI00C Square ver. | 597 | 597 | 30 |
| SMI00C Rectangle ver. | 1197 | 197 | 30 |
| SMI00C Square ver. | 597 | 597 | 30 |

Dimensions in mm (Nominal)

CORELINE LED

| | |
|------------------------------|---|
| Family Name | Coreline |
| Model | RCI00C - Recessed ver. SMI00C - Surface-mounted ver. |
| Lumen/ Watt | 2600lm/31W - 2x28 / 4x14W T5 replacement 3700lm/40W - 3x28 / 2x35WT5 replacement |
| Lamp Colour | 4000K |
| Colour Rendering Index (CRI) | 80 |
| Flex and Plug | No |
| Lifetime L70* | 50,000 Hours |
| Unified Glare Ratio | 19 - square ver. 22 - rectangle ver. |
| LOR | 1.00 |
| Louvre/Optics | Light guide with diffuser |
| Driver | Integrated driver |
| Dimmable | Compatible with DALI controllers |

| | |
|-----------------------------|---|
| Installation | Recessed: Individual; lay in exposed ceiling grids Surface mounted |
| Classification/IP rating | IP20 |
| IK Rating | n/a |
| Weight (kg) | 3.0 |
| Colour/Materials | Housing: Steel Light cover: Polycarbonate Driver box: Steel |
| Application | General lighting, Office, Corridors, Retail |
| Accessories | NA |
| Suspension Height - min/max | NA |
| Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)



CoreLine LED continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-------------------------------|--------------|-------------------------------|
| CORELINE LED RECESSED MOUNTED | | |
| RCI00C3IW4KFSQ | 911401568901 | RCI00C LED25S/840 PSU W60L60 |
| RCI00C3IW4KFREC | 911401569001 | RCI00C LED25S/840 PSU W30L120 |
| RCI00C3IW4KDSQ | 911401564301 | RCI00C LED25S/840 PSD W60L60 |
| RCI00C3IW4KDREC | 911401568601 | RCI00C LED25S/840 PSD W30L120 |
| RCI00C42W4KFSQ | 911401564201 | RCI00C LED35S/840 PSU W60L60 |
| RCI00C42W4KFREC | 911401564101 | RCI00C LED35S/840 PSU W30L120 |
| RCI00C42W4KDSQ | 911401568501 | RCI00C LED35S/840 PSD W60L60 |
| RCI00C42W4KDREC | 911401568701 | RCI00C LED35S/840 PSD W30L120 |
| CORELINE LED SURFACE MOUNTED | | |
| SMI00C3IW4KFREC | 911401592601 | SMI00C LED25S/840 PSU W20L120 |
| SMI00C3IW4KFSQ | 911401592701 | SMI00C LED25S/840 PSU W60L60 |
| SMI00C42W4KFSQ | 911401592201 | SMI00C LED35S/840 PSU W60L60 |
| SMI00C42W4KFREC | 911401592301 | SMI00C LED35S/840 PSU W20L120 |
| ACCESSORY | | |
| RCI00CSUSPSET | 911401562201 | RCI00C Suspension set |



Smartform LED

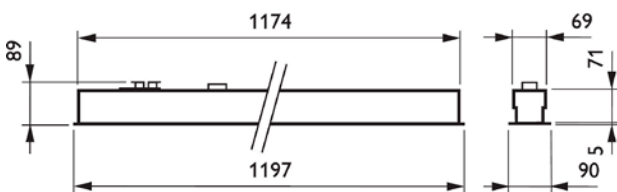
Designed to fit in a wide range of ceiling types, this family of highly versatile modular and semi-modular luminaires can fulfill the majority of project requirements in most applications. SmartForm LED offers higher luminaire efficiency than conventional MLO (micro-lens optic) solutions, enabling significant energy savings. At the same time, its choice of optics ensures a range of inspiring light effects to bring office environments to life.



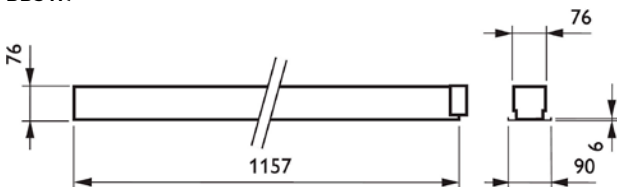
Features and Benefits

- Continuous line and light beam models
- Office compliant (UGR19, CRI 80)
- Inspiring light effects
- High system efficacy with optics innovation
- Aesthetical and novel design with visually better ceiling integration
- Designed to fit in a wide range of ceiling types

BBS411 & BBS415



BBS417



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------------------|--------|------------------------|--------|
| BBS411 | 1197 | 90 | 89 |
| BBS415 | 1197 | 90 | 89 |
| BBS417 | 1157 | 90 | 76 |
| Dimensions in mm (Nominal) | | (H – including driver) | |

Smartform LED continued

| SMARTFORM LED | | | |
|-------------------------------------|--|-----------------------------|---|
| Family name | Smartform LED | Optics | LIN-PC: OLC micro-lens optic in polycarbonate cover MLO-PC: OLC micro-lens optic in polycarbonate cover O-PC: Opal optic in polycarbonate cover |
| Model | BBS411 - Light beam Slim BBS415 - Light beam BBS417 - Continuous Line | Driver | Integrated driver |
| Lumen/Watt | BBS411 - Light beam Slim MLO-PC: 1700lm/ 25W LIN-PC: 2000lm/ 25W BBS415 - Light beam MLO-PC: 1900lm/ 25W LIN-PC: 2000lm/ 25W MLO-PC: 3500lm/ 47W LIN-PC: 4200lm/ 47W BBS417 - Continuous Line MLO-PC: 1700lm/ 25W LIN-PC: 2000lm/ 25W O-PC: 1900lm/ 25W | Dimmable | Fixed output and DALI compatible |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | Installation | Recessed mounting |
| Colour Rendering Index (CRI) | 80 | IP rating | IP40 |
| Flex and Plug | Not included | Weight | BBS411 & BBS415 - 4.5kg - 5kg BBS417 - 3.3kg |
| Lifetime L70* | 50,000hrs | Colour of housing | White, Silver |
| Unified Glare Ratio (UGR) | 19 | Application | Retail, Hospitality, Offices, Schools |
| | | Accessories | Mounting bracket, ZBS415 SMB End caps, ZBS417 EP-S-LED SET |
| | | Suspension Height - min/max | n/a |
| | | Maximum Run Length | n/a |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|---------------------------------|--------------|--|
| SMARTFORM LED - CONTINUOUS LINE | | |
| BBS41725W4KDMLO | 910501965503 | BBS417 LED24/840 PSD W9L120 MLO-PC PI |
| BBS41725W4KDO | 910501965603 | BBS417 LED24/840 PSD W9L120 O-PC PI |
| BBS41725W4KDLIN | 910501965703 | BBS417 LED24/840 PSD W9L120 LIN-PC PI |
| SMARTFORM LED - LIGHT BEAM SLIM | | |
| BBS41125W4KDMLO | 910501964603 | BBS411 LED24/840 PSD W9L120 MLO-PC PI |
| BBS41125W4KDLIN | 910501964803 | BBS411 LED24/840 PSD W9L120 LIN-PC PI |
| SMARTFORM LED - LIGHT BEAM | | |
| BBS41525W4KDMLO | 910501963803 | BBS415 LED24/840 PSD W15L120 MLO-PC PI |
| BBS41525W4KDLIN | 910501964003 | BBS415 LED24/840 PSD W15L120 LIN-PC PI |
| BBS41547W4KDMLO | 910501964203 | BBS415 LED48/840 PSD W15L120 MLO-PC PI |
| BBS41547W4KDLIN | 910501964403 | BBS415 LED48/840 PSD W15L120 LIN-PC PI |



SmartBalance LED

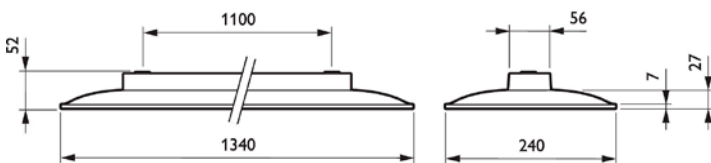
SmartBalance is clearly the next step in surface-mounted and suspended luminaires for the specification market. It not only offers increased energy efficiency, but is also visually appealing without being intrusive. And its design helps to minimize clutter on the ceiling and meets all relevant office norms.



Features and Benefits

- Perfect combination of innovative design and performance
- Energy efficacy of up to 90 lm/W
- Compact, lightweight and unobtrusive
- Office compliant - UGR 19 and two levels of L65, namely 1500/3000 cd/m²
- Aesthetical and novel design with visually better ceiling integration
- Wireless DALI-controllable and emergency lighting options available
- Direct and indirect lighting options available to create the right light levels for visual comfort and performance
- Connect up to 3 luminaires with coupling accessories

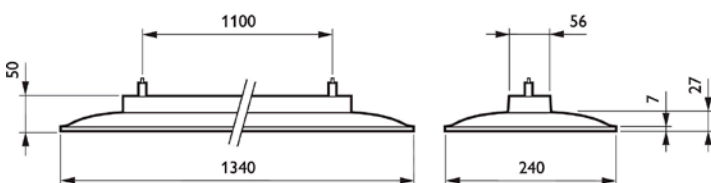
SM480C



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------|--------|--------|--------|
| SM480C | 1340 | 240 | 52 |
| SP480P/ SP482P | 1340 | 240 | 50 |

Dimensions in mm (Nominal) (H – including driver)

SP480P/SP482P





SmartBalance LED continued

| SMARTBALANCE LED | | SMARTBALANCE LED | |
|-------------------------------------|---|-----------------------------|--|
| Family name | SmartBalance | Driver | Integrated driver |
| Model | SM480C - Surface SP480P - Suspended SP482P - Direct/Indirect Suspended | Dimmable | Fixed output and DALI compatible |
| Lumen/Watt | ACC-MLO: 3500lm/ 40W AC/PC-MLO: 3000lm/ 41W Dir/Indir: 4050lm/ 48W | Installation | Surface and Suspended mounting |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | IP rating | IP40 |
| Colour Rendering Index (CRI) | 80 | Weight | SM480C - 4.5kg SP480P - 4.65kg SP482P - 4.55kg |
| Flex and Plug | Not included | Colour of housing | White, Silver |
| Lifetime L70* | 50,000hrs | Application | Retail, Hospitality, Offices, Schools |
| Unified Glare Ratio (UGR) | 19 | Accessories | Coupling pieces (SP480Z CP WH, SP480Z CP SI) |
| Optics | AC-MLO: OLC micro-lens optic made of acrylic cover ACC-MLO: OLC micro-lens optic made of clear acrylic cover PC-MLO: OLC micro-lens optic made of polycarbonate | Suspension Height - min/max | n/a |
| | | Maximum Run Length | n/a |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|------------------------------------|--------------|--|
| SMARTBALANCE LED - SURFACE MOUNTED | | |
| SM480C41W3KDAC | 910504084403 | SM480C LED30S/830 PSD W24LI34 AC-MLO PI |
| SM480C41W3KDPC | 910504084803 | SM480C LED30S/830 PSD W24LI34 PC-MLO PI |
| SM480C40W4KDAC | 910504084303 | SM480C LED30S/840 PSD W24LI34 AC-MLO PI |
| SM480C40W4KDPC | 910504084703 | SM480C LED30S/840 PSD W24LI34 PC-MLO PI |
| SM480C41W3KDACC | 910504084603 | SM480C LED35S/830 PSD W24LI34 ACC-MLO PI |
| SM480C40W4KDACC | 910504083603 | SM480C LED35S/840 PSD W24LI34 ACC-MLO PI |
| SMARTBALANCE LED - SUSPENDED | | |
| SP480P41W3KDAC | 910504085003 | SP480P LED30S/830 PSD W24LI34 AC-MLO SM2 |
| SP480P40W4KDAC | 910504084903 | SP480P LED30S/840 PSD W24LI34 AC-MLO SM2 |
| SP480P41W3KDACC | 910504085203 | SP480P LED35S/830 PSD ACC-MLO SM2 PI |
| SP480P40W4KDACC | 910504083703 | SP480P LED35S/840 PSD ACC-MLO SM2 PI |
| SP480P40W4KDPC | 910504086303 | SP480P LED30S/840 PSD W24LI34 PC-MLO SM2 PI SI |
| SMARTBALANCE LED - DIRECT/INDIRECT | | |
| SP482P48W3KDAC | 910504085403 | SP482P LED40S/830 PSD W24LI34 AC-MLO SM2 |
| SP482P48W4KDAC | 910504085303 | SP482P LED40S/840 PSD W24LI34 AC-MLO SM2 |
| SP482P45W3KDACC | 910504085603 | SP482P LED40S/830 PSD ACC-MLO SM2 PI |
| SP482P43W4KDACC | 910504083803 | SP482P LED40S/840 PSD ACC-MLO SM2 PI |
| SP482P51W3KDPC | 910504085803 | SP482P LED40S/830 PSD W24LI34 PC-MLO SM2 |
| SP482P49W4KDPC | 910504085703 | SP482P LED40S/840 PSD W24LI34 PC-MLO SM2 |
| ACCESSORIES | | |
| SP480ZCPWH | 910403218203 | SP480Z CP WH |
| SP480ZCPSI | 910403218303 | SP480Z CP SI |



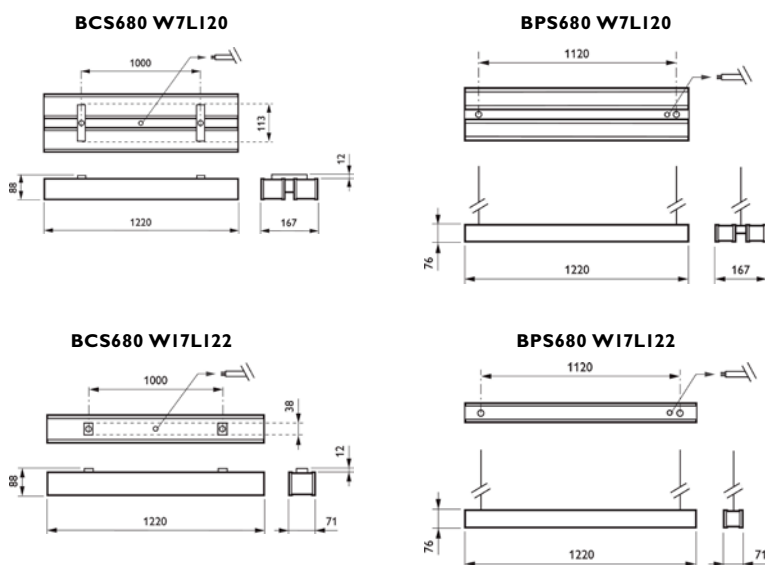
Celino LED

Celino LED is a complete luminaire range that reflects the market trend towards miniaturisation and architectural integration, while delivering a significant advance in optical performance. Made of natural anodised aluminium, the housing of Celino LED is a mere 71mm wide and has die cast- aluminium end caps.



Features and Benefits

- Compliance with latest office - lighting norm
- Complete luminaire range that reflects the trend to miniaturisation and architectural integration
- Excellent optical performance: optical covers for optimum visual comfort and efficiency
- Inspiring: aesthetical and novel design with visually better ceiling integration
- Comfort: spacious and pleasant environment with comfortable lighting appearance
- Efficient: high efficacy achieved with optics innovation



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------------------|--------|--------|------------------------|
| BCS680 W7L120 | 1220 | 167 | 88 |
| BPS680 W7L120 | 1220 | 167 | 76 |
| BCS680 W17L122 | 1220 | 71 | 88 |
| BPS680 W17L122 | 1220 | 71 | 76 |
| Dimensions in mm (Nominal) | | | (H – including driver) |



Celino LED continued

| CELINO LED | | | |
|-------------------------------------|--|-----------------------------|---|
| Family name | Celino LED | Driver | Integrated driver |
| Model | BCS680 - Surface BPS680 - Suspended | Dimmable | Fixed output and DALI compatible |
| Lumen/Watt | LIN-PC: 2050lm/ 23W (3000K) LIN-PC: 2050lm/ 21.5W (4000K) LIN-PC: 4100lm/ 46W (3000K) LIN-PC: 4100lm/ 43W (4000K) MLO-PC: 1650lm/ 23W (3000K) MLO-PC: 1650lm/ 21.5W (4000K) MLO-PC: 3300lm/ 46W (3000K) MLO-PC: 3300lm/ 43W (4000K) | Installation | Surface and Suspended mounting |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | IP rating | IP40 |
| Colour Rendering Index (CRI) | 80 | Weight | W7L120 - 4.2kg W17L120 -7.8kg |
| Flex and Plug | Not included | Colour of housing | Housing: natural anodised aluminium, End caps: die-cast aluminium |
| Lifetime L70* | 50,000hrs | Application | Retail, Hospitality, Offices, Healthcare |
| Unified Glare Ratio (UGR) | 19 | Accessories | n/a |
| Optics | LIN-PC: OLC micro-lens optic in polycarbonate cover MLO-PC: OLC micro-lens optic in polycarbonate cover | Suspension Height - min/max | n/a |
| | | Maximum Run Length | n/a |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|------------------------------|--------------|---|
| CELINO LED - SURFACE MOUNTED | | |
| BSC68022W4KDMLO | 910504074703 | BCS680 LED24/840 PSD W7L122 MLO-PC |
| BSC68022W4KDLIN | 910504074803 | BCS680 LED24/840 PSD W7L122 LIN-PC |
| BSC68043W4KDMLO | 910504074903 | BCS680 LED48/840 PSD W17L122 MLO-PC |
| BSC68043W4KDLIN | 910504075003 | BCS680 LED48/840 PSD W17L122 LIN-PC |
| CELINO LED - SUSPENDED | | |
| BPS68022W4KDMLO | 910504075303 | BPS680 LED24/840 PSD W7L122 MLO-PC SM2 |
| BPS68022W4KDLIN | 910504075403 | BPS680 LED24/840 PSD W7L122 LIN-PC SM2 |
| BSC68043W4KDMLO | 910710101007 | BPS680 LED48/840 PSD W17L122 MLO-PC SM2 |
| BSC68043W4KDLIN | 910710101001 | BPS680 LED48/840 PSD W17L122 LIN-PC SM2 |
| BPS68023W3KDMLO | 910710101002 | BPS680 LED24/830 PSD W7L122 MLO-PC SM2 |
| BPS68023W3KDLIN | 910710042296 | BPS680 LED24/830 PSD W7L122 LIN-PC SM2 |



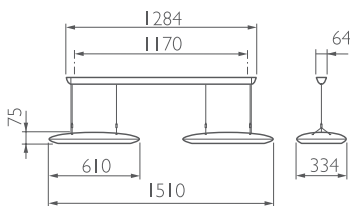
LumiStone LED

LumiStone is a LED luminaire consisting of two smaller ellipses rather than the traditional single voluminous piece. The ellipses have soft curvatures and resemble smooth stones found in nature. The flexible light effects created with direct and indirect light make LumiStone the perfect choice for inspiring lighting designs. Thanks to its cutting edge LED technology, LumiStone is also highly energy efficient, delivering immediate savings on operational costs.



Features and Benefits

- Inspiring design with elliptical modules
- Creates a truly inspiring environment with appealing design and indirect lighting
- Over 50% energy savings compared to a functional luminaire, and even more compared to decorative solutions
- Many variations thanks to innovative mounting options
- Choice of direct and direct/indirect lighting
- Office compliant for use in all office spaces



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------|--------|--------|--------|
| SP524P/ SP526P | 1510 | 334 | 75 |

Dimensions in mm (Nominal)

LumiStone LED continued

| LUMISTONE LED | | | |
|-------------------------------------|--|-----------------------------|---|
| Family name | LumiStone | Driver | Integrated driver |
| Model | SP524P - Direct SP526P - Direct/ Indirect | Dimmable | Fixed output and DALI compatible |
| Lumen/Watt | SP524P - Direct 4000lm/ 40W (3000K) 4000lm/ 38W (4000K) SP526P - Direct/ Indirect 3000lm/ 31W (3000K) 3000lm/ 29W (4000K) | Installation | Suspended mounting |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | IP rating | IP40 |
| Colour Rendering Index (CRI) | 80 | Weight | SP524P - 6.15kg SP526P - 6.25kg |
| Flex and Plug | Not included | Colour of housing | White |
| Lifetime L70* | 50,000hrs | Application | Retail, Hospitality, Offices |
| Unified Glare Ratio (UGR) | 19 | Accessories | Coupling pieces (SP480Z CP WH, SP480Z CP SI) |
| Optics | Poly-carbonate LED cup | Suspension Height - min/max | Between 20 and 150 cm from ceiling bar; cable stored in bar |
| | | Maximum Run Length | n/a |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|---|--------------|--------------------------------|
| LUMISTONE LED - DIRECT LIGHTING | | |
| SP524P31W3KDWH | 910504080403 | SP524P 2xLED15S/830 PSD DCB WH |
| SP524P29W4KDWH | 910504080603 | SP524P 2xLED15S/840 PSD DCB WH |
| LUMISTONE LED - DIRECT/ INDIRECT LIGHTING | | |
| SP524P40W3KDWH | 910504080803 | SP526P 2xLED20S/830 PSD DCB WH |
| SP524P38W4KDWH | 910504081003 | SP526P 2xLED20S/840 PSD DCB WH |

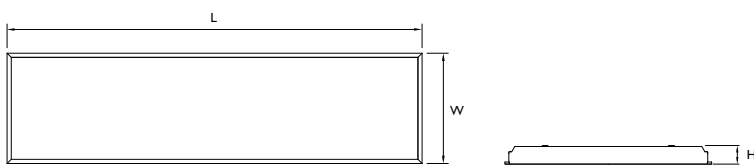
Sereno TBS 299

The TBS299 is a superior energy efficient solution that delivers excellent lighting performance and colour-rendering in any kind of interior application. With its sleek design and availability in 5 different lamp configurations, the TBS299 is the ideal recessed luminaire for all types of office spaces and public buildings.



Features and Benefits

- Rippled louvre reflectors made from high quality pre-anodised aluminium
- External hinged connection device enables easy top installation without the need to detach louvres
- Patented BatWing profiled steel housing substantially enhances distribution uniformity
- Features a high frequency electronic ballast to ensure flicker-free start and low energy consumption
- Complete with flex and plug
- Package includes T5 4000K lamps
- UGR19 - Office norm compliant



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| TBS299/214 | 596 | 296 | 54 |
| TBS299/314 | 596 | 596 | 54 |
| TBS299/414 | 596 | 596 | 54 |
| TBS299/228 | 1196 | 296 | 54 |
| TBS299/328 | 1196 | 596 | 54 |

Dimensions in mm (Nominal)

| TBS299 | | | | |
|----------------------|-------------------------------|--------------------------|---------------------------------|--------------------------------|
| Family name | TBS299 | Louvre/Optics | Matt, ribbed cross louvres (M2) | |
| Lamp types | 2 x 14W 3 x 14W 4 x 14W | 2 x 28W 3 x 28W | Gear/Ballast | HFP – High Frequency Performer |
| Lamps included | Yes – Neutral White – 4000K | Dimmable | Dali on request | |
| Flex and Plug | Yes | Installation | Recessed | |
| Beam angle | n/a | Classification/IP rating | Class I, IP 20 | |
| Office compliant/UGR | Yes - UGR 19 | Colour/Materials | Matt white - Post painted steel | |
| | | Accessories | n/a | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|-----------------------|
| TBS299214W4KFM2 | 911401538201 | TBS2992X14W840HFPM2W3 |
| TBS299314W4KFM2 | 911401538301 | TBS2993X14W840HFPM2W3 |
| TBS299414W4KFM2 | 911401538401 | TBS2994X14W840HFPM2W3 |
| TBS299228W4KFM2 | 910403630654 | TBS2992X28W840HFPM2W3 |
| TBS299328W4KFM2 | 911401538501 | TBS2993X28W840HFPM2W3 |

Sereno TBS 528/869

The Philips TBS 528 and 869 are a range of recessed TL5 luminaires that feature superior optics with Philips patented 3 Dimensional Omni-directional Luminance Control (OLC). This feature provides excellent performance in terms of efficiency, uniformity and glare.

Dimming options available on request



Main Applications:

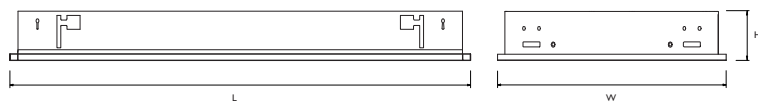
- Conference rooms, Retail and department stores, Schools, Childcare services
- Service Areas (Restaurant, Cafes) Reception and public service areas
- General Office areas and corridors

Choices of Optics:

- M8 for TBS528: Micro comfort optic, Matt finish, LOR up to 64%, UGR 16
- D8-H for TBS869: Micro high efficiency optic, Semi high gloss finish, LOR up to 86%, UGR 17

Main Features:

- Quick external connection without having to remove louvres
- Easy replacement of lamps, only have to remove 1 reflector
- Ultra Flat only 47mm deep
- Perforated infill panel
- Complete with flex & plug
- T5 4000K lamps included



| Product ID | L (mm) | W (mm) | H (mm) |
|-------------|--------|--------|--------|
| 2 x TL5-14W | 595 | 295 | 47 |
| 3 x TL5-14W | 595 | 595 | 47 |
| 4 x TL5-14W | 595 | 595 | 47 |
| 2 x TL5-28W | 1195 | 295 | 47 |
| 3 x TL5-28W | 1195 | 595 | 47 |

Dimensions in mm (Nominal)

Sereno TBS 528/869 continued

| TBS528 | | | | |
|----------------------|--|--------------------|--------------------------|---|
| Family name | TBS528 TBS869 | | Louvre/Optics | TBS528 – Micro Comfort Optic – Matt Finish TBS869 – Micro high efficiency optic – Semi high gloss finish |
| Lamp types | 2 x 14W 3 x 14W 4 x 14W | 2 x 28W 3 x 28W | Gear/Ballast | HFP – High Frequency Performer |
| Lamps included | Yes – Neutral White 4000K | | Dimmable | Dali on request |
| Flex and Plug | Yes | | Installation | Recessed |
| Beam angle | n/a | | Classification/IP rating | IP20 |
| Office compliant/UGR | Yes – TBS528 – UGR16 Yes – TBS869 – UGR17 | | Colour/Materials | Housing: Post painted sheet steel in white |
| | | | Accessories | n/a |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|------------------------|
| TBS 528 | | |
| TBS528214W4KFM8 | 910403390501 | TBS5282X14W840HFPM8W3 |
| TBS528228W4KFM8 | 910403390301 | TBS5282X28W840HFPM8W3 |
| TBS 869 | | |
| TBS8693144KFD8H | 910403391901 | TBS8693X14W840HFPD8HW3 |
| TBS8694144KFD8H | 911400699780 | TBS8694X14W840HFPD8HW3 |
| TBS8691284KFD8H | 910403630652 | TBS8691X28W840HFPD8HW3 |
| TBS8692284KFD8H | 911400699880 | TBS8692X28W840HFPD8HW3 |
| TBS869128WDD8H | 910403630653 | TBS8691X28WHFDD8HW3 |

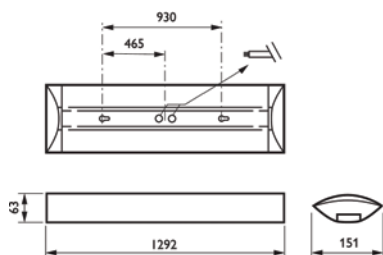
Modella TCS I25

Modella TCSI25 is a luminaire for TL-D and TL5 linear fluorescent lamps with an attractive design to suit all interiors. It comes with a choice of smooth, easy-to-clean opal or prismatic covers. The covers can be suspended from the end caps to allow easy lamp replacement without the need for any tools.



Features and Benefits

- Luminaire for TL-D and TL5 fluorescent lamps with an attractive design that blends in perfectly with all interiors
- Choice of smooth, easy-to-clean opal or prismatic covers
- Covers can be suspended from the end caps for easy lamp replacement with no need to use any tools
- TL5 4000K lamps included
- Choice of opal or prismatic covers
- Tool-less lamp replacement
- Suitable for: Offices, Retail, Hospitality and Industry



| Product ID | L (mm) | W – fitting (mm) | W – mounting bracket (mm) |
|------------|--------|------------------|---------------------------|
| TCSI25 | 1292 | 151 | 63 |

Dimensions in mm (Nominal)

| MODELLA | | | |
|----------------------|-------------------------------|--------------------------|---|
| Family name | TCSI25 | Gear/Ballast | Integrated |
| Lamp types | 2x28W 2x54W | Dimmable | n/a |
| Lamps included | Yes – Neutral White 4000K | Installation | Individual; screw ceiling mounting |
| Flex and Plug | n/a | Classification/IP rating | IP20 |
| Beam angle | n/a | Colour/Materials | Housing: powder painted steel, white End Caps: plastic, white Cover: opal or prismatic, internally ribbed |
| Office compliant/UGR | n/a | Accessories | n/a |
| Louvre/Optics | Opal cover Prismatic cover | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|---|
| TCSI252X28W4KO | 910402425612 | TCSI25 2Xtl5-28W/840 HFP Opal diffuser |
| TCSI252X28W4KP | 910402425712 | TCSI25 2Xtl5-28W/840 HFP Prismatic diffuser |
| TCSI252X54W4KO | 910402435312 | TCSI25 2Xtl5-54W/840 HFP Opal diffuser |
| TCSI252X54W4KP | 910402435412 | TCSI25 2Xtl5-54W/840 HFP Prismatic diffuser |



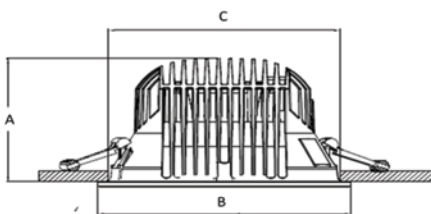
LuxSpace Gen III

Our highly energy-efficient LuxSpace family has now received a major upgrade, in the form of an improved system efficacy. The extremely low power consumption of this LED solution results in significant energy savings compared with traditional CFL downlights. There is also a range of different sizes and outputs, and an array of different accessories, ensuring maximum flexibility in customising the right light effect for your application. Best of all, this family of luminaires delivers specification grade performance, including a DALI dimming system, IP54 ingress protection (front part) and better glare control than ever before. These innovative downlights are ideal for applications in offices, shops, hotels and hospitals where an energy efficient general lighting solution is needed.



Features and Benefits

- Features the latest LED technology to deliver high system efficacy, resulting in up to 80% energy savings compared with conventional CFL downlights.
- Realises specification grade standards in visual comfort, performance and consistent colour rendering:
 - Better colour rendering: CRI80;
 - Better colour consistency.
- Provides more flexibility with a full range and different accessories.
- Compact curved design gives the luminaire a professional look.



| Product ID | A (mm) | B (mm) | C (mm) |
|------------------------------|--------|--------|--------|
| Micro - DN478 | 71 | ø137 | ø125 |
| Mini - DN488/ DN489 | 88.5 | ø163 | ø150 |
| Compact - DN486/ DN487 | 88.5 | ø163 | ø150 |
| Compact Power - DN498/ DN499 | 119.5 | ø218.3 | ø200 |

Dimensions in mm (Nominal)

LUXSPACE GEN III

| | | | |
|-------------|---|-------------------------------------|----------------------|
| Family name | LuxSpace Gen III | Correlated Colour Temperature (CCT) | 3000K, 4000K |
| Model | UGR 22 Range Micro - DN478 Mini - DN488 Compact - DN486 Compact Power - DN498 UGR 19 Range Mini - DN489 Compact - DN487 Compact Power - DN499 | Colour Rendering Index (CRI) | 80 |
| Lumen/ Watt | 3000K Micro - 8.5W/ 600lm Mini - 12W/ 960lm Compact - 18W/ 1450lm Compact Power -23W/ 1900lm 4000K Micro - 8.5W/ 640lm Mini - 12W/ 1000lm Compact - 18W/ 1500lm Compact Power -23W/ 2000lm | Flex and Plug | Yes |
| | | Lifetime L70* | 50,000hrs |
| | | Unified Glare Ratio (UGR) | 19, 22 |
| | | Driver | External DALI driver |

* = When the fitting reaches 70% of full potential (new)



LuxSpace Gen III continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|--|--------------|----------------------------------|
| LUXSPACE 3 MICRO RECESSED DOWNLIGHT, UGR22 | | |
| DN4789W3KDWHG | 911401800099 | DN478 1xDLED-3000 PSD-E C WH CAU |
| DN4789W3KDWHM | 911401800399 | DN478 1xDLED-3000 PSD-E M WH CAU |
| DN4789W4KDWHG | 911401800199 | DN478 1xDLED-4000 PSD-E C WH CAU |
| DN4789W4KDWHM | 911401800299 | DN478 1xDLED-4000 PSD-E M WH CAU |
| LUXSPACE 3 MINI RECESSED DOWNLIGHT, UGR19 | | |
| DN48912W3KDWHG | 911401801299 | DN489 1xDLED-3000 PSD-E C WH CAU |
| DN48912W3KDWHM | 911401801099 | DN489 1xDLED-3000 PSD-E M WH CAU |
| DN48912W4KDWHG | 911401801199 | DN489 1xDLED-4000 PSD-E C WH CAU |
| DN48912W4KDWHM | 911401801399 | DN489 1xDLED-4000 PSD-E M WH CAU |
| LUXSPACE 3 MINI RECESSED DOWNLIGHT, UGR22 | | |
| DN48812W3KDWHG | 911401800999 | DN488 1xDLED-3000 PSD-E C WH CAU |
| DN48812W3KDWHM | 911401800599 | DN488 1xDLED-3000 PSD-E M WH CAU |
| DN48812W4KDWHG | 911401800499 | DN488 1xDLED-4000 PSD-E C WH CAU |
| DN48812W4KDWHM | 911401800799 | DN488 1xDLED-4000 PSD-E M WH CAU |
| LUXSPACE 3 COMPACT RECESSED DOWNLIGHT, UGR19 | | |
| DN48718W3KDWHG | 911401802599 | DN487 1xDLED-3000 PSD-E C WH CAU |
| DN48718W3KDWHM | 911401802299 | DN487 1xDLED-3000 PSD-E M WH CAU |
| DN48718W4KDWHG | 911401802399 | DN487 1xDLED-4000 PSD-E C WH CAU |
| DN48718W4KDWHM | 911401802499 | DN487 1xDLED-4000 PSD-E M WH CAU |
| LUXSPACE 3 COMPACT RECESSED DOWNLIGHT, UGR22 | | |
| DN48618W3KDWHG | 911401801999 | DN486 1xDLED-3000 PSD-E C WH CAU |
| DN48618W3KDWHM | 911401802099 | DN486 1xDLED-3000 PSD-E M WH CAU |
| DN48618W4KDWHG | 911401801899 | DN486 1xDLED-4000 PSD-E C WH CAU |
| DN48618W4KDWHM | 911401802199 | DN486 1xDLED-4000 PSD-E M WH CAU |
| LUXSPACE 3 COMPACT POWER RECESSED DOWNLIGHT, UGR19 | | |
| DN49923W3KDWHG | 911401801599 | DN499 1xDLED-3000 PSD-E C WH CAU |
| DN49918W3KDWHM | 911401801799 | DN499 1xDLED-3000 PSD-E M WH CAU |
| DN49918W4KDWHG | 911401801699 | DN499 1xDLED-4000 PSD-E C WH CAU |
| DN49918W4KDWHM | 911401801499 | DN499 1xDLED-4000 PSD-E M WH CAU |
| LUXSPACE 3 COMPACT POWER RECESSED DOWNLIGHT, UGR22 | | |
| DN49823W3KDWHG | 911401802899 | DN498 1xDLED-3000 PSD-E C WH CAU |
| DN49823W3KDWHM | 911401802999 | DN498 1xDLED-3000 PSD-E M WH CAU |
| DN49823W4KDWHG | 911401802699 | DN498 1xDLED-4000 PSD-E C WH CAU |
| DN49823W4KDWHM | 911401802799 | DN498 1xDLED-4000 PSD-E M WH CAU |

LuxSpace Gen III - Accessories



Drop glass frosted middle
SG-FRC



Embedded frosted middle
GF-HR



Drop glass mattel bezel
SG-HR-FR



White adaptor ring
CFRM WH



Drop glass opal finish
SG-O



Grey adaptor ring
CFRM GR



Embedded frosted glass
GF



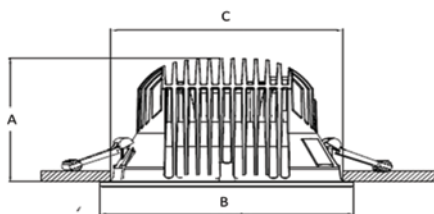
LuxSpace Gen III - IP54

Our highly energy-efficient LuxSpace family has now received a major upgrade, in the form of an improved system efficacy. The extremely low power consumption of this LED solution results in significant energy savings compared with traditional CFL downlights. There is also a range of different sizes and outputs, and an array of different accessories, ensuring maximum flexibility in customising the right light effect for your application. Best of all, this family of luminaires delivers specification grade performance, including a DALI dimming system, IP54 ingress protection (front part) and better glare control than ever before. These innovative downlights are ideal for applications in offices, shops, hotels and hospitals where an energy efficient general lighting solution is needed.



Features and Benefits

- Features the latest LED technology to deliver high system efficacy, resulting in up to 80% energy savings compared with conventional CFL downlights.
- Realises specification grade standards in visual comfort, performance and consistent colour rendering:
 - Better colour rendering: CRI80;
 - Better colour consistency.
- Provides more flexibility with a full range and different accessories.
- Compact curved design gives the luminaire a professional look.



| Product ID | A (mm) | B (mm) | C (mm) |
|--------------------------|--------|--------|--------|
| Micro - DN478 PG | 71 | ø137 | ø125 |
| Mini - DN488 PG | 88.5 | ø163 | ø150 |
| Compact Power - DN498 PG | 119.5 | ø218.3 | ø200 |

Dimensions in mm (Nominal)



LuxSpace Gen III - IP54 continued

| LUXSPACE GEN III - IP54 | | | |
|-------------------------------------|---|-----------------------------|--|
| Family name | LuxSpace Gen III - IP54 | Unified Glare Ratio (UGR) | 22 |
| Model | Micro - DN478 PG Mini - DN488 PG Compact Power - DN498 PG | Driver | External Fixed driver |
| Lumen/ Watt | 3000K Micro - 7W/ 600lm Mini - 10W/ 960lm Compact Power -20W/ 1900lm 4000K Micro - 7W/ 640lm Mini - 10W/ 1000lm Compact Power -20W/ 2000lm | Dimmable | No, fixed output only |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | Installation | Recessed mounting with flexible spring clips |
| Colour Rendering Index (CRI) | 80 | IP rating | IP54 (front cover only) |
| Flex and Plug | Yes | Colour of housing | White |
| Lifetime L70* | 50,000hrs | Application | Retail, Hospitality, Offices |
| | | Accessories | Adaptor ring (White/Grey) |
| | | Reflector | Glossy |
| | | Suspension Height - min/max | n/a |
| | | Maximum Run Length | n/a |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|--|--------------|-------------------------------------|
| LUXSPACE 3 MICRO RECESSED IP54 DOWNLIGHT | | |
| DN4787W3KDWHGP | 911401803299 | DN478 1xDLED-3000 PSU-E C WH PG CAU |
| DN4787W4KDWHGP | 911401803399 | DN478 1xDLED-4000 PSU-E C WH PG CAU |
| LUXSPACE 3 MINI RECESSED IP54 DOWNLIGHT | | |
| DN48810W3KDWHGP | 911401803499 | DN488 1xDLED-3000 PSU-E C WH PG CAU |
| DN48810W4KDWHGP | 911401803599 | DN488 1xDLED-4000 PSU-E C WH PG CAU |
| LUXSPACE 3 COMPACT POWER RECESSED IP54 DOWNLIGHT | | |
| DN49820W3KDWHGP | 911401803699 | DN498 1xDLED-3000 PSU-E C WH PG CAU |
| DN49820W4KDWHGP | 911401803799 | DN498 1xDLED-4000 PSU-E C WH PG CAU |



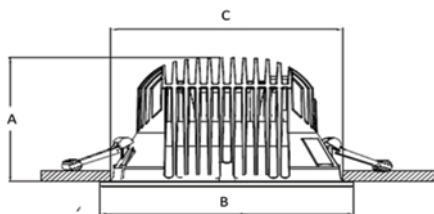
LuxSpace Gen III Wall-wash

Our highly energy-efficient LuxSpace family has now received a major upgrade, in the form of an improved system efficacy. The extremely low power consumption of this LED solution results in significant energy savings compared with traditional CFL downlights. There is also a range of different sizes and outputs, and an array of different accessories, ensuring maximum flexibility in customising the right light effect for your application. Best of all, this family of luminaires delivers specification grade performance, including a DALI dimming system, IP54 ingress protection (front part) and better glare control than ever before. These innovative downlights are ideal for applications in offices, shops, hotels and hospitals where an energy efficient general lighting solution is needed.



Features and Benefits

- Features the latest LED technology to deliver high system efficacy, resulting in up to 80% energy savings compared with conventional CFL downlights.
- Realises specification grade standards in visual comfort, performance and consistent colour rendering:
 - Better colour rendering: CRI80;
 - Better colour consistency.
- Provides more flexibility with a full range and different accessories.
- Compact curved design gives the luminaire a professional look.



| Product ID | A (mm) | B (mm) | C (mm) |
|---------------------------|--------|--------|--------|
| Mini - DN488 M-A | 88.5 | ø163 | ø150 |
| Compact Power - DN498 M-A | 119.5 | ø218.3 | ø200 |

Dimensions in mm (Nominal)



LuxSpace Gen III Wall-wash continued

| LUXSPACE GEN III WALL-WASH | | | |
|-------------------------------------|---|-----------------------------|--|
| Family name | LuxSpace Gen III Wall-wash | Driver | External DALI driver |
| Model | Mini - DN488 M-A Compact Power - DN498 M-A | Dimmable | DALI Compatible |
| Lumen/ Watt | 3000K Mini - 12W/ 960lm Compact Power -23W/ 1900lm 4000K Mini - 12W/ 1000lm Compact Power -23W/ 2000lm | Installation | Recessed mounting with flexible spring clips |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | IP rating | IP20 |
| Colour Rendering Index (CRI) | 80 | Colour of housing | White |
| Flex and Plug | Yes | Application | Retail, Hospitality, Offices |
| Lifetime L70* | 50,000hrs | Accessories | Adaptor ring (White/Grey) |
| Unified Glare Ratio (UGR) | 22 | Reflector | Matt |
| | | Suspension Height - min/max | n/a |
| | | Maximum Run Length | n/a |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|---|--------------|------------------------------------|
| LUXSPACE 3 MINI RECESSED WALL-WASH DOWNLIGHT | | |
| DN48812W3KDWBMW | 911401800899 | DN488 1xDLED-3000 PSD-E M-A WH CAU |
| DN48812W4KDWBMW | 911401800699 | DN488 1xDLED-4000 PSD-E M-A WH CAU |
| LUXSPACE 3 COMPACT POWER RECESSED WALL-WASH DOWNLIGHT | | |
| DN49823W3KDWBMW | 911401803099 | DN498 1xDLED-3000 PSD-E M-A WH CAU |
| DN49823W4KDWBMW | 911401803199 | DN498 1xDLED-4000 PSD-E M-A WH CAU |



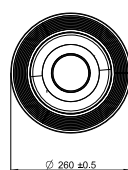
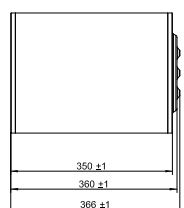
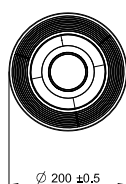
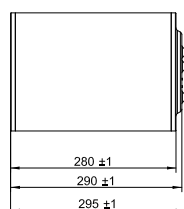
LuxSpace Gen II - Surface Mounted

LuxSpace Surface-mounted is designed for general lighting applications in offices and retail outlets. It features the latest LED technology, resulting in low power consumption compared to a typical CFL downlight, and delivers consistent light output, stable colour performance and high colour rendering. It is available in Mini and Compact versions. All offer a compact look and feel, and a perfect fit. They are very easy to install, and their long lifetime means an end to the hassle of relamping.



Features and Benefits

- Glare control (reflector optic)
- Good colour consistency and high colour rendering; extra sparkle
- Extremely long lifetime: more than five times longer than CFL lamps



| Product ID | Height (mm) | Cutout (mm) |
|------------------|-------------|-------------|
| Mini - BCS488 | 295 | 200 |
| Compact - BCS498 | 366 | 260 |

Dimensions in mm (Nominal)



LuxSpace Gen II - Surface Mounted continued

LUXSPACE GEN II - SURFACE MOUNTED

| | | | |
|-------------------------------------|--|-----------------------------|-------------------------------|
| Family Name | LuxSpace Gen II - Surface Mounted | Unified Glare Ratio (UGR) | 22 |
| Model | Mini - BCS488 Compact - BCS498 | Driver | External Fixed or DALI driver |
| Lumen/ Watt | 3000K Mini - 1000lm/ 13W Compact - 2000lm/ 27W 4000K Mini - 1100lm/ 13W Compact - 2200lm/ 27W | Dimmable | Yes, DALI compatible dimming |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | Installation | Surface mounted |
| Colour Rendering Index (CRI) | 80 | IP rating | IP20 |
| Flex and Plug | No | Colour of housing | White |
| Lifetime L70* | 50,000 hrs | Application | Retail, Hospitality, Offices |
| | | Accessories | N/A |
| | | Reflector | Glossy |
| | | Suspension Height - min/max | N/A |
| | | Maximum Run Length | N/A |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|--|--------------|---------------------------------|
| LUXSPACE MINI SURFACE MOUNTED DOWNLIGHT | | |
| BCS48813W3KDWHG | 911401535701 | BCS488 C 1xDLED-3000 PSD-E C WH |
| BCS48813W4KDWHG | 911401535001 | BCS488 C 1xDLED-4000 PSD-E C WH |
| LUXSPACE COMPACT SURFACE MOUNTED DOWNLIGHT | | |
| BCS49827W3KDWHG | 911401535301 | BCS498 C 1xDLED-3000 PSD-E C WH |
| BCS49827W4KDWHG | 911401535401 | BCS498 C 1xDLED-4000 PSD-E C WH |



GreenAccent Gen II

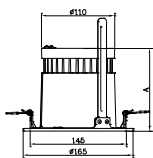
The new GreenAccent LED accent luminaire has a refined finish, and the 4 different mounting options make it possible to address an environment's accent lighting needs while retaining the same visual concept. With optimized service life in the segment and high energy efficiency, it allows the replacement of traditional metal vapour lamp systems with high quality lighting and faithful colour rendering.



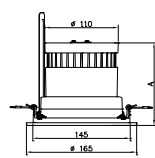
Features and Benefits

- Professional optical design to ensure beam quality and outstanding 'PUNCH' effect
- Constant colour consistency and colour homogeneity over the lifetime
- Equivalent to 35W, 70W CDM solution, energy saving up to 35%
- Optimized heat sink design, enabling 40k hrs long lifetime
- Multiple types to choose from, creating ideal shop lighting environments

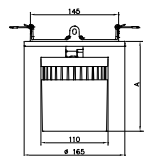
RS280B



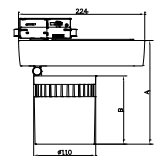
RS281B



ST281C



ST281T



| Product ID | Depth (mm) | Width (mm) | Cutout (mm) |
|--------------|------------|------------|-------------|
| RS280B 26.5W | 125 | 145 | ø165 |
| RS280B 54W | 120 | 145 | ø165 |
| RS281B 26.5W | 125 | 145 | ø165 |
| RS281B 54W | 120 | 145 | ø165 |
| ST281C 26.5W | 147 | 110 | ø165 |
| ST281C 54W | 142 | 110 | ø165 |
| ST281T 26.5W | 184 | 110 | ø110 |
| ST281T 54W | 179 | 110 | ø110 |

Dimensions in mm (Nominal)

GREENACCENT GEN II

| | | | |
|-------------------------------------|---|-----------------------------|---|
| Family Name | GreenAccent Gen II | Driver | External driver |
| Model | RS280B - Recessed Fixed RS281B - Recessed Adjustable ST281C - Semi-recessed ST281T - Track | Dimmable | Fixed output (Dali dimming available on request) |
| Lumen/ Watt | 1750lm/ 26.5W (3000K) 1900lm/ 26.5W (4000K) 3700lm/ 54W (3000K) 3900lm/ 54W (4000K) | Installation | Recessed fixed, Recessed adjustable, Semi-Recessed, Track |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | IP rating | IP20 |
| Colour Rendering Index (CRI) | 80 | Weight | RS280B/ RS281B - 1.2kg ST281C/ ST281T - 1.1kg |
| Flex and Plug | Not included (available on request) | Colour of housing | Recessed fixed/ Recessed adjustable - White only Semi-recessed/ Track - White, Black |
| Lifetime L70* | 40,000hrs | Application | Retail, Hospitality, Offices |
| Unified Glare Ratio (UGR) | 11 - 15 | Accessories | Smart Tracks |
| Optics | Vacuum aluminium plating on PC reflector, 54W version - anti-reflection coating glass applied | Suspension Height - min/max | NA |
| | | Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)



GreenAccent Gen II continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-------------------------------------|--------------|------------------------------|
| GREENACCENT II LED20 SEMI-RECESSED | | |
| ST28IC27W3KFWHM | 911401700062 | ST28IC LED20/830 PSU-E MB WH |
| ST28IC27W3KFWHW | 911401700072 | ST28IC LED20/830 PSU-E WB WH |
| ST28IC27W3KFWHN | 911401700052 | ST28IC LED20/830 PSU-E NB WH |
| ST28IC27W3KFBKM | 911401700122 | ST28IC LED20/830 PSU-E MB BK |
| ST28IC27W3KFBKW | 911401700132 | ST28IC LED20/830 PSU-E WB BK |
| ST28IC27W3KFBKN | 911401700112 | ST28IC LED20/830 PSU-E NB BK |
| ST28IC27W4KFWHM | 911401700092 | ST28IC LED20/840 PSU-E MB WH |
| ST28IC27W4KFWHW | 911401700102 | ST28IC LED20/840 PSU-E WB WH |
| ST28IC27W4KFWHN | 911401700082 | ST28IC LED20/840 PSU-E NB WH |
| ST28IC27W4KFBKW | 911401700162 | ST28IC LED20/840 PSU-E WB BK |
| ST28IC27W4KFBKM | 911401700152 | ST28IC LED20/840 PSU-E MB BK |
| ST28IC27W4KFBKN | 911401700142 | ST28IC LED20/840 PSU-E NB BK |
| GREENACCENT II LED40 SEMI-RECESSED | | |
| ST28IC54W3KFBKW | 911401700532 | ST28IC LED40/830 PSU-E WB BK |
| ST28IC54W3KFBKM | 911401700522 | ST28IC LED40/830 PSU-E MB BK |
| ST28IC54W3KFBKN | 911401700472 | ST28IC LED40/830 PSU-E NB BK |
| ST28IC54W3KFWHW | 911401700452 | ST28IC LED40/830 PSU-E WB WH |
| ST28IC54W3KFWHM | 911401700442 | ST28IC LED40/830 PSU-E MB WH |
| ST28IC54W3KFWHN | 911401700412 | ST28IC LED40/830 PSU-E NB WH |
| ST28IC54W4KFBKW | 911401700512 | ST28IC LED40/840 PSU-E WB BK |
| ST28IC54W4KFBKM | 911401700492 | ST28IC LED40/840 PSU-E MB BK |
| ST28IC54W4KFBKN | 911401700502 | ST28IC LED40/840 PSU-E NB BK |
| ST28IC54W4KFWHW | 911401700422 | ST28IC LED40/840 PSU-E WB WH |
| ST28IC54W4KFWHM | 911401700462 | ST28IC LED40/840 PSU-E MB WH |
| ST28IC54W4KFWHN | 911401700432 | ST28IC LED40/840 PSU-E NB WH |
| GREENACCENT II LED20 RECESSED FIXED | | |
| RC280B27W3KFWHM | 911401799601 | RS280B LED20/830 PSU-E MB WH |
| RC280B27W3KFWHW | 911401799701 | RS280B LED20/830 PSU-E WB WH |
| RC280B27W3KFWHN | 911401799501 | RS280B LED20/830 PSU-E NB WH |
| RC280B27W4KFWHW | 911401535311 | RS280B LED20/840 PSU-E WB WH |
| RC280B27W4KFWHM | 911401799901 | RS280B LED20/840 PSU-E MB WH |
| RC280B27W4KFWHN | 911401799801 | RS280B LED20/840 PSU-E NB WH |
| GREENACCENT II LED40 RECESSED FIXED | | |
| RC280B54W3KFWHM | 911401700302 | RS280B LED40/830 PSU-E MB WH |
| RC280B54W3KFWHW | 911401700332 | RS280B LED40/830 PSU-E WB WH |
| RC280B54W3KFWHN | 911401700292 | RS280B LED40/830 PSU-E NB WH |
| RC280B54W4KFWHW | 911401700342 | RS280B LED40/840 PSU-E WB WH |
| RC280B54W4KFWHM | 911401700322 | RS280B LED40/840 PSU-E MB WH |
| RC280B54W4KFWHN | 911401700312 | RS280B LED40/840 PSU-E NB WH |



GreenAccent Gen II continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|--|--------------|---------------------------------|
| GREENACCENT II LED20 RECESSED ADJUSTABLE | | |
| RC28IB27W3KFWHM | 911401799401 | RS28IB LED20/830 PSU-E MB WH |
| RC28IB27W3KFWHW | 911401700012 | RS28IB LED20/830 PSU-E WB WH |
| RC28IB27W3KFWHN | 911401700002 | RS28IB LED20/830 PSU-E NB WH |
| RC28IB27W4KFWHM | 911401700032 | RS28IB LED20/840 PSU-E MB WH |
| RC28IB27W4KFWHW | 911401700042 | RS28IB LED20/840 PSU-E WB WH |
| RC28IB27W4KFWHN | 911401700022 | RS28IB LED20/840 PSU-E NB WH |
| GREENACCENT II LED40 RECESSED ADJUSTABLE | | |
| RC28IB54W3KFWHW | 911401700392 | RS28IB LED40/830 PSU-E WB WH |
| RC28IB54W3KFWHM | 911401700382 | RS28IB LED40/830 PSU-E MB WH |
| RC28IB54W3KFWHN | 911401700352 | RS28IB LED40/830 PSU-E NB WH |
| RC28IB54W4KFWHW | 911401700372 | RS28IB LED40/840 PSU-E WB WH |
| RC28IB54W4KFWHM | 911401700362 | RS28IB LED40/840 PSU-E MB WH |
| RC28IB54W4KFWHN | 911401700402 | RS28IB LED40/840 PSU-E NB WH |
| GREENACCENT II LED20 TRACK | | |
| ST28IT27W3KFWHM | 911401700182 | ST28IT LED20/830 PSU-E MB IC WH |
| ST28IT27W3KFWHW | 911401700192 | ST28IT LED20/830 PSU-E WB IC WH |
| ST28IT27W3KFWHN | 911401700172 | ST28IT LED20/830 PSU-E NB IC WH |
| ST28IT27W3KFBKM | 911401700232 | ST28IT LED20/830 PSU-E MB IC BK |
| ST28IT27W3KFBKW | 911401700242 | ST28IT LED20/830 PSU-E WB IC BK |
| ST28IT27W3KFBKN | 911401700252 | ST28IT LED20/830 PSU-E NB IC BK |
| ST28IT27W4KFWHW | 911401700212 | ST28IT LED20/840 PSU-E WB IC WH |
| ST28IT27W4KFWHM | 911401700222 | ST28IT LED20/840 PSU-E MB IC WH |
| ST28IT27W4KFWHN | 911401700202 | ST28IT LED20/840 PSU-E NB IC WH |
| ST28IT27W4KFBKW | 911401700262 | ST28IT LED20/840 PSU-E WB IC BK |
| ST28IT27W4KFBKM | 911401700282 | ST28IT LED20/840 PSU-E MB IC BK |
| ST28IT27W4KFBKN | 911401700272 | ST28IT LED20/840 PSU-E NB IC BK |
| GREENACCENT II LED40 TRACK | | |
| ST28IT54W3KFBKM | 911401700642 | ST28IT LED40/830 PSU-E MB IC BK |
| ST28IT54W3KFBKW | 911401700602 | ST28IT LED40/830 PSU-E WB IC BK |
| ST28IT54W3KFBKN | 911401700592 | ST28IT LED40/830 PSU-E NB IC BK |
| ST28IT54W3KFWHM | 911401700552 | ST28IT LED40/830 PSU-E MB IC WH |
| ST28IT54W3KFWHW | 911401700542 | ST28IT LED40/830 PSU-E WB IC WH |
| ST28IT54W3KFWHN | 911401700482 | ST28IT LED40/830 PSU-E NB IC WH |
| ST28IT54W4KFBKM | 911401700622 | ST28IT LED40/840 PSU-E MB IC BK |
| ST28IT54W4KFBKW | 911401700612 | ST28IT LED40/840 PSU-E WB IC BK |
| ST28IT54W4KFBKN | 911401700632 | ST28IT LED40/840 PSU-E NB IC BK |
| ST28IT54W4KFWHM | 911401700562 | ST28IT LED40/840 PSU-E MB IC WH |
| ST28IT54W4KFWHW | 911401700572 | ST28IT LED40/840 PSU-E WB IC WH |
| ST28IT54W4KFWHN | 911401700582 | ST28IT LED40/840 PSU-E NB IC WH |



GreenAccent Gen II continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-------------------|--------------|--------------------|
| TRACK ACCESSORIES | | |
| RCSI70IMBK | 911400893780 | RCSI70 3C LI000 BK |
| RCSI70IMGR | 911400893880 | RCSI70 3C LI000 GR |
| RCSI70IMWH | 911400893980 | RCSI70 3C LI000 WH |
| RCSI702MBK | 911400894080 | RCSI70 3C L2000 BK |
| RCSI702MGR | 911400894180 | RCSI70 3C L2000 GR |
| RCSI702MWH | 911400894280 | RCSI70 3C L2000 WH |
| ZCSI70ICPBK | 911400894380 | ZCSI70 3C ICP BK |
| ZCSI70ICPGR | 911400894480 | ZCSI70 3C ICP GR |
| ZCSI70ICPWH | 911400894580 | ZCSI70 3C ICP WH |
| ZCSI70LCPBK | 911400894680 | ZCSI70 3C LCP BK |
| ZCSI70LCPGR | 911400894780 | ZCSI70 3C LCP GR |
| ZCSI70LCPWH | 911400894880 | ZCSI70 3C LCP WH |
| ZCSI70TCPBK | 911400894980 | ZCSI70 3C TCP BK |
| ZCSI70TCPGR | 911400895080 | ZCSI70 3C TCP GR |
| ZCSI70TCPWH | 911400895180 | ZCSI70 3C TCP WH |



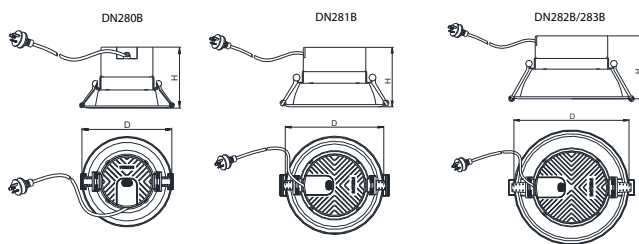
GreenSpace Gen III

GreenSpace is an optimised LED downlight. Featuring a simple yet robust integrated design and high system efficacy, it offers customers a sustainable solution with a return on investment within one to three years. It conforms to general lighting norms for offices, shops and other indoor applications. GreenSpace also offers very good colour rendering, while a diffuser cover ensures superior uniformity and glare control. Its long lifetime makes it a true 'fit and forget' solution. This optimised downlight can be used in environments requiring a 'green' general lighting solution, for instance offices, shops, hotels and hospitals.



Features and Benefits

- Light efficacy of up to 93lm/w
- Uniform and diffused lighting effect
- Improved PMMA material; higher diffusion rate
- Superior heat sink design
- Superior solution for retrofitting
- Long lifetime: 50,000 hours



| Product ID | Depth (mm) | Height (mm) | Cutout (mm) |
|-------------------------------------|------------|-------------|-------------|
| DN280B (White) | 139 | 96 | ø105 - 110 |
| DN280B (Aluminium) | 121 | 94 | ø105 - 110 |
| DN281B (White) | 187 | 103 | ø150 - 155 |
| DN281B (Aluminium) | 170 | 103 | ø150 - 155 |
| DN282B/ DN283B (White/ Aluminium) | 234 | 117 | ø200 - 205 |
| DN280Z Adaptor Ring (White) | 138 | | |
| DN281Z Adaptor Ring (White) | 185 | | |
| DN282Z/ DN283Z Adaptor Ring (White) | 249 | | |

Dimensions in mm (Nominal)

| GREENSPACE GEN III | | | |
|-------------------------------------|---|-----------------------------|---|
| Family Name | GreenSpace Gen III | Lifetime L70* | 50,000hrs |
| Model | DN280B - Micro DN281B - Mini DN282B - Compact DN283B - Compact Power | Unified Glare Ratio (UGR) | ≥23-25 |
| Lumen/ Watt | R-Series (White) DN280B - 600lm/ 7W DN281B - 1050lm/ 11.6W DN282B - 1550lm/ 17.4W DN283B - 2100lm/ 23W O-Series (Aluminium) DN280B ALU - 600lm/ 7W DN281B ALU PR - 550lm/ 6W DN281B ALU - 1000lm/ 11.6W DN282B ALU - 1500lm/ 17.4W DN283B ALU - 2000lm/ 23W | Dimmable | Non-dimmable. Fixed output only. |
| Correlated Colour Temperature (CCT) | 3000K, 4000K | Installation | Recessed mounting with flexible spring clips |
| Colour Rendering Index (CRI) | 83 | IP rating | IP20 |
| Flex and Plug | Yes | Weight | DN280B - 0.18kg DN281B - 0.28kg DN282B/ DN283B - 0.38kg |
| Optics | MCPET high reflective film, anti fog, high permeable diffusion sheet | Colour of housing | White, Aluminium |
| Driver | Integrated driver | Application | Retail, Hospitality, Offices |
| | | Accessories | Adaptor rings |
| | | Suspension Height - min/max | NA |
| | | Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)



GreenSpace Gen III continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|--|--------------|-----------------------------------|
| GREENSPACE III MICRO DOWNLIGHT WHITE | | |
| DN280B7W3KFWH | 911401575811 | DN280B 1xDLED-3000 PSU WH CAU |
| DN280B7W4KFWH | 911401575911 | DN280B 1xDLED-4000 PSU WH CAU |
| GREENSPACE III MINI DOWNLIGHT WHITE | | |
| DN281B12W3KFWH | 911401576011 | DN281B 1xDLED-3000 PSU WH CAU |
| DN281B12W4KFWH | 911401576111 | DN281B 1xDLED-4000 PSU WH CAU |
| GREENSPACE III COMPACT DOWNLIGHT WHITE | | |
| DN282B17W3KFWH | 911401576411 | DN282B 1xDLED-3000 PSU WH CAU |
| DN282B17W4KFWH | 911401576511 | DN282B 1xDLED-4000 PSU WH CAU |
| GREENSPACE III COMPACT POWER DOWNLIGHT WHITE | | |
| DN283B23W3KFWH | 911401576611 | DN283B 1xDLED-3000 PSU WH CAU |
| DN283B23W4KFWH | 911401576711 | DN283B 1xDLED-4000 PSU WH CAU |
| GREENSPACE III MICRO DOWNLIGHT ALUMINIUM | | |
| DN280B7W3KFALU | 911401577211 | DN280B 1xDLED-3000 PSU ALU G CAU |
| DN280B7W4KFALU | 911401577311 | DN280B 1xDLED-4000 PSU ALU G CAU |
| GREENSPACE III MINI DOWNLIGHT ALUMINIUM | | |
| DN281B6W3KFALU | 911401577411 | DN281B 1xDLED-3000 PSU ALU PR CAU |
| DN281B6W4KFALU | 911401577511 | DN281B 1xDLED-4000 PSU ALU PR CAU |
| DN281B12W3KFALU | 911401577611 | DN281B 1xDLED-3000 PSU ALU G CAU |
| DN281B12W4KFALU | 911401577711 | DN281B 1xDLED-4000 PSU ALU G CAU |
| GREENSPACE III COMPACT DOWNLIGHT ALUMINIUM | | |
| DN282B17W3KFALU | 911401577811 | DN282B 1xDLED-3000 PSU ALU G CAU |
| DN282B17W4KFALU | 911401577911 | DN282B 1xDLED-4000 PSU ALU G CAU |
| GREENSPACE III COMPACT POWER DOWNLIGHT ALUMINIUM | | |
| DN283B23W3KFALU | 911401578011 | DN283B 1xDLED-3000 PSU ALU G CAU |
| DN283B23W4KFALU | 911401578111 | DN283B 1xDLED-4000 PSU ALU G CAU |
| GREENSPACE III ADAPTOR RINGS | | |
| DN280Z138MMWH | 911401700852 | DN280Z AD Adaptor Ring |
| DN281Z185MMWH | 911401700862 | DN281Z AD Adaptor Ring |
| DN282Z249MMWH | 911401700872 | DN282Z AD Adaptor Ring |
| DN283Z249MMWH | 911401700882 | DN283Z AD Adaptor Ring |



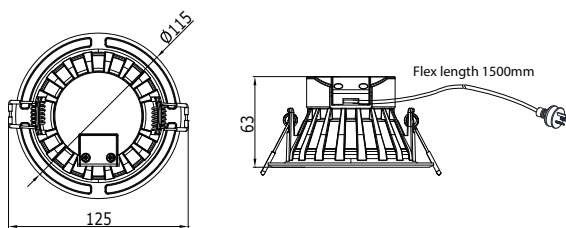
Essential Downlight LED

The Essential LED downlight is the latest offering in the Philips 90mm downlight portfolio. Offering energy savings of up to 75%, long lifetime, and dimmability, this simple retrofit solution is perfect for both residential and commercial applications. With a low profile, and flush finish, the product is easy to install, and will look subtle in the ceiling space.



Features and Benefits

- Fit the application - 3000K/ 4000K CCT, CRI80, high consistency
- White Rim - Fused with white ceiling
- Bright - 800 lm
- Saving - Only 12W power consumption, vs 50W halogen
- Longer lasting - 25k hours lifetime vs 3k hours of halogen
- 90mm cutout - Easily replace your halogen spotlight
- Plug and Play - Prewired with 1.5m flex and 3-pin plug
- High compatibility - Can work with selected leading/trailing edge dimmers



| Product ID | Width (mm) | Depth (mm) | Cutout (mm) |
|------------|------------|------------|-------------|
| DNI05B | 115 | 63 | ø92 |

Dimensions in mm (Nominal)

ESSENTIAL DOWNLIGHT LED

| | | | |
|------------------------------|-------------------------|-----------------------------|---|
| Family Name | Essential Downlight LED | Driver | Integrated driver |
| Model | DNI05B | Dimmable | Selected Universal, Trailing/ Leading edge dimmers. |
| Lumen/ Watt | 800lm/ 12W | Installation | Recessed |
| Lamp Colour | 3000K, 4000K | IP rating | IP20 |
| Colour Rendering Index (CRI) | 80 | Colour of housing | White |
| Flex and Plug | Yes | Application | Residential, Retail, Hospitality, Commercial |
| Lifetime L70* | 25,000 hrs | Accessories | NA |
| Unified Glare Ratio (UGR) | n/a | Suspension Height - min/max | NA |
| Optics | 100D | Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|----------------------------|
| DNI05B12W3KDIM | 911401589111 | DNI05B 1x DLED/830 WH 100D |
| DNI05B12W4KDIM | 911401589211 | DNI05B 1x DLED/840 WH 100D |



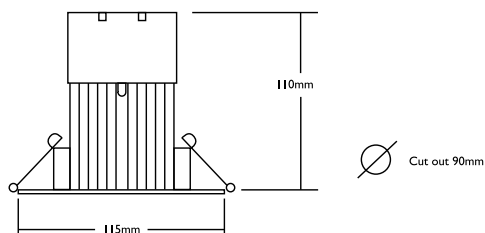
SmartBright Mini Dimmable LED

Consuming just 11W of energy and designed to replace MRI6 halogen downlights, the new dimmable SmartBright Mini is a true fit and forget solution. It is compatible with a number of universal leading and trailing edge dimmers, has a long lifetime and offers up to 75% energy savings in 90mm downlight cutouts.



Features and Benefits

- Fit the application - 3000K/ 4000K CCT, CRI80, high consistency
- White Rim - Fused with white ceiling
- High gloss reflector - Efficient and stylish
- Brighter - 700lm output, 10% brighter than standard MRI6 Halogen
- Saving - Only 11W power consumption, vs 50W halogen
- Longer lasting - 25k hours lifetime vs 3k hours of halogen
- 90mm cutout - Easily replace your halogen spotlight
- Plug and Play - Prewired with 1.2m flex and 3-pin plug
- High compatibility - Can work with your existing leading/trailing edge dimmers



| Product ID | Cutout (mm) | Diameter (mm) | Height (mm) |
|------------|-------------|---------------|-------------|
| DNI01B | 90 | 115 | 110 |

Dimensions in mm (Nominal)

SMARTBRIGHT MINI DIMMABLE LED

| | | | |
|------------------------------|-------------------------------|-----------------------------|---|
| Family Name | SmartBright Mini Dimmable LED | Dimmable | Selected Universal, Trailing/ Leading edge dimmers. Please refer to www.philips.com.au for dimming details. |
| Model | DNI01B | Installation | Recessed |
| Lumen/ Watt | 700lm/ 11W | IP rating | IP20 |
| Lamp Colour | 3000K, 4000K | Weight | DNI01B - 0.47kg |
| Colour Rendering Index (CRI) | 80 | Colour of housing | White |
| Flex and Plug | Yes | Application | Residential, Retail, Hospitality, Commercial |
| Lifetime L70* | 25,000 hrs | Accessories | NA |
| Unified Glare Ratio (UGR) | n/a | Suspension Height - min/max | NA |
| Optics | 60D | Maximum Run Length | NA |
| Driver | Integrated driver | | |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|------------------------------|
| DNI01B11W3KDIM | 911401534611 | DNI01B 1x DLED/830 WH 60D 1x |
| DNI01B11W4KDIM | 911401534711 | DNI01B 1x DLED/840 WH 60D 1x |



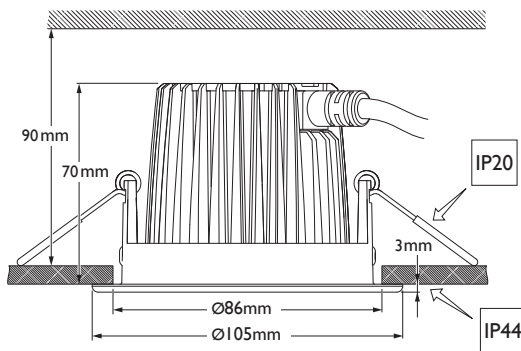
CoreLine ProSet

CoreLine ProSet is a high quality 90mm downlight, offering superb lifetime of 50,000 hours, and IP44 rating so that it can be used in bathrooms as well as other typical residential and commercial applications. With adjustable ring, this product offers fantastic versatility to direct the light exactly where you want to put it. Consuming only 13W of energy, this product will deliver up to 75% energy savings, with even further savings possible through dimmability.



Features and Benefits

- Fit the application - 3000K/ 4000K CCT, CRI80, high consistency
- Fixed and Adjustable fittings, white finish
- High Output - 640lm output
- Saving - Only 13W power consumption, vs 50W halogen
- Long lasting - 50k hours lifetime vs 3k hours of halogen
- 90mm cutout - Easily replace your halogen spotlight
- Plug and Play - Prewired with 1.2m flex and 3-pin plug
- High compatibility - Extensive leading edge dimmer compatibility list
- IP44 - Applicable for Bathrooms



| Product ID | Width (mm) | Height (mm) | Cut-out (mm) |
|------------|------------|-------------|--------------|
| RS121B | 105 | 73 | ø86 |

Dimensions in mm (Nominal)

CORELINE PROSET DOWNLIGHT

| | | | |
|------------------------------|---------------------------|-----------------------------|--|
| Family Name | CoreLine ProSet Downlight | Dimmable | "Selected Leading edge dimmers. Please refer to www.philips.com.au for dimming details." |
| Model | RS121B - Adjustable | Installation | Recessed Adjustable |
| Lumen/ Watt | 640lm/ 13W | IP rating | IP44 |
| Lamp Colour | 3000K, 4000K | Weight | RS121B - 0.33kg |
| Colour Rendering Index (CRI) | 80 | Colour of housing | White |
| Flex and Plug | Yes | Application | Residential, Retail, Hospitality, Commercial |
| Lifetime L70* | 50,000 hrs | Accessories | NA |
| Unified Glare Ratio (UGR) | n/a | Suspension Height - min/max | NA |
| Optics | 40D | Maximum Run Length | NA |
| Driver | Integrated driver | | |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|--------------------------------|
| RS121B13W3KDIM | 911401575511 | RS121B LED6-40-/830 PSR WH CAU |
| RS121B13W4KDIM | 911401575711 | RS121B LED6-40-/840 PSR WH CAU |



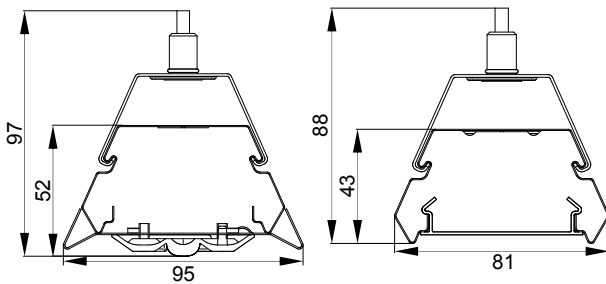
CoreLine Trunking

CoreLine Trunking solution offers a continuous line of light, creating uniformity across the intended space. The product is easy to install, with a simple starter pack per line of light, and easy access via a clever mount and clip device. The product is available in multiple lumen packages and lengths, as well as DALI dimmable option. The latest LED technology now means we can now achieve 100lm/w system efficacy, whilst achieving long lifetime of 50,000 hours. This product is suitable for many applications, especially retail and industry application.



Features and Benefits

- Up to 54% more efficient than average conventional Trunking systems, with 100lm/W system efficiency
- Functional design with 4 dedicated beam shapes (Wide, Narrow, Medium, Double Asymmetric)
- Dimmable (DALI) for even more energy savings
- Comfortable light with up to 8000 lumen per 1.7m
- Highlights merchandise with a 'sparkling' effect
- One volume architecture for fast installation and less packaging waste



| Product ID | Depth (mm) | Height (mm) | Cutout (mm) |
|------------|------------|-------------|-------------|
| LLI20X | 95 | 97 | 3450 |
| LLI21X | 95 | 97 | 1725 |

Dimensions in mm (Nominal)

CORELINE TRUNKING

| | |
|------------------------------|--------------------------------|
| Family Name | CoreLine Trunking |
| Model | LLI20X - 3.4m LLI21X - 1.7m |
| Lumen/ Watt | 9000lm/ 90W 4500lm/ 45W |
| CCT | 4000K |
| Colour Rendering Index (CRI) | >80 |
| Flex and Plug | 5 or 7 wire connection |
| Lifetime L70* | 50,000hrs |
| Unified Glare Ratio (UGR) | n/a |
| Optics | NB/ MB/ WB/ DA30 |
| Driver | Philips Xitanium Driver |
| Dimmable | PSU (Fixed), or PSD (Dali) |

| | |
|-----------------------------|---|
| Installation | Surface/ Suspension Wire |
| IP rating | IP20 |
| Weight | 3400mm - 7.5kg 1700mm - 4.5kg |
| Colour of housing | White |
| Application | Industry, Retail |
| Accessories | Surface/ Suspension Mounting Bracket Starter Kit per aisle of light - Incl. starting and end cap, connector to mains, and first suspension Alternative accessories on request |
| Suspension Height - min/max | 3m/ 12m |
| Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)



GreenPerform LED Batten

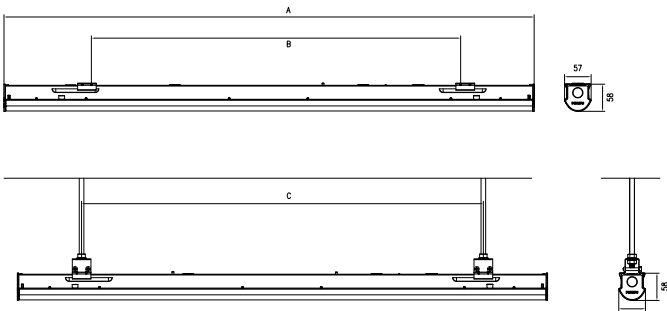
GreenPerform LED Batten is a high quality LED batten and a high system efficacy that delivers significant energy savings of up to 50% as compared to conventional T8 battens. With a reliable and robust housing structure, this maximizes the endurance and contributes to its long lifetime.

With its flexible optics and mounting accessories, it is suitable for symmetrical, asymmetrical, direct and indirect lighting applications. It can be used in a wide variety of applications.



Features and Benefits

- High quality LED batten equivalent to a 2x36W T8 or 2x28W T5
- System efficacy reaches 100lm/W, up to 50% energy saving compared to T8 Batten with same light level
- Integrated design, slim profile, easy to install
- Good colour uniformity and colour rendering (CRI>80)
- Reliable and robust housing structure, maximise the endurance over the life time
- Suitable for both direct and indirect lighting application with flexible optics and mounting accessories
- Provides for continuous line of light due to inline connector between battens, max.25 pcs in connection



| Product ID | A | B | C |
|--------------------|------|--------|--------|
| BN208C LED20/L600 | 573 | 365±20 | 385±20 |
| BN208C LED40/L1200 | 1135 | 823±20 | 843±20 |
| BN209C LED40/L1200 | 1135 | 823±20 | 843±20 |

Dimensions in mm (Nominal)



GreenPerform LED Batten continued

| GREENPERFORM LED BATTEN | | | |
|-------------------------|--|--------------------------------------|--|
| Family name | BN208C Standalone – 600/1200mm | BN209C Trunkable – 1200mm | Driver Philips Xitanium® Driver |
| Lumen/Watt | 2000lm/20w – 2x18W T8 replacement 4000lm/40w – 2x36W T8 replacement | 4000lm/40W – 2x36W T8 replacement | Dimmable No |
| Lamp Colour | Neutral White 4000K | | Installation Surface / Suspension |
| Colour Rendering Index | >80 | | Classification/IP rating IP20 |
| Flex and Plug | n/a | | Colour/Materials Housing: 0.6mm SPCC Cover: PMMA |
| Lifetime L70* | 50,000 hours | | Accessories Surface Mounting Bracket symmetric Surface Mounting Bracket asymmetric Suspension Pole Connection Block Connecting Cable Power Cable |
| Office compliant/UGR | n/a | | Maximum Run Length 25 Fixtures |
| Louvre/Optics | Prismatic cover | | |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|--------------------------|
| BN208C40W4K1200 | 911401568401 | BN208C LED40/NW L1200 FR |
| BN208C40W6K1200 | 911401585601 | BN208C LED40/CW L1200 FR |
| BN208C20W4K1200 | 911401565801 | BN208C LED20/NW L1200 FR |
| BN208C20W4K600 | 911401566101 | BN208C LED20/NW L600 FR |
| BN208C10W4K600 | 911401566601 | BN208C LED10/NW L600 FR |
| BN209C40W4K1200 | 911401566901 | BN209C LED40/NW L1200 FR |
| BN209C40W6K1200 | 911401586001 | BN209C LED40/CW L1200 FR |
| BN209C20W4K1200 | 911401567401 | BN209C LED20/NW L1200 FR |
| ACCESSORIES | | |
| BY208ZMBA | 911401567501 | BY208Z MB-A |
| BY208ZMBS | 911401567601 | BY208Z MB-S |
| BY209ZMBA | 911401567701 | BY209Z MB-A |
| BY209ZMBS | 911401567801 | BY209Z MB-S |
| BY208ZSP | 911401567901 | BY208Z SP |
| BY208ZTB | 911401568001 | BY208Z TB |
| BY208ZC600P | 911401568101 | BY208Z C600-P |
| BY208ZC2 | 911401568201 | BY208Z C-2 |
| BY208ZC200P | 911401568301 | BY208Z C200-P |



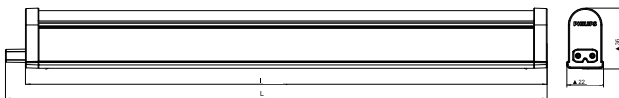
SmartBright LED Batten Gen2

SmartBright LED Batten G2 is an affordable replacement for T5 and T8 battens in indirect lighting solutions, such as pelmet or cove lighting. The product comes in a variety of lengths, and an excellent lifetime of 30,000 hours. The product also comes with a plug in the packaging, so is easy for installation.



Features and Benefits

- Patented glass diffuser: Better heat conduction, no embrittlement, no yellowing
- Longer life time: 30,000 hours
- Higher energy-efficiency : 79lm/w
- Lower TCO vs.TL5 batten triggered to replace conventional batten more easily
- Slim and narrow end cap designed for cove and shelf lighting
- 5 lengths, 3 colours, flexible, mix and match
- Power cable included for easier purchase



| Product ID | Length (mm) | Width (mm) | Height (mm) |
|-----------------|-------------|------------|-------------|
| BN066C (600mm) | 585.5 | 25.5 | 43 |
| BN066C (1200mm) | 1185.5 | 25.5 | 43 |

Dimensions in mm (Nominal)

SMARTBRIGHT LED BATTEN GEN2

| | |
|------------------------------|--|
| Family Name | GreenPerform Batten |
| Model | BN066C |
| Lumen/ Watt | 1108lm / 14W 967lm / 12W 836lm / 10.8W 555lm / 7W 311lm / 4W |
| CCT | 3000K, 4000K, 6500K |
| Colour Rendering Index (CRI) | 80 |
| Flex and Plug | Power Cable (included) |
| *Lifetime (L70@25°C) | 30,000 Hrs |
| Unified Glare Ratio (UGR) | n/a |
| Optics | Diffused Glass |

| | |
|-----------------------------|---|
| Driver | Integrated |
| Dimmable | PSU (Fixed) |
| Installation | Surface Mounted |
| IP rating | IP20 |
| Colour of housing | White |
| Application | Shop Window, Cove, Shelf, Convenience Store, Freezer |
| Accessories | Spare Mounting bracket and screw Connection Cable (0.2m or 0.6m) |
| Suspension Height - min/max | NA |
| Maximum Run Length | 10 Pieces |

* = When the fitting reaches 70% of full potential (new)

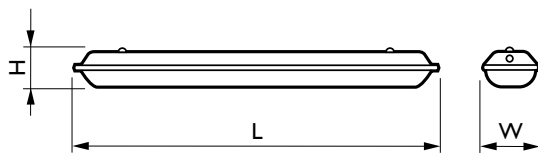
TCW060 Fluorescent Waterproof Batten

Designed for use in demanding environments, TCW060 is an economical, compact waterproof luminaire. Dedicated versions are available for TL-D and TL5 lamps. Ingress-protected to a level of IP65 and operating solely on electronic gear, this is a competitive energy saving solution for wet spaces – at the same cost as an electromagnetic solution. A flexible ceiling clip facilitates easy installation and maintenance.



Features and Benefits

- Economic waterproof luminaire
- Ingress protected to IP65, shockproof to IK08
- Dedicated dimensions for TL-D
- Adjustable ceiling clip for flexible installation



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------------|--------|--------|--------|
| TCW060 1xTL-D36W HF | 1270 | 86 | 90 |
| TCW060 2xTL-D36W HFP | 1270 | 136 | 90 |
| TCW060 2xTL-D58W HF | 1570 | 136 | 90 |

Dimensions in mm (Nominal)

| TCW060 FLUORESCENT WATERPROOF BATTEN | | | |
|--------------------------------------|--|------------------------------|--|
| Family name | TCW060 | Connection | SI [Screw connection block] |
| Model | TCW060 1xTL-D36W HF TCW060 2xTL-D36W HFP TCW060 2xTL-D58W HF | Ingress protection code | IP65 [Dust penetration-protected, jet-proof] |
| Number of light sources | 1, 2 | Mech. impact protection code | IK08 [5] vandal-protected] |
| Lamp family code | TL-D [MASTER TL-D] | Colour | Grey |
| Lamp power | 36W, 58W | Glow-wire test | 650/5 [Temperature 650°C, duration 5s] |
| Kombipack | No | Country version | No |
| Gear | HF [Electronic high-frequency], HFP [HF Performer] | CE mark | CE [CE mark] |
| Optical cover/lens type | PCP [Polycarbonate prismatic] | Input voltage | 220-240V |
| Emergency lighting | No | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|-----------------------------|
| TCW060136HFPFU | 823807877301 | TCW060 1xTLD-36W HFP FTB TE |
| TCW060236HFPFU | 823807877401 | TCW060 2xTLD-36W HFP FTB TE |
| TCW060258HFPFU | 823807874401 | TCW060 2xTLD-58W HFP FTB TE |



GreenPerform Waterproof Batten

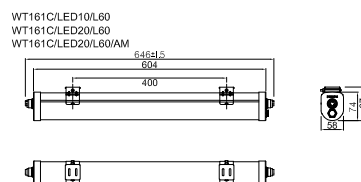
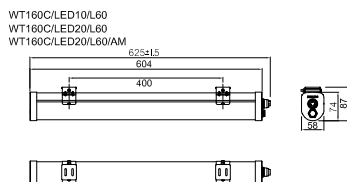
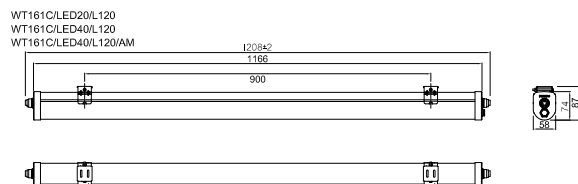
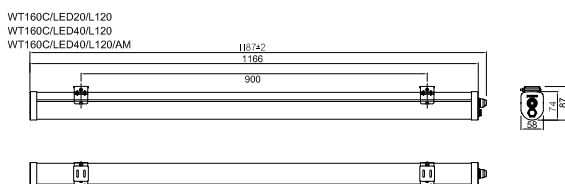
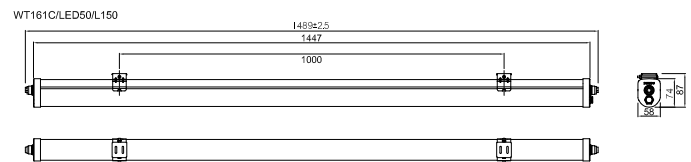
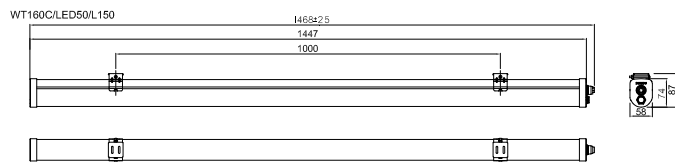
GreenPerform LED Waterproof is a high quality luminaire with a high system efficacy that delivers significant energy savings of up to 50% as compared to conventional T8 batten. With a reliable and robust housing structure, this maximizes the endurance and contributes to its long lifetime.

It is suitable to be used in both direct and indirect lighting applications. This is due to its flexible optics and choice of symmetric or asymmetric mounting accessories that allows for a variety of different lighting applications.



Features and Benefits

- Up to 95lm/W system efficacy, save over 50% energy by replacing T8 waterproof luminaires
- 50,000hr lifetime & IP65 & IK08 protection ensure ultimate reliability and endurance
- Comfortable light with high colour uniformity SDCM<3.5 , CRI>80
- Compact design & IP68 waterproof quick connector ease the installation





GreenPerform Waterproof Batten continued

GREENPERFORM WATERPROOF BATTEN

| | | | |
|------------------------------|---|-----------------------------|---|
| Family Name | GreenPerform Waterproof Batten | Driver | Philips Xitanium Driver |
| Model | WT160C - Standalone version WT161C - Trunkable version | Dimmable | PSU (Fixed) |
| Lumen/ Watt | 4800lm/ 55W 3800lm/ 40W 1900lm/ 20W 1000lm/ 12W | Installation | Surface Mounted |
| CCT | 4000K, 6500K | IP rating | IP65 |
| Colour Rendering Index (CRI) | 80 | Weight | 1500mm - 1.7kg 1200mm - 1.3kg 600mm - 0.7kg |
| Flex and Plug | No | Colour of housing | Green |
| Lifetime L70* | 50,000hrs | Application | Industry, F&B, Parking, Semi Outdoor, Under Canopy, Underground |
| Unified Glare Ratio (UGR) | n/a | Accessories | Trunking Connector Cable (300mm) |
| Optics | Symmetrical wide beam (120°) | Suspension Height - min/max | NA |
| | | Maximum Run Length | 25 pcs trunking |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|-----------------------|
| WT160C10W4K600 | 911401511811 | WT160C LED10 NW L600 |
| WT160C10W6K600 | 911401511911 | WT160C LED10 CW L600 |
| WT161C10W4K600 | 911401512011 | WT161C LED10 NW L600 |
| WT161C10W6K600 | 911401512111 | WT161C LED10 CW L600 |
| WT160C20W4K600 | 911401512211 | WT160C LED20 NW L600 |
| WT160C20W6K600 | 911401512311 | WT160C LED20 CW L600 |
| WT161C20W4K600 | 911401512411 | WT161C LED20 NW L600 |
| WT161C20W6K600 | 911401512511 | WT161C LED20 CW L600 |
| WT160C20W4K1200 | 911401512611 | WT160C LED20 NW L1200 |
| WT161C20W4K1200 | 911401512711 | WT161C LED20 NW L1200 |
| WT160C20W6K1200 | 911401512811 | WT160C LED20 CW L1200 |
| WT161C20W6K1200 | 911401512911 | WT161C LED20 CW L1200 |
| WT160C40W4K1200 | 911401513011 | WT160C LED40 NW L1200 |
| WT160C40W6K1200 | 911401513111 | WT160C LED40 CW L1200 |
| WT161C40W4K1200 | 911401513211 | WT161C LED40 NW L1200 |
| WT161C40W6K1200 | 911401513311 | WT161C LED40 CW L1200 |
| WT160C50W4K1500 | 911401513411 | WT160C LED50 NW L1500 |
| WT160C50W6K1500 | 911401513511 | WT160C LED50 CW L1500 |
| WT161C50W4K1500 | 911401513611 | WT161C LED50 NW L1500 |
| WT161C50W6K1500 | 911401513711 | WT161C LED50 CW L1500 |
| WT161ZTB | 911401527511 | WT161Z TB |



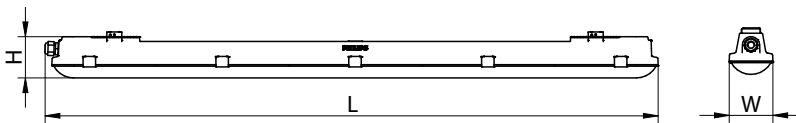
CoreLine Waterproof Batten

CoreLine Waterproof LED is a direct replacement for traditional fluorescent waterproof luminaires, in terms of light performance, installation flexibility and length. With similar look and feel to traditional battens, this diffused luminaire will save up to 50% in energy, and will last 50,000 hours, hence reducing maintenance costs.



Features and Benefits

- Up to 50% lower energy consumption compared to TL-D
- Reliable LED technology – maintenance free
- Direct substitute to conventional waterproofs in light performance, installation flexibility & length
- Substitute available for 2X18W/1X36W/2X36W/1X58W/2X58W TL-D
- Sleek design to create traditional look and feel
- Wide-beam light distribution
- Diffuser with optical element ensures visual comfort
- Ceiling-mounted bracket and suspension hooks included; installation can be made vandal-proof by additional screw fixation of mounting brackets



| Model | W (mm) | H (mm) | L (mm) |
|-------|--------|--------|--------|
| 2ft | 87 | 82 | 661 |
| 4ft | 87 | 82 | 1223 |
| 5ft | 87 | 82 | 1504 |

Dimensions in mm (Nominal)



CoreLine Waterproof Batten continued

| CORELINE WATERPROOF BATTEN | | | |
|------------------------------|---|--|--|
| Family Name | CoreLine Waterproof Batten | Installation | Surface Mounted, Suspension Hook |
| Model | WT120C - Standalone version | IP rating | IP65 |
| Lumen/ Watt | 6000lm/ 57W 4000lm/ 41W 3400lm/ 29W 2200lm/ 23W 1800lm/ 19W | IK Rating | IK08 |
| CCT | 4000K | Weight | 1500mm - 1.82kg 1200mm - 1.53kg 600mm - 0.93kg |
| Colour Rendering Index (CRI) | 80 | Colour of housing | Light Grey |
| Flex and Plug | No | Application | Industry, F&B, Parking, Semi Outdoor, Under Canopy, Underground |
| *Lifetime (L70) | 50,000hrs | Accessories (Included) | Mounting bracket (2pcs), suspension hook (2pcs), anti-vandal screws (2pcs), grommet (2pcs), cable gland (2pcs) |
| Unified Glare Ratio (UGR) | UGR23 | Suspension Height - min/max | NA |
| Optics | Symmetrical wide beam | Maximum Run Length | NA |
| Driver | | * = When the fitting reaches 70% of full potential (new) | |
| Dimmable | PSU (Fixed) | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|-----------------------------|
| WT120C19W4K600 | 910500453335 | WT120C LED18S/840 PSU L600 |
| WT120C23W4K1200 | 910500453336 | WT120C LED22S/840 PSU LI200 |
| WT120C29W4K1500 | 910500453337 | WT120C LED34S/840 PSU LI500 |
| WT120C41W4K1200 | 910500453338 | WT120C LED40S/840 PSU LI200 |
| WT120C57W4K1500 | 910500453339 | WT120C LED60S/840 PSU LI500 |



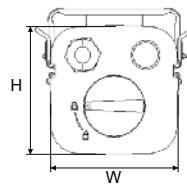
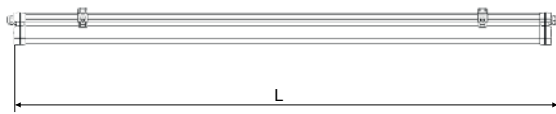
Pacific LED Waterproof Batten

Pacific LED Waterproof batten is a high performance luminaire, replacing traditional fluorescent fittings. With comparable lumen outputs, Pacific LED will save up to 50% energy, and lasts 50,000 hours. Further savings can be achieved through DALI dimming, and comes in a variety of lengths and beam angles. There is also a chemical resistance option, and multiple wiring options.



Features and Benefits

- Point-to-point replacement of high performance TL-D waterproof luminaires up to 2.58W
- Energy savings up to 50%, dimmable (DALI) for even more savings
- Significant lower maintenance cost due to high system lifetime
- Chemical resistance and impact resistance combined in one product optionally
- Multiple Beam angles, lengths, and wiring connections
- Easy installation



| Model | W (mm) | H (mm) | L (mm) |
|-------|--------|--------|--------|
| 2ft | 96 | 96 | 721 |
| 4ft | 96 | 96 | 1342 |
| 5ft | 96 | 96 | 1642 |

Dimensions in mm (Nominal)

PACIFIC LED WATERPROOF BATTEN

| | | | |
|------------------------------|---|-----------------------------|--|
| Family Name | Pacific LED G3 | Installation | Surface Mounted |
| Model | WT460C - Standalone Version WT461C - Chemical Resistance Version | IP rating | IP66 |
| Lumen/ Watt | 6400lm/ 54W 4200lm/ 35W 3500lm/ 28W 2300lm/ 22W | IK Rating | IK08 |
| CCT | 4000K | Weight | 1500mm - 3.9kg 1200mm - 3.4kg 600mm - 1.7kg |
| Colour Rendering Index (CRI) | 80 | Colour of housing | Clear with light grey |
| Flex and Plug | No | Application | Industry, F&B, Parking, Semi Outdoor, Under Canopy, Underground |
| Lifetime L70* | 50,000hrs | Accessories | Flexible ceiling bracket, Suspension Hooks, Ceiling clips, Cable glands, End cap 3 or 5 pole connector, Polycarbonate tube |
| Unified Glare Ratio (UGR) | 22 | Suspension Height - min/max | NA |
| Optics | NB, WB, VWB | Maximum Run Length | NA |
| Driver | Philips Xitanium Driver | | |
| Dimmable | PSD (DALI), PSU (Fixed) | | |

* = When the fitting reaches 70% of full potential (new)

Prolux T5 Highbay TPS 550

Ideal for factories, warehouses, distribution centres and light industry. Philips ProLux T5 highbay solution is a direct replacement for current HID highbay systems, helping you gain significant energy savings.

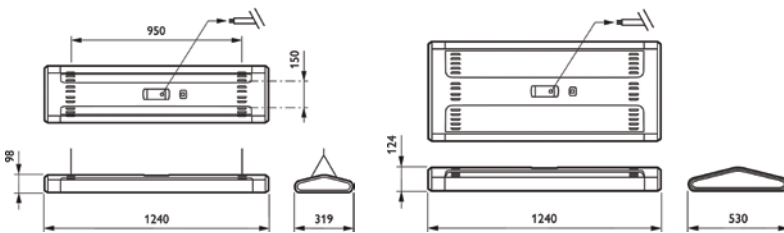
The combination of robust housing, high-reflectance material and specially designed reflectors add up to a high-efficiency luminaire that can help drive profitability by improving energy efficiency. For even more savings, combine with Philips Dynalite lighting controls.



Features and Benefits

- Energy efficiency – delivering up to 45%* energy savings compared to a typical HID Highbay solution, helping you to save more money with lower monthly power bills
- Excellent light quality – better vertical illuminance for rack application, better uniformity, more vivid colour rendering
- Easy maintenance – side ballast access for easy replacement of the ballast without touching the reflector
- Flexible installation – fulfill your unique needs with suspended, surface and pipe-mounted installation options as well as three beam angles (wide, medium and narrow) for various lighting applications
- Accessories – Polycarbonate cover (optional) and Wire Guard mesh cover (optional)

* Compared to a one-to-one replacement with the current HID Highbay Lighting Solution



| Product ID | L (mm) | W (mm) | H (mm) |
|------------------|--------|--------|--------|
| TPS550 2 × 54W | 1240 | 530 | 98 |
| TPS550 4/6 × 54W | 1240 | 319 | 124 |

Dimensions in mm (Nominal)

Prolux T5 Highbay TPS 550 continued

| TPS550 HIGHBAY | | | |
|----------------------|---|--------------------------|---|
| Family name | TPS550 | Dimmable | I-10v HFR dimmable (optional) DALI Dimming (optional) |
| Lamp types | 2 x 54w 4 x 54w – replacement for 250W HPI 6 x 54w – replacement for 400W HPI | Installation | Suspension, Surface Mounted, Pipe Mounted Height: 6-12m |
| Lamps included | No | Classification/IP rating | IP20 |
| Flex and Plug | Yes | Colour/Materials | Housing: Steel Optic: High reflectance aluminium (95% reflectance) |
| Beam angle | Narrow beam Medium beam Wide beam | Accessories | Transparent Protection cover – Steel Wire guard mesh cover – Steel Mounting plate (for pipe installation) – Steel Extension data cable for HFR version |
| Office compliant/UGR | No | | |
| Louvre/Optics | High efficiency optic | | |
| Gear/Ballast | HFP – High Frequency Performer (standard) HFR – I-10v dimmable (optional) HFR-D DALI (optional) | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|----------------------------|
| TPS5506X54HFPNB | 910403630507 | TPS550 6xTL5-54W HFP NB W3 |
| TPS5506X54HFPMB | 910403630508 | TPS550 6xTL5-54W HFP MB W3 |
| TPS5506X54HFPWB | 910403630509 | TPS550 6xTL5-54W HFP WB W3 |
| TPS5504X54HFPNB | 910403630510 | TPS550 4xTL5-54W HFP NB W3 |
| TPS5504X54HFPMB | 910403630511 | TPS550 4xTL5-54W HFP MB W3 |
| TPS5504X54HFPWB | 910403630512 | TPS550 4xTL5-54W HFP WB W3 |
| TPS5502X54HFPNB | 910403630513 | TPS550 2xTL5-54W HFP NB W3 |
| TPS5502X54HFPMB | 910403630514 | TPS550 2xTL5-54W HFP MB W3 |
| TPS5502X54HFPWB | 910403630515 | TPS550 2xTL5-54W HFP WB W3 |
| TPS5506X54HFRNB | 910403630531 | TPS550 6xTL5-54W HFR NB W3 |
| TPS5506X54HFRMB | 910403630532 | TPS550 6xTL5-54W HFR MB W3 |
| TPS5506X54HFRWB | 910403630533 | TPS550 6xTL5-54W HFR WB W3 |
| TPS5504X54HFRNB | 910403630535 | TPS550 4xTL5-54W HFR NB W3 |
| TPS5504X54HFRMB | 910403630536 | TPS550 4xTL5-54W HFR MB W3 |
| TPS5504X54HFRWB | 910403630537 | TPS550 4xTL5-54W HFR WB W3 |
| TPS5502X54HFRNB | 910403630538 | TPS550 2xTL5-54W HFR NB W3 |
| TPS5502X54HFRMB | 910403630540 | TPS550 2xTL5-54W HFR MB W3 |
| TPS5502X54HFRWB | 910403630541 | TPS550 2xTL5-54W HFR WB W3 |



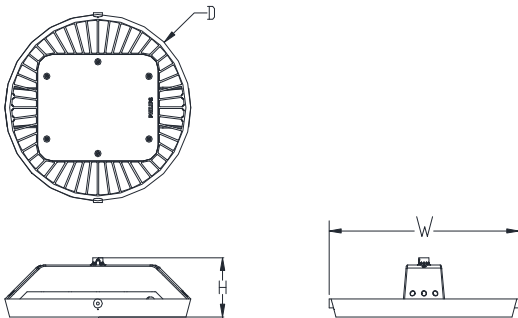
GreenPerform Highbay Gen2

Ideal for factories, warehouses, distribution centres, and light industrial. Philips GreenPerform LED highbay Gen2 is designed to replace 250W and 400W HID highbays, offering up to 60% energy savings, whilst delivering long lifetime, in often hard to reach maintenance areas. Gen2 version sees a reduction in glare by up to 20%, as well as a wide variety of light outputs, from 9,000 lm, all the way up 24,000 lm.



Features and Benefits

- Best energy-efficiency : System efficacy>100lm/W, 1:1 replacement of 400/250W HPI
- Comfortable light: CRI increase to 85 for all colour temperature
- Optimal lighting effects: new light platform & optical design reduce 20% glare
- Versatile applications: multiple mounting options (hook/pipe/ bracket)
- Advanced control interface: 1~10V / DALI dimming option integrated for solution selling (selected models only)
- Robust & Reliable: IP65 protection and 50K hours system life time
- Wider Industry Application: Available in both Tempered Glass Cover and PC Cover
- Easy to Install: Equipped with 3m long power cord & IP65 connector
- Reduced Weight: Max 9.5 kg



| Model | W (mm) | D (mm) | H (mm) |
|--------|--------|--------|--------|
| BY687P | 530 | ø520 | 165 |
| BY688P | 466 | ø457 | 158 |
| BY689P | 374 | ø366 | 153 |

Dimensions in mm (Nominal)

GREENPERFORM HIGHBAY GEN2

| | |
|------------------------------|--|
| Family name | GreenPerform Highbay Gen2 |
| Lumen/Watt | BY687P - 240W, 200W (Big size) BY688P - 160W, 140W (Medium size) BY689P - 100W, 90W (Small size) |
| Lamp Colour | 24,000lm/ 240W 20,000lm/ 200W 16,000lm/ 160W 14,000lm/ 140W 10,000lm/ 100W 9,000lm/ 90W |
| CCT | 4000K, 6500K |
| Colour Rendering Index (CRI) | 85 |
| Wiring | IP65 Connector |
| *Lifetime (L70) | 50,000hrs |
| Unified Glare Ratio (UGR) | 25 |
| Optics | WB, NB, HRO |

| | |
|-----------------------------|--|
| Driver | Philips Xitanium LED Driver |
| Dimmable | PSU (Fixed), PSR (1-10V selected), PSD (Dali selected) |
| Installation | Hook/ Pole/ Bracket |
| IP rating | IP65 |
| IK Rating | IK07 |
| Weight | BY687P - 9.5kg BY688P - 7kg BY689P - 5kg |
| Colour of housing | Silvery grey, high quality die-cast aluminium |
| Application | Industry, Commercial & Convention |
| Accessories | Mounting Bracket |
| Suspension Height - min/max | NA |
| Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)



GreenPerform Highbay Gen2 continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|--------------------|--------------|----------------------------------|
| BIG SIZE | | |
| BY687P240WL6KRW | 911401568511 | BY687P LED240/CW PSR S-WB L3000 |
| BY687P240WL6KRN | 911401568811 | BY687P LED240/CW PSR S-NB L3000 |
| BY687P240WL6KRH | 911401569011 | BY687P LED240/CW PSR S-HRO L3000 |
| BY687P240WL4KRW | 911401568911 | BY687P LED240/NW PSR S-WB L3000 |
| BY687P240WL4KRN | 911401569111 | BY687P LED240/NW PSR S-NB L3000 |
| BY687P240WL4KRH | 911401568711 | BY687P LED240/NW PSR S-HRO L3000 |
| BY687P200WL6KRW | 911401568611 | BY687P LED200/CW PSR S-WB L3000 |
| BY687P200WL6KRN | 911401569311 | BY687P LED200/CW PSR S-NB L3000 |
| BY687P200WL6KRH | 911401569611 | BY687P LED200/CW PSR S-HRO L3000 |
| BY687P200WL4KRW | 911401569511 | BY687P LED200/NW PSR S-WB L3000 |
| BY687P200WL4KRN | 911401569411 | BY687P LED200/NW PSR S-NB L3000 |
| BY687P200WL4KRH | 911401569211 | BY687P LED200/NW PSR S-HRO L3000 |
| BY617ZMB | 911401568411 | BY617Z MB |
| MEDIUM SIZE | | |
| BY688PI60WL6KFW | 911401567111 | BY688P LED160 L3000/CW PSU S-WB |
| BY688PI60WL6KFN | 911401567211 | BY688P LED160 L3000/CW PSU S-NB |
| BY688PI60WL6KFH | 911401567311 | BY688P LED160 L3000/CW PSU S-HRO |
| BY688PI60WL4KFW | 911401567411 | BY688P LED160 L3000/NW PSU S-WB |
| BY688PI60WL4KFN | 911401567511 | BY688P LED160 L3000/NW PSU S-NB |
| BY688PI60WL4KFH | 911401567611 | BY688P LED160 L3000/NW PSU S-HRO |
| BY688PI40W6KRW | 911401535411 | BY688P LED 140/CW PSR S-WB |
| BY688PI40W6KRN | 911401535711 | BY688P LED 140/CW PSR S-NB |
| BY688PI40W4KRW | 911401536111 | BY688P LED 140/NW PSR S-WB |
| BY688PI40W4KRN | 911401535811 | BY688P LED 140/NW PSR S-NB |
| BY618ZMB | 911401578801 | BY618Z MB |
| SMALL SIZE | | |
| BY689PI00WL6KFW | 911401568311 | BY689P LED100 L3000/CW PSU S-WB |
| BY689PI00WL6KFN | 911401568111 | BY689P LED100 L3000/CW PSU S-NB |
| BY689PI00WL6KFH | 911401567911 | BY689P LED100 L3000/CW PSU S-HRO |
| BY689PI00WL4KFW | 911401568011 | BY689P LED100 L3000/NW PSU S-WB |
| BY689PI00WL4KFN | 911401567811 | BY689P LED100 L3000/NW PSU S-NB |
| BY689PI00WL4KFH | 911401567711 | BY689P LED100 L3000/NW PSU S-HRO |
| BY689P90W6KFW | 911401536811 | BY689P LED90/CW PSU S-WB |
| BY689P90W6KFN | 911401536911 | BY689P LED90/CW PSU S-NB |
| BY689P90W4KFW | 911401536311 | BY689P LED90/NW PSU S-WB |
| BY689P90W4KFN | 911401535911 | BY689P LED90/NW PSU S-NB |
| BY619ZMB | 911401578701 | BY619Z MB |



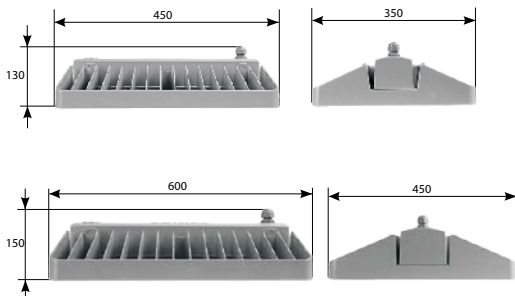
GentleSpace Gen2

GentleSpace Gen2 represents the best in class LED highbay offering, perfect for replacing HID technology in factories, warehouses, distribution centres and light industrial. This state of the art LED luminaire delivers optimum performance in light output, lifetime, and functionality, with DALI dimming capability. GentleSpace Gen2 delivers up to 60% energy savings, whilst maximising architectural appeal and performance.



Features and Benefits

- Up to 25k lumens - Fully equivalent to HPI250/400W high end conventional luminaires
- DALI dimmable with MDU option - Save even more energy costs
- CRI80: High quality of light
- 3.5 x more lifetime than conventional highbay
- Multiple beam angles - More applications can be fulfilled
- -30C - +45C - Wide operating temperature range
- 106-109 lm/W - Improved efficiency



| Model | Width (mm) | Length (mm) | Height (mm) |
|--------|------------|-------------|-------------|
| BY470P | 350 | 450 | 130 |
| BY471P | 450 | 600 | 150 |

Dimensions in mm (Nominal)

GENTLESPACE GEN2

| | |
|------------------------------|--|
| Family Name | GentleSpace Gen2 |
| Model | BY471P - 234W, 160W (Big Size) BY470P - 119W (Small Size) |
| Lumen/ Watt | 25,000lm/ 234W 17,000lm/ 160W 13,000lm/ 119W |
| CCT | 4000K |
| Colour Rendering Index (CRI) | 85 |
| Wiring | 3m flex and external connector IP65 |
| *Lifetime (L70) | 70,000 hrs |
| Unified Glare Ratio (UGR) | 22-25 |
| Optics | WB, MB, NB, HRO |
| Driver | Philips Xitanium LED Driver |

| | |
|-----------------------------|---|
| Dimmable | PSR (1-10V), PSD (Dali) |
| Installation | Suspension Wire/Bracket |
| IP rating | IP65 |
| IK Rating | IK07 |
| Weight | BY471P - 16.9kg BY470P - 9.8kg |
| Colour of housing | Silvery grey, high quality die-cast aluminium |
| Application | Industry, Commercial & Convention |
| Accessories | Mounting Bracket |
| Suspension Height - min/max | NA |
| Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)





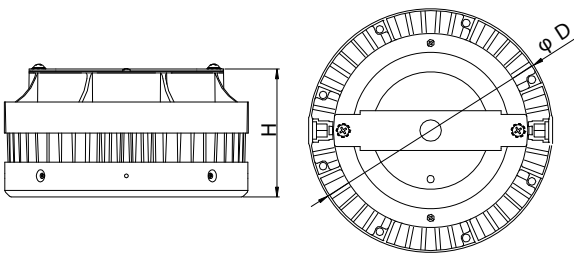
SmartBay Lowbay

Philips' new generation of LED Lowbay, SmartBay, delivers substantial energy saving in a simple way, by adopting a brand-new LED platform and optical technology. It has an optimal colour CRI and UGR to improve the comfort of lighting, satisfying the requirements of various applications such as factories, shopping malls and public areas. SmartBay is the ideal replacement solution for HPI, CDM and MH lamps.



Features and Benefits

- Energy-efficiency: system efficacy > 95lm/W, 1:1 replacement of CDM or HPI, saving up to 69% energy
- Comfortable light: CRI >85, UGR <19 (with reflector), offering a comfortable lighting experience
- Super long life: 50,000 hours system lifetime
- Versatile applications : more than 5 mounting options and accessories, flexible for versatile indoor installations



| Model | Diameter (mm) | Height (mm) |
|--------|---------------|-------------|
| BY268P | 250 | 150 |
| BY269P | 132 | 102 |

Dimensions in mm (Nominal)

SMARTBAY LOWBAY

| | |
|------------------------------|--|
| Family Name | SmartBay Lowbay |
| Model | BY268P - Big Size BY269P - Small Size |
| Lumen/ Watt | 8,200lm/ 85W 5,800lm/ 60W 3,800lm/ 40W |
| CCT | 3000K, 4000K, 6500K |
| Colour Rendering Index (CRI) | 85 |
| *Lifetime (L70) | 50,000 hrs |
| Unified Glare Ratio (UGR) | 22-25 |
| Optics | WB, NB (Needs reflector) |
| Driver | Philips Xitanium LED Driver |

| | |
|-----------------------------|--|
| Dimmable | PSU (Fixed) |
| Installation | Hook/ Pole/ Bracket |
| IP rating | IP40 |
| Weight | BY268P - 4.5kg BY269P - 2.5kg |
| Colour of housing | Silvery grey (Pantone 429U) |
| Application | Industry, Supermarket, Public Area, Shopping Mall |
| Accessories | Mounting Bracket, Reflector, Hook, Chain Kit, Pipe Kit |
| Suspension Height - min/max | NA |
| Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)



Mini 300 Gen2

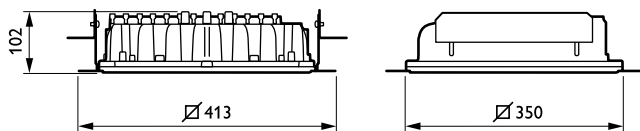
Designed for petrol-station canopies and low-bay applications, Mini 300 Gen2 is an ultra-efficient retrofit fixture that offers outstanding light quality, effective thermal management, and a very long lifespan.

Reduced maintenance, replacement and energy cost means a short payback period, making Mini 300 LED Gen2 a shining example of how businesses can save money by opting for green products. A movement detector combined with a daylight sensor enables further energy savings. Our Mini 300 LED gen2 app gives users control in ways that are simply not possible with other luminaires – for instance, reading status and managing lighting from the floor by laptop or Smartphone via Bluetooth.



Features and Benefits

- Wireless management via Bluetooth from Smartphone or laptop
- Scheduler build in the luminaire to customize your settings
- Status and settings can be read from the floor (no more lift is needed to change settings of luminaire.)
- Instant LED light, long lifetime for lower maintenance cost
- Retrofit solution of 250W & 400W HPI (MPF) or 250W & 315W CDM (Mini300) or competitors
- Movement detector unit and daylight sensor combined for even more energy savings
- Very low weight makes it easy to install (only one person needed)
- Plug & Play
- Master & Slave to reduce number of luminaires with sensor (lower investment cost)
- Energy savings up to 85% compared to HPI systems



| Model | Width (mm) | Length (mm) | Height (mm) |
|--------|------------|-------------|-------------|
| BBP400 | 350 | 350 | 102 |
| BCS400 | 378 | 373 | 152 |

Dimensions in mm (Nominal)



Mini 300 Gen2 continued

| MINI 300 GEN2 | | | |
|------------------------------|---|-----------------------------|--|
| Family Name | Mini 300 GII | Dimmable | PSD (Dali) |
| Model | BBP400 - Recessed BCS400 - Surface Mounted | Installation | Recessed/ Surface Mounted |
| Lumen/ Watt | 12,640lm/ 140W 11,147lm/ 121W 9,629lm/ 106W 8,095lm/ 94W 6,533lm/ 76W | IP rating | IP65 |
| CCT | 5700K | Weight | BBP400 - 9.1kg BCS400 - 8.6kg |
| Colour Rendering Index (CRI) | 68 | Colour of housing | Silvery grey - High quality die-casting aluminium |
| Wiring | | Application | Petrol Stations, Industry, Warehouse, Public Areas |
| *Lifetime (L80) | 70,000 hrs | Accessories | Ceiling Mounting Frame |
| Unified Glare Ratio (UGR) | 22-25 | SMARTS Options | Motion Detection Unit, Daylight Sensor, Scheduler Mode, Bluetooth, Master vs Slave units |
| Optics | PRM, PRW, PAM, A | Suspension Height - min/max | NA |
| Driver | Philips Xitanium LED Driver | Maximum Run Length | NA |
| | | Maximum Run Length | NA |

* = When the fitting reaches 70% of full potential (new)

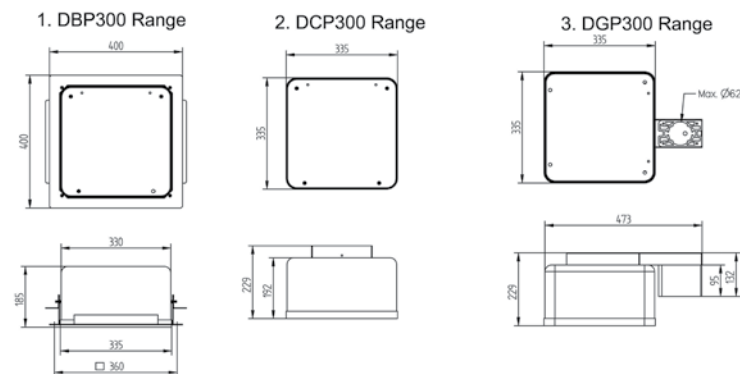
Mini 300 HID

Mini 300 Cube is an extremely efficient low-glare luminaire specially designed for downlighting. The efficiency is achieved by a patented optic coating (which reflects 97% of the light). Mini 300 Cube delivers a uniform light distribution with an asymmetric or bi-directional beam creating outstanding illuminances in industrial and retail environments. The range comprises versions for recessed (DBP300), surface mounted (DCP300) and pole mounted (DGP300). Mini 300 is also available in LED versions (Mini 300 LED Gen 2) in high efficiency for substantial energy savings.



Features and Benefits

- Creates a daylight impression with an extremely efficient low-glare luminaire specially designed for downlighting in canopies
- Daylight impression from an extremely efficient low-glare recessed luminaire specially designed for downlighting under canopies
- Uniform light distribution with an asymmetrical or bi-directional beam creating outstanding illuminance in industrial and retail environments
- Inviting atmosphere thanks to CDM-TD lamp with excellent colour rendering and white-coated reflector
- High efficiency thanks to a patented optic coating



| Model | Width (mm) | Length (mm) | Height (mm) |
|--------|------------|-------------|-------------|
| DBP300 | 400 | 400 | 185 |
| DCP300 | 335 | 335 | 229 |
| DGP300 | 335 | 473 | 229 |

Dimensions in mm (Nominal)

| MINI 300 HID | | | |
|------------------------------|---|-------------------|---|
| Family Name | Mini 300 HID | Driver | Integrated driver |
| Model | DCP300, DGP300, DBP300 | Installation | Recessed |
| Lamp Type | CDM-TD, CDM-T | IP rating | IP65 |
| Wattage | 70W, 150W, 250W | Weight | 7.5kg |
| Lamp Colour | 3000K, 4000K | Colour of housing | White |
| Colour Rendering Index (CRI) | 80, 90 (with CDM-TD lamp) | Application | Industrial, Petrol Stations, Under Canopy |
| Flex and Plug | No | | |
| Optics | Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB), not for CDM-T 250 W lamp version Symmetrical, wide beam (S-WB) Symmetrical, wide beam, bi-directional (S-WB-BD) | | |

Mini 300 HID continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|------------------|--------------|---|
| DCP300MH70SWB | 911401077980 | DCP300 CDM-TD70W IC S-WB FG WH 230-240 |
| DCP300MHI50AWB | 911401077580 | DCP300 CDM-TDI50W IC A-WB FG WH 230-240 |
| DCP300MHI50SWB | 911401078080 | DCP300 CDM-TDI50W IC S-WB FG WH 230-240 |
| DCP300MHI50SWBBD | 911401077680 | DCP300CDM-TDI50W IC S-WB-BD FG WH 230-240 |
| DCP300MH250SWB | 911401078180 | DCP300 CDM-T250W IC S-WB FG WH 230-240 |
| DCP300MH250SWBBD | 911401077780 | DCP300 CDM-T250W IC S-WB-BD FG WH230-240 |
| DGP300MH70AWB | 911401080680 | DGP300 CDM-TD70W IC A-WB FG WH 230-240 |
| DGP300MH70AMB | 911401080880 | DGP300 CDM-TD70W IC A-MB FG WH 230-240 |
| DCP300MH70SWBBD | 911401080380 | DCP300 CDM-TD70W IC S-WB-BD FG WH 230-240 |
| DCP300MH70AWB | 911401081480 | DCP300 CDM-TD70W IC A-WB FG WH 230-240 |
| DGP300MH70ANB | 911401081180 | DGP300 CDM-TD70W IC A-NB FG WH 230-240 |
| DGP300MHI50AWB | 911401080780 | DGP300 CDM-TDI50W IC A-WB FG WH 230-240 |
| DGP300MHI50AMB | 911401080980 | DGP300 CDM-TDI50W IC A-MB FG WH 230-240 |
| DGP300MHI50ANB | 911401081280 | DGP300 CDM-TDI50W IC A-NB FG WH 230-240 |
| DGP300MH250AMB | 911401081080 | DGP300 CDM-T250W IC A-MB FG WH 230-240 |
| DGP300MH250ANB | 911401081380 | DGP300 CDM-T250W IC A-NB FG WH 230-240 |
| DBP300MH70SWBBD | 911401078780 | DBP300 CDM-TD70 WIC S-WB-BD FG WH 230-240 |
| DBP300MH70SWB | 911401081580 | DBP300 CDM-TD70W IC S-WB FG WH 230-240 |
| DBP300MH70AWB | 911401079880 | DBP300 CDM-TD70W IC A-WB FG WH 230-240 |
| DBP300MHI50SWB | 911401078980 | DBP300 CDM-TDI50W IC S-WB FG WH 230-240 |
| DBP300MHI50SWBBD | 911401079080 | DBP300CDM-TDI50W IC S-WB-BD FG WH230-240 |
| DBP300MHI50AWB | 911401079980 | DBP300 CDM-TDI50W IC A-WB FG WH 230-240 |
| DBP300MH250SWBBD | 911401078580 | DBP300 CDM-T250W IC S-WB-BD FG WH230-240 |
| DBP300MH250SWB | 911401078680 | DBP300 CDM-T250W IC S-WB FG WH 230-240 |

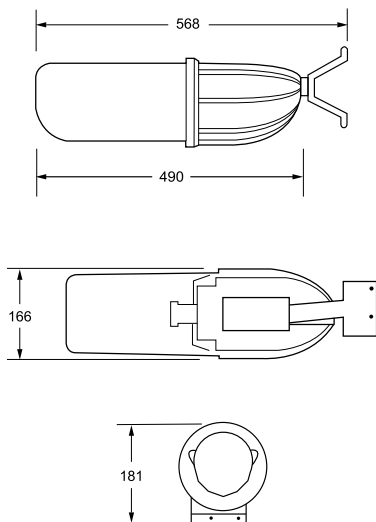
Metro

The Metro luminaire brings a fresh new light to your residential areas, and industrial estates. Metro's compact yet attractive housing easily blends in with your surroundings while making a significant contribution to a safer and more comfortable environment. It comes available with a choice of SON, HPL, CDM and PL-T lamps for a high light output as well as fully integrated gear and mounting brackets for swift and simple installation and maintenance.



Features and Benefits

- Compact luminaire body, designed to accept a variety of lamps: SON, HPLN, CDM-ET and PL-T
- Quick and easy lamp replacement by removal of twist-lock bowl
- Maintenance of the control gear and lamp holder is via a single slideout gear/ lamp holder assembly
- Mounting bracket for easy and flexible installation
- Anti-vibration spring supplied for HID lamp versions



| Model | Length (mm) | Width (mm) | Height (mm) |
|--------|-------------|------------|-------------|
| HGC007 | 568 | 166 | 181 |

Dimensions in mm (Nominal)

Metro continued

| METRO | | | |
|------------------------------|--|-------------------|---|
| Family Name | Metro | Installation | Mounting Bracket (supplied) |
| Model | HGC007 | IP rating | IP65 |
| Lamp Types | SON, HPL, CDM, PL-T | Weight | 3.5kg |
| Wattages | SON (70W) HPL (50W, 80W), CDM (70W), PL-T (18W, 32W) | Colour of housing | N/A |
| Lamp Colour | SON (2000K), HPL (4200K), CDM (4000K), PL-T (4100K) | Application | Residential streets, Area lighting, Footpaths, Conveyor lighting, General Mining lighting |
| Colour Rendering Index (CRI) | SON (25), HPL (45), CDM (>80), PL-T (>80) | Accessories | NA |
| Flex and Plug | No | | |
| Optics | N/A | | |
| Control Gear | Conventional, Electronic (PL-T 4P) | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|---|
| HGC007SHPLN50 | 910401646280 | METRO 50W HPLN LANTERN HPF C/W LAMP & BRACKET |
| HGC007SHPLN80 | 910401646380 | METRO 80W HPLN LANTERN HPF C/W LAMP & BRACKET |
| HGC007SSON70H | 910401646180 | METRO 70W SON LANTERN HPF C/W LAMP & BRACKET |
| HGC007SPLT32 | 910401646680 | METRO PLT 32W C/W LAMP & BRACKET |
| HGC007SESNOGEAR | 910401647280 | METRO ES LAMPHOLDER NO GEAR |
| HGC007SPLC18HK | 910401646480 | METRO PLC 18W C/W LAMP & BRACKET |
| HGC007MP70H | 910401646780 | METRO MINE C/W SON70W/I SPRNG FTB PC BOWL |
| HGC007MP80H | 910401646880 | METRO MINE C/W 80WMV SPRING PC BOWL |
| HGC007MP80HNL | 823807881001 | METRO MINE C/W 80WMV SPRING PC BOWL - NO LAMP |
| HGC007MCDM70 | 823807839801 | METRO MINE C/W CDM70W SPRING FTB - NO LAMP |
| HGC007MSONI70 | 910401646980 | METRO MINE C/W SON-I-70W - NO LAMP |



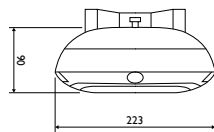
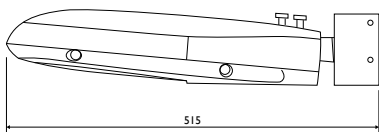
Metro LED

The Metro LED luminaire builds on the continued success of the conventional Metro fitting by offering an energy efficient light source for conveyor lighting, general mining lighting, residential streets, areas requiring security, footpaths, access ways and industrial lighting estates. Designed with die-cast aluminium housing and polycarbonate cover, it provides vibration, dust and heat resistant capabilities to meet harsh application environments. It uses the Philips LEDGINE LED platform to ensure long lifetime and reliability and offers significant energy savings when compared with conventional lamp systems.



Features and Benefits

- Up to 70% energy savings compared to conventional HID Metro with 70W High Pressure Sodium lamp
- Ergonomic curve-shaped housing
- Vibration, dust and heat resistant
- High quality cool and neutral white light with high colour consistency



| Model | Length (mm) | Width (mm) | Height (mm) |
|--------|-------------|------------|-------------|
| BGS007 | 515 | 223 | 90 |

Dimensions in mm (Nominal)

| METRO LED | | | |
|------------------------------|---------------------|--|---|
| Family Name | Metro LED | Driver | Integrated driver |
| Model | BGS007 | Surge protection | 10kV |
| Lumen/ Watt | 2000 lm / 20W | Installation | Standard Metro mounting bracket (supplied) |
| Lamp Colour | 4000K | Weight | 3.5kg |
| Colour Rendering Index (CRI) | 70 ± 5 | Colour of housing | Grey |
| Flex cable | Yes - 3m | Application | General Mining areas / Conveyor Belts / Minor Roads |
| *Lifetime (L70) | 50,000 hrs | Accessories | NA |
| Classifications | IP65, IK06, Class I | * = When the fitting reaches 70% of full potential (new) | |
| Optics | Symmetrical Beam | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|------------------------------------|
| BGS007204KS | 911401641502 | BGS007 LED20/NW 20W 220-240V SNE-V |



RoadStar

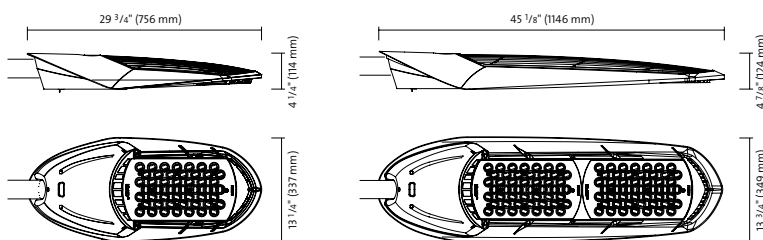
RoadStar was created to help those responsible for lighting our world succeed in their energy conservation goals. Through affordable optimal photometric performance the RoadStar gives all project owners the opportunity to meet their energy conservation goals without sacrificing performance, beauty or safety.



Built to last this versatile lighting solution was designed with an over 70,000 hour lifespan, to minimise maintenance requirements and maximise performance. Not having to deploy maintenance personnel to replace lamps and electrical components can save any user considerable time and money. The durable IP66 sealed construction, excellent thermal management and resistance to the elements, makes the RoadStar an extremely tough, lumen generating power house that simply cannot be outperformed.

Features and Benefits

- Lifetime of over 70,000 hours
- Low maintenance cost: IP66 sealed lens ensures low maintenance with no need for internal cleaning, resulting in a lower total cost of ownership
- Make a statement with this beautifully designed housing to suit any city centre and provide a designer feel.
- Multiple lumen packages and optics to suit most roadway applications.



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| GPLS | 756 | 337 | 114 |
| GPLM | 1146 | 349 | 124 |

Dimensions in mm (Nominal)

ROADSTAR

| | | | |
|------------------------------|---------------------|-------------------|-----------------------------|
| Family Name | RoadStar | Optics | LE2, LE3, LE4, LE5 |
| Model | GPLS, GPLM | Driver | Integrated driver |
| Lumens | Up to 14,695 lumens | Installation | Pole mounted |
| Wattage | 45W to 204W | Weight | GPLS (9.1kg), GPLM (14.1kg) |
| Lamp Colour | 4000K | Colour of housing | Grey |
| Colour Rendering Index (CRI) | 80 | Application | Minor and major roads |
| Flex and Plug | No | Accessories | NA |
| *Lifetime (L70@25°C) | 70,000 hrs | | |

* = When the fitting reaches 70% of full potential (new)



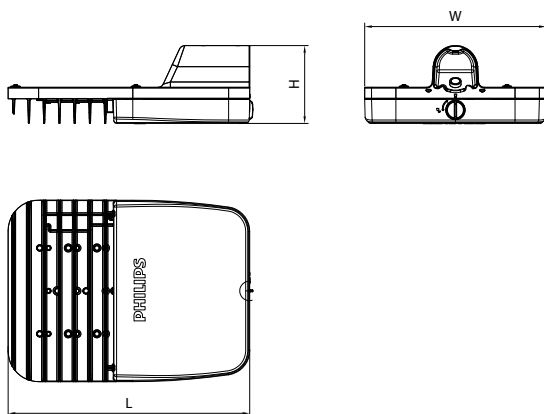
GreenVision Xceed

GreenVision Xceed offers an affordable LED road lighting solution for both residential and major road applications. It offers 3 housing sizes and a range of beam optics to fully cater to different road configurations and conditions. It is designed to achieve better light uniformity and maximum spacing between poles, while ensuring sufficient light on the road. Its die-cast aluminium housing and Philips LEDGINE LED platform ensures long lifetime and reliability. Best of all, GreenVision Xceed offers up to 50% of energy savings when compared to conventional lamp systems.



Features and Benefits

- Up to 50% energy savings with full compliance to road lighting safety standards
- Superior W/m² performance delivered through different optics for greater flexibility to fit different road applications
- High quality cool and neutral white light with high colour consistency
- Tool-less opening of gear compartment & gear tray replacement for ease of maintenance
- World class, approbated quality components (LEDs / Driver / etc.)



| Model | L (mm) | W (mm) | H (mm) |
|--------|--------|--------|--------|
| BRP371 | 422 | 318 | 136 |
| BRP372 | 522 | 318 | 136 |
| BRP373 | 853 | 318 | 136 |

Dimensions in mm (Nominal)

GREENVISION XCEED

| | | | |
|------------------------------|---------------------|-------------------|---------------------------------------|
| Family Name | GreenVision Xceed | Optics | DNE, DME, DWE, DWV, DWP, DW |
| Model | BRP371/372/373 | Driver | Integrated driver |
| Lumens | Up to 31,100 lumens | Surge Protection | 10kV |
| Wattage | 20W to 305W | Installation | Pole mounted |
| Lamp Colour | 3000K, 4000K, 5700K | Weight | BRP371:6.5kg; BRP372:8kg; BRP373:14kg |
| Colour Rendering Index (CRI) | 70 ± 5 | Colour of housing | Grey |
| Flex and Plug | No | Application | Major & Residential roads |
| *Lifetime (L70@35°C) | 50,000 hrs | Accessories | N/A |
| Classifications | IP66, IK08, Class I | | |

* = When the fitting reaches 70% of full potential (new)



GreenVision Xceed continued

| COMMERCIAL CODE | DESCRIPTION |
|-----------------|--------------------------------|
| BRP371204KDWE | BRP371 LED20/NW 20W 220-240V |
| BRP371284KDWE | BRP371 LED30/NW 28W 220-240V |
| BRP371554KDWE | BRP371 LED53/NW 55W 220-240V |
| BRP371704KDWE | BRP371 LED70/NW 70W 220-240V |
| BRP371904KDWE | BRP371 LED87/NW 90W 220-240V |
| BRP3711054KDWE | BRP371 LED104/NW 105W 220-240V |
| BRP3721204KDWE | BRP372 LED122/NW 120W 220-240V |
| BRP3721404KDWE | BRP372 LED139/NW 140W 220-240V |
| BRP3721504KDWE | BRP372 LED157/NW 155W 220-240V |
| BRP3731754KDWE | BRP373 LED174/NW 175W 220-240V |
| BRP3731954KDWE | BRP373 LED192/NW 195W 220-240V |
| BRP3732104KDWE | BRP373 LED209/NW 210W 220-240V |
| BRP3732254KDWE | BRP373 LED226/NW 225W 220-240V |
| BRP3732404KDWE | BRP373 LED243/NW 240W 220-240V |
| BRP3732604KDWE | BRP373 LED260/NW 260W 220-240V |
| BRP3732754KDWE | BRP373 LED277/NW 275W 220-240V |
| BRP3732904KDWE | BRP373 LED294/NW 290W 220-240V |
| BRP3733054KDWE | BRP373 LED311/NW 305W 220-240V |



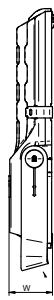
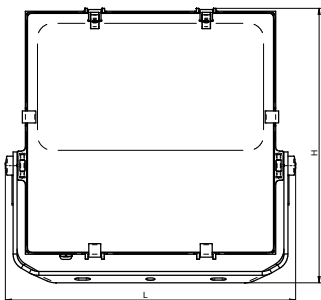
Tango LED

Tango LED is a general purpose LED floodlighting luminaire for various lighting applications, such as area lighting, billboard, façade, industry area, and other general applications. The Tango LED floodlight incorporates an LED light source, optical system, heat sink and driver into one compact housing. Its specially designed heat sink incorporates aesthetics and functionality whilst ensuring reliability and long lifetime. Tango LED takes advantage of all of these features and provides energy savings and a longer lifetime, bringing area lighting into a new era.



Features and Benefits

- Energy saving: system efficacy reaches 90lm/w, which gives more than 40% of energy saving when compared to conventional floodlight
- Free from lamp replacement: Lifetime reaches 50,000 hours at L70, which requires no lamp replacement after installation
- Low maintenance cost: IP65 housing ensures low maintenance with no need for internal cleaning, resulting in a lower total cost of ownership
- Good reliability: Painted non-corrosive die-cast aluminium housing and steel bracket gives extra strength when the luminaire is installed in a rough environment
- Easy installation and maintenance: Universal “U” shape mounting bracket.



| Model | L (mm) | W (mm) | H (mm) |
|--------|-----------|-----------|-----------|
| BVP361 | 433 | 74 | 572 |
| BVP363 | 587 | 74 | 572 |

Dimensions in mm (Nominal)



Tango LED continued

| TANGO LED | | | |
|------------------------------|---|-------------------|--|
| Family Name | Tango LED | Optics | WB, MB, NB (BVP363 only) |
| Model | BVP361, BVP363 | Driver | Integrated driver |
| Lumens | BVP361 (5,300/10,400/15,500 lumen), BVP363 (17,500/21,000/24,500/28,000 lumens) | Surge Protection | 10kV |
| Wattage | BVP361 (55W, 105W, 155W), BVP363 (175W, 210W, 245W, 280W) | Installation | Universal Bracket |
| Lamp Colour | 3000K, 4000K, 5700K | Weight | BVP361 (10.5kg), BVP363 (16kg) |
| Colour Rendering Index (CRI) | 75 | Colour of housing | Grey Aluminium |
| Flex and Plug | No | Application | Area lighting, billboard, façade, industry area, and other general applications. |
| *Lifetime (L70) | 50,000 hrs | Accessories | N/A |
| Classifications | IP65, IK07, Class I | | |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|--------------------------------------|
| BVP361554KAWB | 911401655402 | BVP361 LED53/NW 55W 220-240V AWB V |
| BVP361554KSWB | 911401655502 | BVP361 LED53/NW 55W 220-240V SWB V |
| BVP3611054KAWB | 911401655602 | BVP361 LED104/NW 105W 220-240V AWB V |
| BVP3611054KSWB | 911401655702 | BVP361 LED104/NW 105W 220-240V SWB V |
| BVP3611554KAWB | 911401655802 | BVP361 LED155/NW 155W 220-240V AWB V |
| BVP3611554KSWB | 911401655902 | BVP361 LED155/NW 155W 220-240V SWB V |
| BVP3632804KAWB | 911401652402 | BVP363 LED280/NW 280W 220-240V AWB V |
| BVP3632804KSWB | 911401652502 | BVP363 LED280/NW 280W 220-240V SWB V |
| BVP3632804KNB | 911401652602 | BVP363 LED280/NW 280W 220-240V NB V |
| BVP3632454KAWB | 911401652702 | BVP363 LED245/NW 245W 220-240V AWB V |
| BVP3632454KSWB | 911401652802 | BVP363 LED245/NW 245W 220-240V SWB V |
| BVP3632454KNB | 911401652902 | BVP363 LED245/NW 245W 220-240V NB V |
| BVP3632104KAWB | 911401653002 | BVP363 LED210/NW 210W 220-240V AWB V |
| BVP3632104KSWB | 911401653102 | BVP363 LED210/NW 210W 220-240V SWB V |
| BVP3632104KNB | 911401653202 | BVP363 LED210/NW 210W 220-240V NB V |
| BVP3631754KAWB | 911401653302 | BVP363 LED175/NW 175W 220-240V AWB V |
| BVP3631754KSWB | 911401653402 | BVP363 LED175/NW 175W 220-240V SWB V |
| BVP3631754KNB | 911401653502 | BVP363 LED175/NW 175W 220-240V NB V |



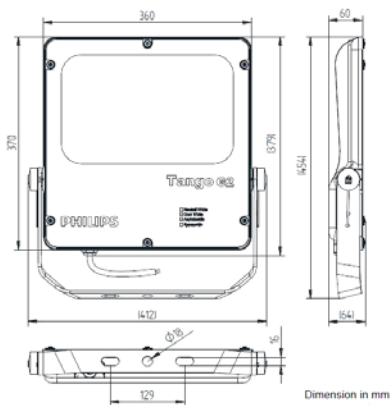
Tango G2 LED

Tango G2 LED is a general purpose mid-power LED floodlighting luminaire suitable for various lighting applications, including area lighting, billboard, façade, and other general applications. Similar to the Tango LED floodlight, the Tango G2 LED floodlight incorporates a mid-power LED light source, optical system, heat sink and driver into even smaller and lighter compact housing. Its specially designed heat sink incorporates aesthetics and functionality whilst ensuring reliability and long lifetime. Tango LED takes advantage of all of these features and provides an affordable energy efficient floodlighting solution.



Features and Benefits

- Energy saving: system efficacy reaches 100lm/w which gives an energy saving of more than 40% when compared to conventional floodlighting.
- No need for lamp replacement: thanks to a lifetime that reaches 50,000 hours at L70.
- Low maintenance: IP65 housing ensures low maintenance with no need for internal cleaning, resulting in a lower total cost of ownership.
- Flexibility on lighting application: the symmetrical wide beam covers most lighting applications.
- Long-lasting: painted, non-corrosive die-cast aluminium housing and steel bracket gives extra strength when the luminaire is installed in harsh environments.
- Easy installation and maintenance: with a universal “U” shape mounting bracket and 300mm long tail, the Tango G2 is easy to install.



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| BVP281 | 412 | 64 | 454 |

Dimensions in mm (Nominal)



Tango G2 LED continued

| TANGO G2 LED | | | |
|------------------------------|---------------------------|-------------------|---|
| Family Name | Tango G2 LED | Optics | SWB |
| Model | BVP281 | Driver | Integrated driver |
| Lumens | 4,000lm, 8000lm, 12,000lm | Surge Protection | 10kV |
| Wattage | 40W, 80W, 120W | Installation | Universal Bracket |
| Lamp Colour | 4000K, 6500K | Weight | 6.5kg |
| Colour Rendering Index (CRI) | Min 80 | Colour of housing | Grey Aluminium |
| Flex and Plug | No | Application | Area lighting, bill board, façade, industry area, and other general applications. |
| *Lifetime (L70@35°C) | 50,000 hrs | Accessories | N/A |
| Classifications | IP65, IK07, Class I | | |

* = When the fitting reaches 70% of full potential (new)

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|------------------------------------|
| BVP281404KSWB | 911401635202 | BVP281 LED40/NW 40W 220-240V SWB |
| BVP281804KSWB | 911401634102 | BVP281 LED80/NW 80W 220-240V SWB |
| BVP2811204KSWB | 911401634202 | BVP281 LED120/NW 120W 220-240V SWB |
| BVP2814065KSWB | 911401634602 | BVP281 LED40/CW 40W 220-240V SWB |
| BVP2818065KSWB | 911401634702 | BVP281 LED80/CW 80W 220-240V SWB |
| BVP28112065KSWB | 911401634802 | BVP281 LED120/CW 120W 220-240V SWB |

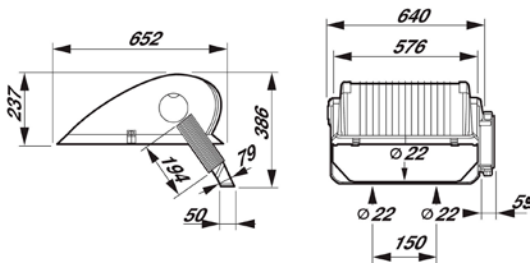
OptiVision

An asymmetric luminaire for downlighting that combines a compact design with very high efficiency. It provides excellent spill-light control and limitation of glare and upward leakage of light. It accommodates metal-halide lamps for good colour rendering or high-pressure sodium lamps for economical operation. Available with narrow, medium and wide beams.



Features and Benefits

- Excellent spill-light control; limitation of glare and upward leakage of light is secured by asymmetric optics that achieve peak intensity at 60° and a sharp cut-off of light at 80°
- Housing dust proof and waterproof to IP65; no internal cleaning required
- Integrated protractor scale for aiming
- The compact, low-weight luminaire, together with the low drag factor, enables savings on mast costs
- Specially designed heat fins to provide optimal working conditions for lamp and reflector system



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| MVP507 | 640 | 652 | 386 |

Dimensions in mm (Nominal)

| OPTIVISION | | | |
|------------------------------|------------------------------------|-------------------|--|
| Family Name | OptiVision | Control Gear | Conventional (gear tray mounted or IP65 box) ** |
| Model | MVP507 | Installation | Floodlight mounting bracket |
| Lamp Type | SON-T, MHN-LA ** | IP rating | IP65 |
| Wattage | 600W (SON-T), 1kW, 2kW (MHN-LA) ** | Weight | 17.3kg (excluding gear) |
| Lamp Colour | 4200K/5600K (MHN-LA) ** | Colour of housing | Silver |
| Colour Rendering Index (CRI) | 80/90 (MHN-LA) ** | Application | Sports Facilities / Industrial Areas / Car Parks |
| Flex and Plug | No | Accessories | NA |
| Optics | NB, MB, WB | | |

** Please note that lamp and control gear are to be purchased separately.

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|-------------------------------|
| MVP507MHIKWVB | 910401647780 | MVP507 MHN-LA1000W WB |
| MVP507SONTIKWVB | 910401647680 | MVP507 SON-T1000W WB |
| MVP507SONT600WB | 910401647580 | MVP507 SON-T1000W WB |
| MVP507MH2KWNB | 823807803511 | MVP507 MHN-LA2000W/400V/NB BK |
| MVP507MH2KWMB | 823807803611 | MVP507 MHN-LA2000W/400V/MB BK |
| MVP507MH2KWVB | 823807803711 | MVP507 MHN-LA2000W/400V/WB BK |

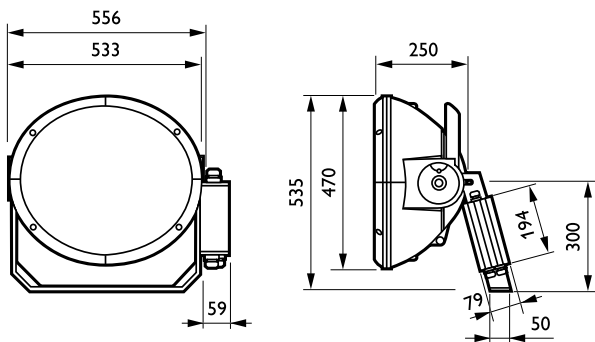
ArenaVision

Since it was first introduced in 1988, Philips ArenaVision has proven to be amongst the best floodlighting systems ever for sports lighting applications, most of which have to fulfill the highest specifications to enable television coverage of national and international events. With ArenaVision, the key disciplines of lamp, optic and gear design were brought together with a single mission: to create the best possible floodlight that will operate effectively for many years. ArenaVision MVF403 is ideal for indoor sports halls as well as many outdoor sports and other illumination uses. It comes with a variety of reflectors and lamps and offers a choice of optical systems.



Features and Benefits

- Together with the unique oval optics, the MHN-SA 2000W lamp guarantees the highest possible system efficiency, low glare and optimal lighting levels on the field
- Built-in reflector reduces spill light and glare even further
- Rear opening access for easy lamp replacement
- Housing dust proof and waterproof to IP65; no internal cleaning required



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| MVF403 | 533 | 250 | 535 |

Dimensions in mm (Nominal)

| ARENAVISION | | | |
|------------------------------|----------------------------|-------------------|---|
| Family Name | ArenaVision | Control Gear | Conventional (gear tray mounted or IP65 box) ** |
| Model | MVF403 | Installation | Floodlight mounting bracket |
| Wattage | 1kW, 2kW | IP rating | IP65 |
| Lamp Colour | 4200K/5600K ** | Weight | 13.7kg (excluding gear) |
| Colour Rendering Index (CRI) | 80/90 ** | Colour of housing | Silver |
| Flex and Plug | No | Application | Outdoor Sports Lighting / Indoor Sports Halls / Architectural floodlighting |
| Optics | A1, A2, A3, A4, A5, A6, A7 | Accessories | N/A |

** Please note that lamp and control gear are to be purchased separately.

ArenaVision continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|--------------------------------------|
| MVF403MHIKWA1 | 911401054680 | MVF403 C MHN-LAI000W 220-240V A1 |
| MVF403MHIKWA2 | 911401054780 | MVF403 C MHN-LAI000W 220-240V A2 |
| MVF403MHIKWA3 | 911401054880 | MVF403 C MHN-LAI000W 220-240V A3 |
| MVF403MHIKWA4 | 911401054980 | MVF403 C MHN-LAI000W 220-240V A4 |
| MVF403MHIKWA5 | 911401055080 | MVF403 C MHN-LAI000W 220-240V A5 |
| MVF403MHIKWA6 | 911401055180 | MVF403 C MHN-LAI000W 220-240V A6 |
| MVF403MHIKWA7 | 911401055280 | MVF403 C MHN-LAI000W 220-240V A7 |
| MVF403MH2KWA1 | 910401642180 | MVF403 MHN-SA2000W 380-415 CAT-A1 SI |
| MVF403MH2KWA2 | 910401642780 | MVF403 MHN-SA2000W 380-415 CAT-A2 SI |
| MVF403MH2KWA3 | 910401642280 | MVF403 MHN-SA2000W 380-415 CAT-A3 SI |
| MVF403MH2KWA4 | 910401642380 | MVF403 MHN-SA2000W 380-415 CAT-A4 SI |
| MVF403MH2KWA5 | 910401642480 | MVF403 MHN-SA2000W 380-415 CAT-A5 SI |
| MVF403MH2KWA6 | 910401642580 | MVF403 MHN-SA2000W 380-415 CAT-A6 SI |
| MVF403MH2KWA7 | 910401642680 | MVF403 MHN-SA2000W 380-415 CAT-A7 SI |

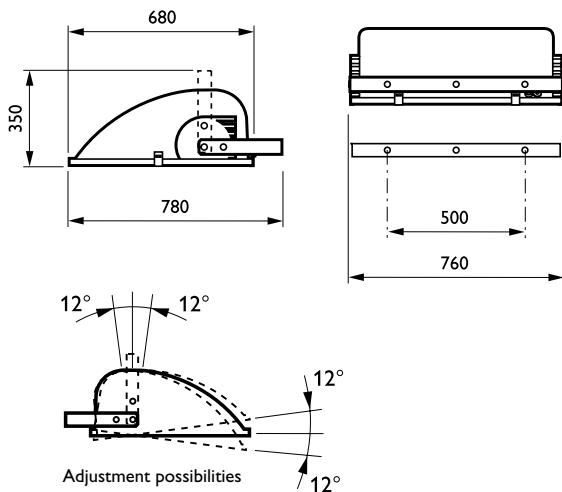
ComfortVision

ComfortVision is a high-efficiency, asymmetric floodlight, distributing a low-glare beam evenly and accurately. It can accommodate metal-halide lamps for good colour rendering or a high-pressure sodium lamp for economical performance. Available in medium- or narrow-beam versions, the floodlight accepts a single 1,000 or two 400 or 600W lamps. The twin-lamp version offers switching flexibility that permits tailoring to the user's needs while allowing energy savings. ComfortVision's rugged all-weather construction is designed for easy aiming, simple cleaning and speedy servicing.



Features and Benefits

- Rugged, all-weather construction
- Single 1000 W or two switchable 400 or 600 W lamps
- Medium or narrow beam
- Adjustment range of $\pm 12^\circ$ from the horizontal
- Universal mounting bracket



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| SNFI 11 | 780 | 760 | 350 |

Dimensions in mm (Nominal)

ComfortVision continued

| COMFORTVISION | | | |
|------------------------------|----------------|-------------------|---|
| Family Name | ComfortVision | Control Gear | Conventional (gear tray mounted or IP65 box) ** |
| Model | SNF111 | Installation | Floodlight mounting bracket |
| Lamp Types | SON-T | IP rating | IP65 |
| Wattage | 1kW, 2x400W ** | Weight | 23.5kg (excluding gear) |
| Lamp Colour | N/A ** | Colour of housing | Silver |
| Colour Rendering Index (CRI) | N/A ** | Application | Industrial Areas / Roundabouts / Car Parks / Sports Lighting / Airports |
| Flex and Plug | No | Accessories | N/A |
| Optics | NB, MB | | |

** Please note that lamp and control gear are to be purchased separately.

| COMMERCIAL CODE | I 2NC | DESCRIPTION |
|-----------------|--------------|---------------------------|
| SNF111SON1KWNB | 910403929112 | SNF111 1xSON-T1000W NB SI |
| SNF111SON1KWMB | 910403929212 | SNF111 1xSON-T1000W MB SI |
| SNF1112SON400NB | 910403929512 | SNF111 2XSON-T400W NB SI |
| SNF1112SON400MB | 910403929612 | SNF111 2xSON-T400W MB SI |

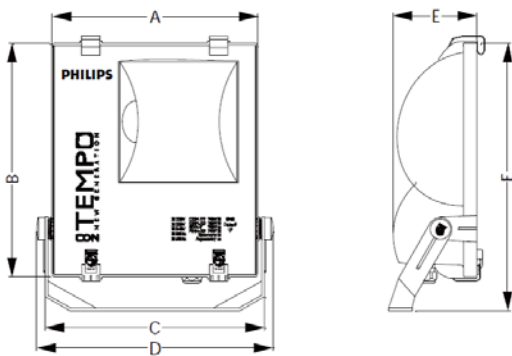
ConTempo HID

The ConTempo floodlight has a registered design that blends well with contemporary outdoor environments. It has a rugged pressure die-casted aluminium housing with corrosion resistant powder coating. ConTempo also features an integrated energy saving copper ballast, electronic semi-parallel ignitor and capacitor. The unit has passed rigorous tests for dust and water ingress protection.



Features and Benefits

- Rugged pressure die-casted aluminium housing with corrosion resistant powder coating
- Integrated energy saving copper ballast, electronic semi-parallel ignitor and capacitor
- Custom-designed peened anodised reflector for efficient symmetric and asymmetric optics
- Hinged toughened glass cover for easy operation
- Rigorously tested for dust and water ingress protection
- Ergonomic installation and maintenance mechanisms



| Product ID | D (mm) | E (mm) | F (mm) |
|------------|--------|--------|--------|
| RVP250 | 363 | 117 | 424 |
| RVP350 | 460 | 137 | 476 |

Dimensions in mm (Nominal)

CONTEMPO HID

| | | | |
|------------------------------|--|-------------------|---|
| Family Name | ConTempo HID | Control Gear | Conventional |
| Model | RVP250/350 | Installation | Universal Bracket |
| Lamp Type | MHN-TD, HPI-T, SON-T | IP rating | IP65 |
| Wattages | 70W, 150W, 250W, 400W | Weight | RVP250 (4.7kg) , RVP350 (9.4kg) |
| Lamp Colour | MHN-TD (4200K), HPI-T (4500K), SON-T (2000K) | Colour of housing | Grey |
| Colour Rendering Index (CRI) | MHN-TD (80) , HPI-T (65) , SON-T (25) | Application | Area Lighting / Billboard / Façade / Industrial Areas / Other General |
| Flex and Plug | No | Accessories | N/A |
| Optics | Symmetrical, Asymmetrical | | |

ConTempo HID continued

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|---------------------------------------|
| RVP250MH70TDKA | 911401057480 | RVP250 MHN-TD70W K IC 240V 50Hz A SP |
| RVP250MH70TDKS | 911401056380 | RVP250 MHN-TD70W K IC 240V 50Hz S SP |
| RVP250MHI50TDKA | 911401057580 | RVP250 MHN-TDI50W K IC 240V 50Hz A SP |
| RVP250MHI50TDKS | 911401057180 | RVP250 MHN-TDI50W K IC 240V 50Hz S SP |
| RVP350HPI250TKA | 911401056980 | RVP350 HPI-T250W K IC 240V 50Hz A SP |
| RVP350HPI250TKS | 911401056580 | RVP350 HPI-T250W K IC 240V 50Hz S SP |
| RVP350HPI400TKA | 911401057080 | RVP350 HPI-T400W K IC 240V 50Hz A SP |
| RVP350HPI400TKS | 911401056680 | RVP350 HPI-T400W K IC 240V 50Hz S SP |
| RVP250SON70TKA | 911401057680 | RVP250 SON-T70W K IC 240V 50Hz A SP |
| RVP250SON70TKS | 911401057280 | RVP250 SON-T70W K IC 240V 50Hz S SP |
| RVP250SON150TKA | 911401057780 | RVP250 SON-T150W K IC 240V 50Hz A SP |
| RVP250SON150TKS | 911401057380 | RVP250 SON-T150W K IC 240V 50Hz S SP |
| RVP350SON250TKA | 911401056780 | RVP350 SON-T250W K IC 240V 50Hz A SP |
| RVP350SON250TKS | 911401057880 | RVP350 SON-T250W K IC 240V 50Hz S SP |
| RVP350SON400TKA | 911401056880 | RVP350 SON-T400W K IC 240V 50Hz A SP |
| RVP350SON400TKS | 911401056480 | RVP350 SON-T400W K IC 240V 50Hz S SP |

Tango HID

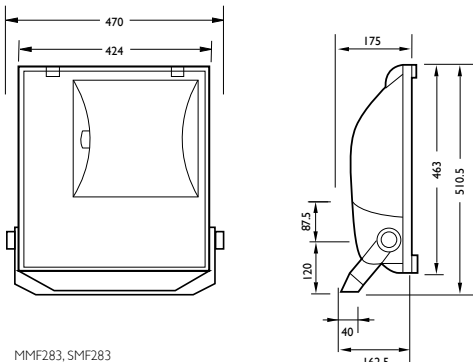
Compact, sturdy floodlight complete with integral gear, particularly suited for surface lighting using metal halide or high-pressure sodium lamps. All-weather construction designed for simple cleaning and speedy servicing.



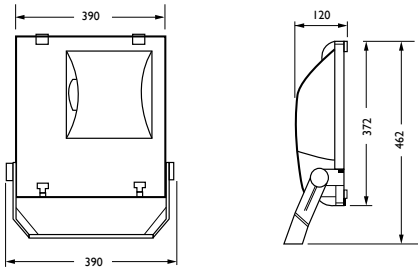
Features and Benefits

- High-grade symmetrical or asymmetrical reflector projects a highly efficient light beam
- Wall, ceiling and surface mountings with wide range of adjustments for both down and up lighting
- Quick, easy access to lamp and gear, without affecting beam adjustment, through hinged front window with quick-release clips
- Housing dustproof and jetproof; no internal cleaning required

MMF383, SMF383



MMF283, SMF283



| Product ID | L (mm) | W (mm) | H (mm) |
|----------------|--------|--------|--------|
| MMF383, SMF383 | 470 | 175 | 510.5 |
| MMF283, SMF283 | 390 | 120 | 462 |

Dimensions in mm (Nominal)

Tango HID continued

| TANGO HID | | | |
|------------------------------|--|-------------------|---|
| Family Name | Tango HID | Control Gear | Conventional |
| Model | Tango 2 (SMF283, MMF283), Tango 3 (SMF383, MMF383) | Installation | Universal Bracket |
| Lamp Types | MHN-TD, HPI-T, SON-T | IP rating | IP65 |
| Wattages | 70W, 150W, 250W, 400W | Weight | Tango 2 (7.6-9kg) Tango 3 (12.5 -14kg) |
| Lamp Colour | MHN-TD (4200K), HPI-T (4500K), SON-T (2000K) | Colour of housing | Black |
| Colour Rendering Index (CRI) | MHN-TD (80) , HPI-T (65) , SON-T (25) | Application | Area Lighting / Billboard / Façade / Industrial Areas / Other General |
| Flex and Plug | No | Accessories | N/A |
| Optics | Symmetrical, Asymmetrical | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|---------------------------------------|
| MMF283MH70TDKS | 91040333201 | MMF283 MHN-TD70W Tango S K 240v 50hz |
| MMF283MHI50TDKS | 91040333101 | MMF283 MHN-TD150W Tango S K 240v 50hz |
| MMF383HPI250TKS | 910403334201 | MMF383 HPI-T250W Tango S K 240v 50hz |
| MMF383HPI400TKS | 910403334401 | MMF383 HPI-T400W Tango S K 240v 50hz |
| MMF383HPI400TKA | 910403334501 | MMF383 HPI-T400W Tango A K 240v 50hz |
| SMF283SON70TKS | 910403336601 | SMF283 SON-T70W Tango S K 240v 50hz |
| SMF383SON250TKS | 910403333801 | SMF383 SON-T250W Tango S K 240v 50hz |
| SMF383SON400TKS | 910403334001 | SMF383 SON-T400W Tango S K 240v 50hz |
| SMF383SON400TKA | 910403334101 | SMF383 SON-T400W Tango A K 240x 50hz |

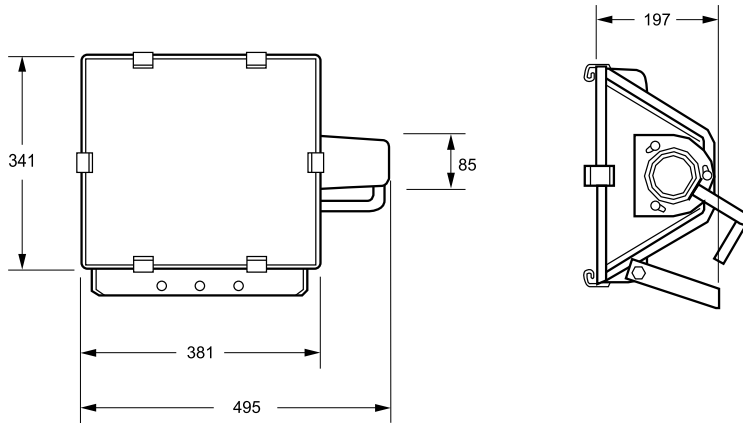
HNF90I (Puma)

A versatile floodlight suitable for small to medium scale floodlighting for sports or similar areas. It offers good colour rendering with HPI-T metal halide lamps, or economical operation with SON-T high pressure sodium lamps. Robust and simple construction designed for easy aiming, quick maintenance and long service life.



Features and Benefits

- Robust and simple construction designed for easy aiming, quick maintenance and long service life.
- Suitable for multiple applications including industrial areas and sports facilities.



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| HNF90I | 495 | 197 | 341 |

Dimensions in mm (Nominal)

| HNF90I (PUMA) | | | |
|------------------------------|--------|-------------------|--|
| Family Name | Puma | Control Gear | N/A |
| Model | HNF90I | Installation | Universal bracket |
| Wattage | N/A | IP rating | IP65 |
| Lamp Colour | N/A | Weight | 8kg |
| Colour Rendering Index (CRI) | N/A | Colour of housing | Silver |
| Flex and Plug | No | Application | Sports facilities / General areas / Industrial areas / Car Parks |
| Optics | NB, WB | Accessories | N/A |

* Please note fitting is supplied without lamp

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|------------------------|
| HNF90IGRNB | 911401040780 | HNF90I NARROW FLOOD |
| HNF90IGRWB | 911401040380 | HNF90I WIDE FLOOD |
| HNF90IBLNB | 911401040880 | HNF90I NRW FLD - BLACK |



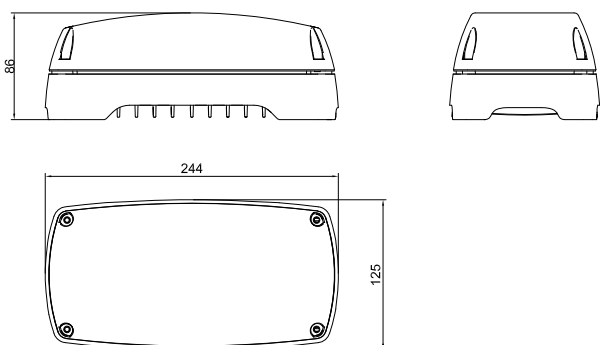
Mini Vandalite LED

Everyone wants to feel safe after dark, and yet we're also conscious of the need to save energy. The solution to this dilemma is here in the form of Mini Vandalite LED, a ceiling or wall-mounted security and amenity lighting luminaire. LED-based, it delivers low-energy lighting all night long. Its translucent bowl provides excellent light distribution for low-level lighting of walls, corridors and surroundings. The high reliability and longevity of LEDs means that neither lamp replacement nor maintenance is required during the luminaire's long service life, thus reducing costs. Mini Vandalite's robust, vandal-resistant construction makes it suitable for both outdoor and indoor applications.



Features and Benefits

- Point to Point replacement of fluorescent bulkheads
- 12W (600 lm) and 17W (900 lm)
- 50 lm/W, Energy Savings up to 30%
- Compact and easy to install
- Life up to 50,000hrs (L70)
- IP65/IK10 robust design and vandal resistant construction
- Outdoor Residential / Security Lighting



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| BCW098 | 244 | 125 | 86 |

Dimensions in mm (Nominal)

* = When the fitting reaches 70% of full potential (new)



Mini Vandalite LED continued

| MINI VANDALITE LED | | | |
|------------------------------|--------------------------|-----------------------------|-----------------------|
| Family Name | Mini Vandalite | Dimmable | PSU (Fixed output) |
| Model | BCW098 | Installation | Wall Mounted |
| Lumen/ Watt | 900lm/ 17W 600lm/ 12W | IP rating | IP65 |
| Lamp Colour | 4000K | IK Rating | IK10 |
| Colour Rendering Index (CRI) | 85 | Colour of housing | Dark grey, RAL 7043 |
| Flex and Plug | Not included | Application | Residential, Security |
| *Lifetime (L70) | 50,000hrs | Accessories | n/a |
| Unified Glare Ratio (UGR) | n/a | Suspension Height - min/max | NA |
| Optics | 120D | Maximum Run Length | NA |
| Driver | Integrated driver | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|----------------|
| BCW0986L12W4KF | 911401704901 | BCW098 LED6/NW |
| BCW0989L17W4KF | 911401705001 | BCW098 LED9/NW |



Twin Motion LED Sensor

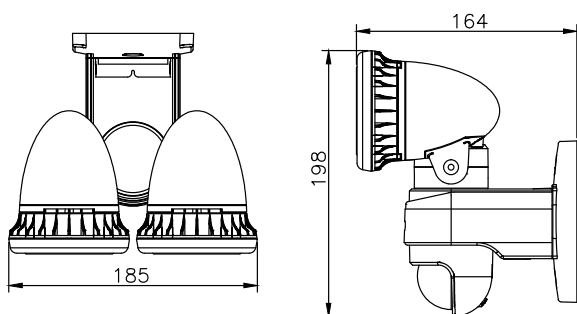
The Philips LED motion sensor incorporates the latest in lighting technology with practical and user friendly features, including adjustable beam angles and sensor timer.

Designed as a total fit and forget solution, the LED motion and daylight sensor is the complete package with low energy usage and extra long life.



Features and Benefits

- Low 2 x 7.5W LED adjustable beam angles
- Bright 5,000K colour temperature
- Up to 30,000 hours lifetime
- IP44 rated for outdoor use
- Powerful 1,000 lumens light output



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| EH313L | 164 | 185 | 198 |

Dimensions in mm (Nominal)

TWIN MOTION LED SENSOR

| | | | |
|------------------------------|------------------------|-----------------------------|----------------------|
| Family Name | Twin Motion LED Sensor | Dimmable | PSU (Fixed output) |
| Model | EH313L | Installation | Wall Mounted |
| Lumen/ Watt | EH313L - 1000lm/ 15W | IP rating | IP44 |
| Lamp Colour | 5000K | Weight | 0.80kg |
| Colour Rendering Index (CRI) | 80 | Colour of housing | Black |
| Flex and Plug | Not included | Application | Residential Security |
| *Lifetime (L70) | 30,000 hrs | Accessories | n/a |
| Unified Glare Ratio (UGR) | n/a | Suspension Height - min/max | NA |
| Optics | 110D | Maximum Run Length | NA |
| Driver | Integrated driver | | |

COMMERCIAL CODE

EH313LLED

I2NC

919023001234

DESCRIPTION

EH313L LED Twin Motion Sensor

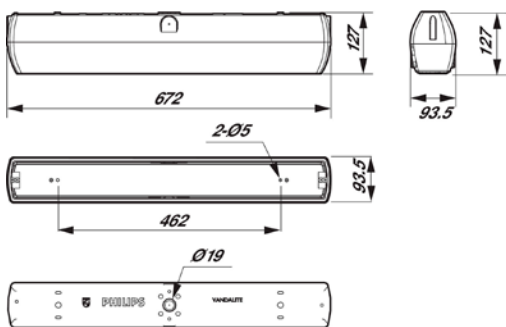
Vandalite

Vandalite is a surface mounted fluorescent luminaire that, as its name implies, is a tough, dust and watertight product for situations where semi-outdoor exposure and vandalism can be a problem. The Vandalite has an IP65 rating, being totally dustproof and waterproof. Its robust construction makes it virtually vandal-proof. The body is injection moulded, glass filled nylon for long life and added strength. The reflector is of pressed prepainted steel with integral gear and rota-lock lampholders for 1xTL5 14W lamp or with moulding and posts for 2xPL 18W or 1xPL 36W lamps.



Features and Benefits

- Dust, water and impact protection
- Optimum light distribution and performance
- Easy installation and maintenance



| Product ID | L (mm) | W (mm) | H (mm) |
|------------|--------|--------|--------|
| TCW098 T5 | 672 | 93 | 126 |
| TCW098 T8 | 672 | 93.5 | 127 |

Dimensions in mm (Nominal)

| VANDALITE | | | |
|------------------------------|-------------------------------------|--------------|-------------------------------------|
| Family Name | Vandalite | Installation | Screw mounted |
| Model | TCW098 | IP rating | IP65 |
| Watt | 14W (T5), 18W/36W (T8) | Weight | 2kg |
| Lamp Colour | N/A | Application | Residential, Industrial, Commercial |
| Colour Rendering Index (CRI) | N/A | Accessories | N/A |
| Flex and Plug | No | | |
| Driver | High Frequency Ballast/Conventional | | |

| COMMERCIAL CODE | I2NC | DESCRIPTION |
|-----------------|--------------|---------------------------|
| TCW098I14T5CL | 910403630084 | TCW098 1xTL5 14W K HFS CL |
| TCW098I14T5OP | 910403630085 | TCW098 1xTL5 14W K HFS OP |
| FCW09824CFLOP | 911400606880 | FCW098 IX Tornado 24W K O |





Consumer Luminaires







LEDINO

Giving light a new experience

Minimalist and elegant. Simple yet versatile. Philips Ledino injects a natural sense of purity and beauty into your home.

With a linear design and an integrated LED light source, it's ideal for the sophisticated living room, dining area or bedroom. And perfect for the savvy urbanite.

You'll enjoy natural white light adjustable to the preferred atmosphere, thanks to its state-of-the-art Power LEDs. Together, they give your interior a beautiful diffused white accent, and an energy-efficient light source that lasts up to 20,000 hours.

Time to feel right at home with the future.



Tunable White

A simple key lets you choose between four different white light colour temperatures (3450, 3100, 2700, 2500 Kelvin) on selected fittings.



69092/31 Suspension Light



69092/31 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | White, aluminium |
| IP rating | IP20 |
| Lamp | LED 4 x 7.5W, 2700K |
| Dimensions (mm) | 900 x 106 x MAX 1480 (adjustable height) |
| Commercial Code | 69092/29/86 (2.7K) |

69092/87 Suspension Light



69092/87 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Aluminium |
| IP rating | IP20 |
| Lamp | LED 4 x 7.5W, 2700K |
| Dimensions (mm) | 900 x 106 x MAX 1480 (adjustable height) |
| Commercial Code | 69092/11/86 (2.7K) |

69064/87 Wall Light



69064/87 WALL LIGHT

| | |
|-----------------|--|
| Colour/Finish | Grey |
| IP rating | IP20 |
| Lamp | LED 1 x 2.5W, 4000K or 2700K |
| Dimensions (mm) | 120 x 120 x 506 |
| Commercial Code | 69064/87/86 (4K) or 69064/99/86 (2.7K) |

69070/31 Wall/Ceiling Light



69070/31 WALL/CEILING LIGHT

| | |
|-----------------|--|
| Colour/Finish | White |
| IP rating | IP20 |
| Lamp | LED 1 x 7.5W, 4000K or 2700K |
| Dimensions (mm) | 72 x 168 x 130 |
| Commercial Code | 69070/31/86 (4K) or 69070/29/86 (2.7K) |

69072/31 Wall/Ceiling Light



69072/31 WALL/CEILING LIGHT

| | |
|-----------------|--|
| Colour/Finish | White |
| IP rating | IP20 |
| Lamp | LED 2 x 7.5W, 4000K or 2700K |
| Dimensions (mm) | 315 x 133 x 73 |
| Commercial Code | 69072/31/86 (4K) or 69072/29/86 (2.7K) |



69074 Wall/Ceiling Light



69074 WALL/CEILING LIGHT

| | |
|-----------------|--|
| Colour/Finish | White |
| IP rating | IP20 |
| Lamp | LED 4 x 7.5W, 4000K or 2700K |
| Dimensions (mm) | 284 x 284 x 73 |
| Commercial Code | 69074/31/86 (4K) or 69074/29/86 (2.7K) |

69080/87 Wall/Ceiling Light



69080/87 WALL/CEILING LIGHT

| | |
|-----------------|---------------------|
| Colour/Finish | Grey |
| IP rating | IP20 |
| Lamp | LED 1 x 7.5W, 4000K |
| Dimensions (mm) | 136 x 132 x 102 |
| Commercial Code | 69080/87/86 (4K) |

69082/87 Wall/Ceiling Light



69082/87 WALL/CEILING LIGHT

| | |
|-----------------|---------------------|
| Colour/Finish | Grey |
| IP rating | IP20 |
| Lamp | LED 2 x 7.5W, 4000K |
| Dimensions (mm) | 185 x 503 x 58 |
| Commercial Code | 69082/87/86 (4K) |

69084/87 Wall/Ceiling Light



69084/87 WALL/CEILING LIGHT

| | |
|-----------------|--|
| Colour/Finish | Grey |
| IP rating | IP20 |
| Lamp | LED 4 x 7.5W, 4000K or 2700K |
| Dimensions (mm) | 185 x 903 x 58 |
| Commercial Code | 69084/87/86 (4K) or 69084/99/86 (2.7K) |

69089/31 Wall Light



69089/31 WALL LIGHT

| | |
|-----------------|--|
| Colour/Finish | White |
| IP rating | IP20 |
| Lamp | LED 2 x 2.5W, 4000K or 2700K |
| Dimensions (mm) | 95 x 127 x 55 |
| Commercial Code | 69089/31/86 (4K) or 69089/29/86 (2.7K) |



ESSENTIAL LED

Slimline Ceiling Oyster Range

The new Philips Essential LED Ceiling range delivers the advantages of LED technology in surface mount ceiling luminaires. These are an ideal replacement for older incandescent, ecohalogen or fluorescent based oysters. The LED light sources used are up to 75% more energy efficient versus traditional light sources¹. Using LED allows a stylish slim line design only 50mm thick for a clean, unobtrusive installation.

LED deliver longer life than conventional light sources with up to 15,000 hours² of hassle free light delivered instantly in a soft uniform manner via durable, yellowing & chip resistant acrylic diffusers. The range offers a choice of 3 popular sizes and warm white or cool white colour temperatures.

1. Ultra efficient LED light source saves up to 75% energy vs. Philips EcoClassic halogen lamps with similar light output.
2. Up to 15,000 hours lifetime at 70% lumen maintenance in residential use.



30804 Slimline Ceiling Oyster 12W



30804 CEILING OYSTER 12W

| | |
|-----------------|--|
| Colour/Finish | White bezel |
| Lamp | LED 12W, 3000K or 5700K |
| Dimensions (mm) | 290 x 290 x 50 |
| Commercial Code | 30804/61/46 (3K) or 30804/31/46 (5.7K) |

30805 Slimline Ceiling Oyster 17W



30805 CEILING OYSTER 17W

| | |
|-----------------|--|
| Colour/Finish | White bezel |
| Lamp | LED 17W, 3000K or 5700K |
| Dimensions (mm) | 350 x 350 x 50 |
| Commercial Code | 30805/61/46 (3K) or 30805/31/46 (5.7K) |

30806 Slimline Ceiling Oyster 22W



30806 CEILING OYSTER 22W

| | |
|-----------------|--|
| Colour/Finish | White bezel |
| Lamp | LED 22W, 3000K or 5700K |
| Dimensions (mm) | 380 x 380 x 50 |
| Commercial Code | 30806/61/46 (3K) or 30806/31/46 (5.7K) |





ROOMSTYLERS

Express your style with light

Understated, yet thoroughly distinct. The Philips Roomstylers contemporary collection blends effortlessly into any modern home décor, thanks to light fixtures that span a wide spectrum of colours and materials.

Available in both stand-alone and coordinated sets, the range includes wall and ceiling lights. All designed to give you the flexibility you need to complement your lifestyle.

TCG701 Ceiling/Wall Light



TCG701 CEILING/WALL LIGHT

| | |
|-----------------|---|
| Colour/Finish | White colour, sand blasted glass, steel |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 340 x 340 x 100 |
| Commercial Code | 30010/17/46 |

TCG702 Ceiling/Wall Light



TCG702 CEILING/WALL LIGHT

| | |
|-----------------|--|
| Colour/Finish | Nickel finish, sand blasted glass, steel |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 360 x 360 x 96 |
| Commercial Code | 30012/17/46 |

TCG700 Ceiling/Wall Light



TCG700 CEILING/WALL LIGHT

| | |
|-----------------|--|
| Colour/Finish | Gold finish, sand blasted glass, steel |
| Lamp | Lamp included |
| Dimensions (mm) | 340 x 340 x 100 |
| Commercial Code | 30052/01/86 |

TCG700 Ceiling/Wall Light



TCG700 CEILING/WALL LIGHT

| | |
|-----------------|---|
| Colour/Finish | White, chrome finish, sand blasted glass, steel |
| Lamp | Lamp included |
| Dimensions (mm) | 340 x 340 x 100 |
| Commercial Code | 30052/11/86 |

TCG700 Ceiling/Wall Light



TCG700 CEILING/WALL LIGHT

| | |
|-----------------|---|
| Colour/Finish | White colour, sand blasted glass, steel |
| Lamp | Lamp included |
| Dimensions (mm) | 340 x 340 x 100 |
| Commercial Code | 30052/56/86 |

QCG307 Ceiling/Wall Light



QCG307 CEILING/WALL LIGHT

| | |
|-----------------|--|
| Colour/Finish | White, nickel finish, sand blasted glass |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 370 x 370 x 116 |
| Commercial Code | 70107/86/17 |

QCG307 Ceiling/Wall Light



QCG307 CEILING/WALL LIGHT

| | |
|-----------------|----------------------------------|
| Colour/Finish | White colour, sand blasted glass |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 370 x 370 x 116 |
| Commercial Code | 70107/86/31 |

QWG306 Wall Light



QWG306 WALL LIGHT

| | |
|-----------------|------------------------|
| Colour/Finish | White, glass and steel |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 265 x 95 x 255 |
| Commercial Code | 33710/30/86 |

FWG301 Wall Light



FWG301 WALL LIGHT

| | |
|-----------------|---------------------------------------|
| Colour/Finish | Beige, sand blasted glass with fabric |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 315 x 111 x 168 |
| Commercial Code | 33200/30/76 |

QWG311 Wall Light



QWG311 WALL LIGHT

| | |
|-----------------|----------------------------|
| Colour/Finish | Dark grey, steel and glass |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 401 x 103 x 90 |
| Commercial Code | 33206/93/86 |





KIDSPLACE

Fun spaces with light & colour

Light up a child's world with Philips Kidsplace – a specially designed collection of child-safe light fittings. Available in diverse designs with playful colours, they transform a child's bedroom into a magical wonderland.

Its wide range of ambient lighting gives a sense of cosiness and warmth, encouraging children to be themselves and have fun. Turning on the switch is like stepping into a make-believe world of a child's creative imaginings.

This collection is the perfect touch for a child to play, learn, create - a dream!

QCG316 Ceiling Light



QCG316 CEILING LIGHT

| | |
|-----------------|---------------------------|
| Colour/Finish | Mixed colour, glass, wood |
| IP rating | IP20 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 400 x 400 x 430 |
| Commercial Code | 40153/55/86 |

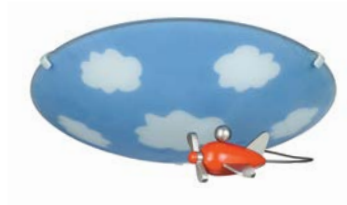
QPG308 Suspension Light



QPG308 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, steel, synthetics, wood |
| IP rating | IP20 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 185 x 234 x MAX 1500 (adjustable height) |
| Commercial Code | 40279/55/86 |

QCG310 Ceiling Light



QCG310 CEILING LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, steel, satinated glass, wood |
| IP rating | IP20 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 300 x 300 x 135 |
| Commercial Code | 30110/55/56 |

QCG311 Ceiling Light



QCG311 CEILING LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, steel, satinated glass, wood |
| IP rating | IP20 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 300 x 300 x 135 |
| Commercial Code | 30111/55/86 |

QCG315 Ceiling Light



QCG315 CEILING LIGHT

| | |
|-----------------|----------------------------------|
| Colour/Finish | Mixed colour, glass, steel, wood |
| IP rating | IP20 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 400 x 400 x 356 |
| Commercial Code | 30112/55/86 |

QPG314 Suspension Light



QPG314 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, wood, steel |
| IP rating | IP20 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 420 x 420 x MAX 1300 (adjustable height) |
| Commercial Code | 40178/55/86 |

QPG315 Suspension Light



QPG315 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, steel, synthetics, wood |
| IP rating | IP20 |
| Lamp | Ambiance E27, lamp included |
| Dimensions (mm) | 267 x 267 x MAX 1200 (adjustable height) |
| Commercial Code | 40204/55/86 |

FPG302 Suspension Light



FPG302 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, wood, steel |
| IP rating | IP20 |
| Lamp | Ambiance E27, lamp included |
| Dimensions (mm) | 470 x 130 x MAX 1250 (adjustable height) |
| Commercial Code | 40429/55/86 |

QPG313 Suspension Light



QPG313 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Yellow, wood, synthetics |
| IP rating | IP20 |
| Lamp | Ambiance E27, lamp included |
| Dimensions (mm) | 380 x 110 x MAX 1050 (adjustable height) |
| Commercial Code | 75500/86/34 |

QPG316 Suspension Light



QPG316 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, wood, synthetics |
| IP rating | IP20 |
| Lamp | Ambiance E27, lamp not included |
| Dimensions (mm) | 300 x 350 x MAX 1100 (adjustable height) |
| Commercial Code | 78621/86/55 |

40229 Suspension Light



40229 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Mixed colour, wood |
| IP rating | IP20 |
| Lamp | Ambiance E27, lamp included |
| Dimensions (mm) | 320 x 270 x MAX 1500 (adjustable height) |
| Commercial Code | 40229/55/86 |

40295 Suspension Light



40295 SUSPENSION LIGHT

| | |
|-----------------|--|
| Colour/Finish | Purple and pink, wood |
| IP rating | IP20 |
| Lamp | Ambiance E27, lamp included |
| Dimensions (mm) | 493.7 x 394.8 x MAX 1500 (adjustable height) |
| Commercial Code | 40295/49/86 |

69112 Guidelight Bug



69112 GUIDELIGHT BUG

| | |
|-----------------|------------------------|
| Colour/Finish | Red colour, synthetics |
| Switch | Motion sensor |
| Lamp | LED 2 x 0.06W included |
| Dimensions (mm) | 105 x 80 x 105 |
| Commercial Code | 69112/32/46 |

69112 Guidelight Bee



69112 GUIDELIGHT BEE

| | |
|-----------------|---------------------------|
| Colour/Finish | Yellow colour, synthetics |
| Switch | Motion sensor |
| Lamp | LED 2 x 0.06W included |
| Dimensions (mm) | 105 x 80 x 105 |
| Commercial Code | 69112/34/46 |







Aquafit

Turn your bathroom into a spa

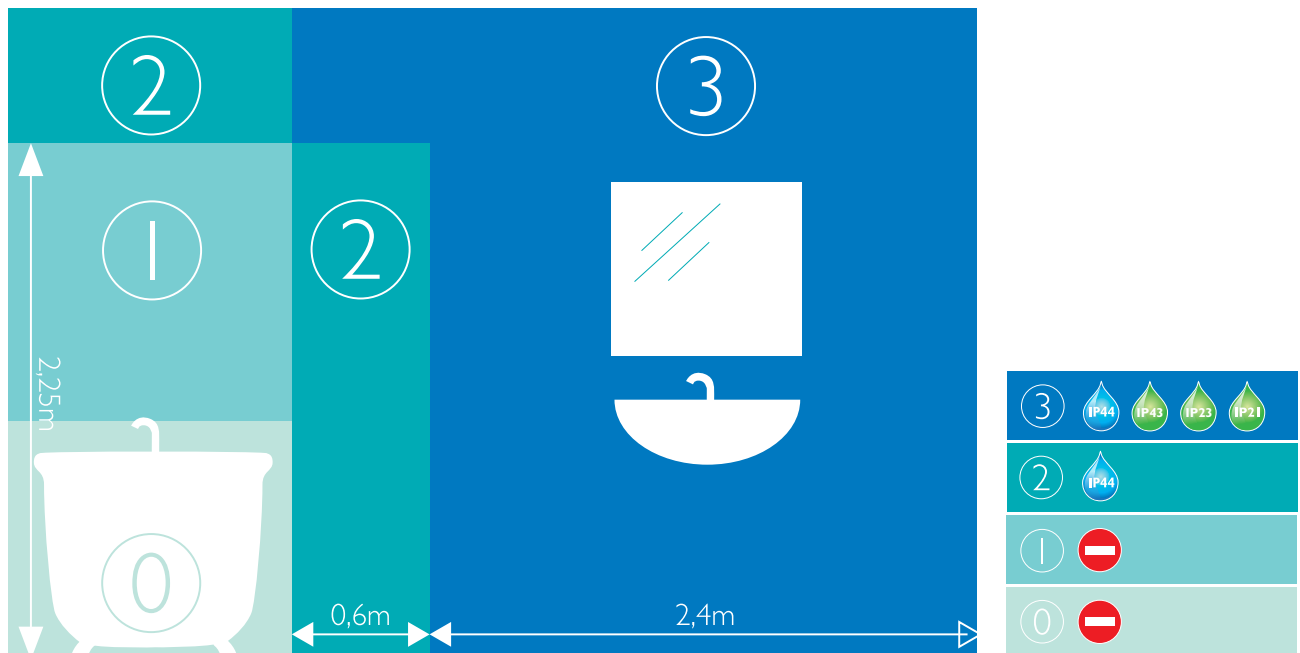
Inspired by the beauty of water, Philips Aquafit turns your bathroom into a rejuvenating experience. You'll find bright task and general lighting imbued with style and functionality.

Apply make-up or shave effortlessly with tasteful task lights placed around your mirror. Or create a soothing ambience with basic illumination from our ceiling lights.

All products are specially designed with Ingress Protection (IP) rating, without compromising on brightness or style. Total peace of mind in your oasis of calm.

The right light for the right area

Take note when choosing bathroom lighting as there are strict regulations concerning the type of light you can use. The following information is a guide to help you understand what light fittings can be placed where.



Area 0 - 1 – Bathtub area

Philips does not recommend the use of any lighting fixtures in these areas.

Area 2 – Ceiling and outside shower area

General lighting from luminaires installed on the ceiling can provide the illumination needed here.

Safety requirement:

This area stretches to 0.6m outside the bath/shower and 2.25m above the floor. Since there is a risk of water accidentally splashing on the fitting, an IP rating of at least IP44 is required.

Area 3 – Grooming area near vanity

This area requires bright shadow free light for task orientated activities like shaving or make up application.

Safety requirement:

This area stretches beyond zone 2. As long as there is no chance of the fixture being splashed with water or steam, an IP21 rating is sufficient.

A higher IP rating can always be used to ensure added safety.

QCZ800 Ceiling Light



QCZ800 CEILING LIGHT

| | |
|-----------------|------------------------|
| Colour/Finish | White colour, glass |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 260 × 260 × 120 |
| Commercial Code | 32005/31/76 |

QCZ806 Ceiling Light



QCZ806 CEILING LIGHT

| | |
|-----------------|------------------------|
| Colour/Finish | White colour, glass |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 320 × 320 × 110 |
| Commercial Code | 32066/31/76 |

QCZ802 Ceiling/Wall Light



QCZ802 CEILING/WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, steel with glass |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 315 × 315 × 100 |
| Commercial Code | 32010/11/76 |

QCZ802 Ceiling/Wall Light



QCZ802 CEILING/WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Nickel colour, steel with glass |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 315 × 315 × 100 |
| Commercial Code | 32010/17/76 |

32047 Wall Light



32047 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP44 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 202 × 100 × 163 |
| Commercial Code | 32047/11/66 |

32048 Wall Light



32048 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP44 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 190 x 320 x 163 |
| Commercial Code | 32048/11/66 |

32049 Wall Light



32049 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP44 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 190 x 500 x 163 |
| Commercial Code | 32049/11/66 |

32029 Wall Light



32029 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 190 x 100 x 165 |
| Commercial Code | 32029/11/66 |

32030 Wall Light



32030 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 190 x 320 x 165 |
| Commercial Code | 32030/11/66 |

32031 Wall Light



32031 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 190 x 460 x 165 |
| Commercial Code | 32031/11/66 |

32032 Wall Light



32032 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 218 x 100 x 200 |
| Commercial Code | 32032/11/66 |

32033 Wall Light



32033 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 218 x 320 x 200 |
| Commercial Code | 32033/11/66 |

32035 Wall Light



32035 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 241 x 100 x 247 |
| Commercial Code | 32035/11/66 |

32036 Wall Light



32036 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 240 x 320 x 185 |
| Commercial Code | 32036/11/66 |

32044 Wall Light



32044 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 196 x 100 x 167 |
| Commercial Code | 32044/11/66 |

32045 Wall Light



32045 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 183 x 320 x 167 |
| Commercial Code | 32045/11/66 |

32046 Wall Light



32046 WALL LIGHT

| | |
|-----------------|---------------------------------|
| Colour/Finish | Chrome colour, metal with glass |
| IP rating | IP21 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 185 x 500 x 167 |
| Commercial Code | 32046/11/66 |





OUTERSTYLERS

At home with nature

The Philips Outerstylers collection puts you right at home with the great outdoors. Water and weather-resistant, it illuminates your balcony or garden in style.

Designed to leave a lasting impression, you'll find a wide selection of outdoor lighting made from long-lasting materials. So your home – and the space it nestles in – exudes a beauty that's truly enduring.

Yet the collection does more than enhance your outdoor spaces. It ensures your pathways, steps and porches are well and safely lit, preventing accidents and protecting your family from intruders – without compromising on style or elegance.

For the perfect sanctuary, inside and out.



Designed for safety and long life

EWS300 Wall Light



EWS300 WALL LIGHT

| | |
|-----------------|---|
| Colour/Finish | Stainless steel finish. Stainless steel, synthetics, aluminium, 360° light output |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 235 x 95 x 260 |
| Commercial Code | 17086/47/46 |

EWP300 Wall Light



EWP300 WALL LIGHT

| | |
|-----------------|--|
| Colour/Finish | Light Grey colour. Aluminium, synthetics |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 356 x 93 x 75 |
| Commercial Code | 17130/87/46 |

I7105 Wall Light



I7105 WALL LIGHT

| | |
|-----------------|-----------------------------------|
| Colour/Finish | Light Grey, aluminium, synthetics |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 113 x 290 x 130 |
| Commercial Code | 17105/87/46 |

I7105 Wall Light



I7105 WALL LIGHT

| | |
|-----------------|-----------------------------------|
| Colour/Finish | Anthracite, aluminium, synthetics |
| IP rating | IP44 |
| Lamp | E27, lamp not included |
| Dimensions (mm) | 113 x 290 x 130 |
| Commercial Code | 17105/93/46 |

I7173 Wall Light



I7173 WALL LIGHT

| | |
|-----------------|------------------------------|
| Colour/Finish | Inox, stainless steel, glass |
| IP rating | IP44 |
| Lamp | E14, lamp not included |
| Dimensions (mm) | 176 x 93 x 200 |
| Commercial Code | 17173/47/46 |





LED DESK LAMPS

Give your eyes a break

Breeze through long work sessions with the Philips range of desk lamps to assist with any of your task lighting needs.

The collection of Philips desk lamps are functional with a custom designed reflector which enables apt lighting, while the 2D flexibility lets you direct light along the vertical plane.



Eyecare Black



LED DESK LIGHT EYECARE BLACK

| | |
|-----------------|------------------------|
| Colour/Finish | Black |
| Lamp | LED 5W, 6500K Dimmable |
| Commercial Code | 69195/30/46 |

Eyecare White



LED DESK LIGHT EYECARE WHITE

| | |
|-----------------|------------------------|
| Colour/Finish | White |
| Lamp | LED 5W, 6500K Dimmable |
| Commercial Code | 69195/31/46 |

Vane Blue



LED DESK LIGHT VANE BLUE

| | |
|-----------------|---|
| Colour/Finish | Blue |
| Lamp | LED 7W, 6500K Collapsible 2D Swivel arm Dimmable – 3 step tap control |
| Dimensions (mm) | 415 x 135 x 38 |
| Commercial Code | 31668/35/46 |

Vane Pink



LED DESK LIGHT VANE PINK

| | |
|-----------------|---|
| Colour/Finish | Pink |
| Lamp | LED 7W, 6500K Collapsible 2D Swivel arm Dimmable – 3 step tap control |
| Dimensions (mm) | 415 x 135 x 38 |
| Commercial Code | 31668/28/46 |

Vane Grey



LED DESK LIGHT VANE GREY

| | |
|-----------------|---|
| Colour/Finish | Grey |
| Lamp | LED 7W, 6500K Collapsible 2D Swivel arm Dimmable – 3 step tap control |
| Dimensions (mm) | 415 x 135 x 38 |
| Commercial Code | 31668/87/46 |





LIVING COLORS

Set the mood

Imagine a room with a personality that reflects your own. One that creates the perfect ambience. Dictated not by a mere coat of paint but the entire spectrum of the rainbow.

Want a little 'me' time? Try a soothing blue. Feeling light? Get cheery pink. Romance in the air? Turn passionate red.

All inspired by you.

Living Colors Micro-White



LIVING COLORS MICRO-WHITE

| | |
|-----------------|---------------------------------|
| Colour/Finish | White |
| Lamp | LED 1 x 5W (creates 64 colours) |
| Dimensions (mm) | 110 x 120 x 100 |
| Commercial Code | 70018/31/46 |

Living Colors Iris-Black



LIVING COLORS IRIS-BLACK

| | |
|-----------------|---|
| Colour/Finish | Black |
| Lamp | LED 1 x 10W (creates 16 million colours) Dimmable |
| Dimensions (mm) | 218 x 218 x 225 |
| Commercial Code | 70999/30/46 |





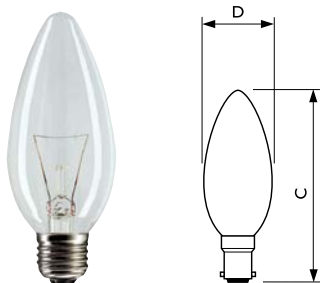
Lamps



ONS

Classictone Candle

Decorative candle shaped lamps for chandeliers and ornamental wall bracket lighting. Use clear to add sparkle or frosted to give a softer effect.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 25W B15 | 98 | 35 |
| 25W B22 | 95 | 35 |
| 25W E14 | 100 | 35 |

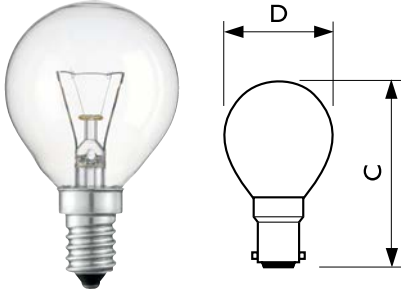
Dimensions in mm

CLASSICTONE CANDLE

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour | Carton Qty |
|-----------------|----------------|-------------|---------|------------|-------------------------------|------------------------------|---------|---------------|
| C35CL25W240VBC | 25 | B22 | 240V | B35 | 200 | 1000 | Clear | 50 |
| C35FR25W240VBC | 25 | B22 | 240V | B35 | 205 | 1000 | Frosted | 50 |
| C35CL25W240VSBC | 25 | B15 | 240V | B35 | 210 | 1000 | Clear | 50 |
| C35FR25W240VSBC | 25 | B15 | 240V | B35 | 205 | 1000 | Frosted | 50 |
| C35CL25W240VSES | 25 | E14 | 240V | B35 | 210 | 1000 | Clear | 100 |
| C35FR25W240VSES | 25 | E14 | 240V | B35 | 210 | 1000 | Frosted | 100 |

Classicitone Lustre

A small spherical lamp for many decorative applications. Available in clear or frosted in a range of bases.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| B15 | 76.5 | 45 |
| B22 | 71.5 | 45 |
| E14 | 78 | 45 |
| E27 | 73 | 45 |

Dimensions in mm

CLASSICTONE LUSTRE

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour | Carton Qty |
|---------------|----------------|-------------|---------|------------|-------------------------------|------------------------------|---------|---------------|
| LCL25W240VBC | 25 | B22 | 240V | P45 | 200 | 1000 | Clear | 100 |
| LFR25W240VBC | 25 | B22 | 240V | P45 | 210 | 1000 | Frosted | 100 |
| LCL25W240VSBC | 25 | B15 | 240V | P45 | 210 | 1000 | Clear | 100 |
| LFR25W240VSBC | 25 | B15 | 240V | P45 | 205 | 1000 | Frosted | 100 |
| LCL25W240VES | 25 | E27 | 240V | P45 | 200 | 1000 | Clear | 100 |
| LFR25W240VES | 25 | E27 | 240V | P45 | 210 | 1000 | Frosted | 100 |
| LCL25W240VSES | 25 | E14 | 240V | P45 | 210 | 1000 | Clear | 100 |
| LFR25W240VSES | 25 | E14 | 240V | P45 | 210 | 1000 | Frosted | 100 |

Practitone Philinea

An elegant linear architectural lamp in an Argenta (white) finish. The Practitone has a specially positioned lamp base which allows installation in continuous strips of light. It is sold as a double peg (S14s) version.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 35W | 300 | 30 |
| 60W | 500 | 30 |

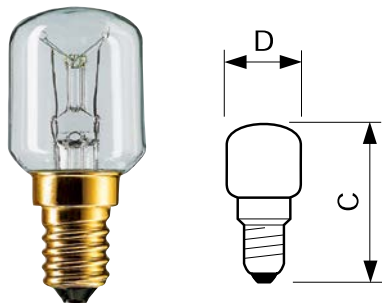
Dimensions in mm

PRACTITONE PHILINEA

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour | Carton Qty |
|----------------|----------------|-------------|---------|------------|-------------------------------|------------------------------|--------|---------------|
| PHIL35W240VS14 | 35 | S14s | 240V | T30 | 270 | 1000 | White | 25 |
| PHIL60W240VS14 | 60 | S14s | 240V | T30 | 420 | 1000 | White | 25 |

Practitone Tubular

Small incandescent lamps for areas with limited space.



| Product ID | Overall Length C max. | Diameter D max. |
|---------------|--------------------------|--------------------|
| 15W B15 PILOT | 52 | 22 |
| 15W B22 PILOT | 52 | 25 |
| 15W E14 PILOT | 57 | 25 |
| 15W E14 OVEN | 49 | 22 |
| 25W E14 OVEN | 57 | 25 |
| 25W E27 OVEN | 61 | 29 |

Dimensions in mm

PILOT LAMPS

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour | Unit | Carton Qty |
|-----------------|----------------|-------------|---------|------------|-------------------------------|------------------------------|--------|------|---------------|
| T25I5W240VBCB2 | 15 | B22 | 240V | T25 | 90 | 1000 | Clear | SET | 5 |
| T25I5W240VSESB2 | 15 | E14 | 240V | T25 | 115 | 1000 | Clear | SET | 5 |
| T22I5W240VSBCEB | 15 | B15 | 240V | T25 | 90 | 1000 | Clear | PCE | 5 |

OVEN LAMPS

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour | Unit | Carton Qty |
|-----------------|----------------|-------------|----------|------------|-------------------------------|------------------------------|--------|------|---------------|
| OVENI5W235VSESB | 15 | E14 | 230-240V | T22 | 90 | 1000 | Clear | PCE | 5 |
| OVEN25W240VSESB | 25 | E14 | 230-240V | T25 | 172 | 1000 | Clear | PCE | 5 |
| OVEN25W240VESB | 25 | E27 | 230-240V | T29 | 162 | 1000 | Clear | PCE | 5 |

Partytone Coloured

Coloured decorative lamps with internally colour-coated bulb in standard A-shape. For use indoors and outdoors.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 40W B22 | 95 | 55 |

Dimensions in mm

PARTYTONE COLOURED

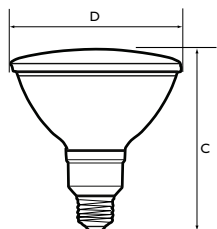
| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour | Carton Qty |
|-------------|----------------|-------------|---------|------------|-------------------------------|------------------------------|--------|---------------|
| YE40W240VBC | 40 | B22 | 240V | A55 | 300 | 1000 | Yellow | 100 |
| BL40W240VBC | 40 | B22 | 240V | A55 | 33 | 1000 | Blue | 100 |
| GR40W240VBC | 40 | B22 | 240V | A55 | 110 | 1000 | Green | 100 |
| RE40W240VBC | 40 | B22 | 240V | A55 | 80 | 1000 | Red | 100 |

Floodlight PAR38 and PAR38 Colour

Made from hard pressed glass, making them suitable for indoor and outdoor applications.

Spot versions have a stippled front reflector producing a narrow homogenous beam.

Flood versions have a front refractor composed of prismatic elements, and are available in a coloured option.



| Product ID | Overall Length C max. | Diameter D max. |
|-----------------------|--------------------------|--------------------|
| 80W E27 | 137 | 122.5 |
| 120W E27 | 137 | 121 |
| 80W E27 Colour | 137 | 122.5 |
| 80W E27 Anti Mosquito | 137 | 121 |

Dimensions in mm

FLOODLIGHT PAR38

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Beam Angle ° | Luminous Intensity (cd) | Average Lifetime (hrs) | Carton Qty |
|---------------|----------------|-------------|---------|------------|--------------------|-------------------------------|------------------------------|---------------|
| PAR38FL80WES | 80 | E27 | 240V | PAR38 | 30 | 1800 | 2000 | 6 |
| PAR38FL120WES | 120 | E27 | 240V | PAR38 | 30 | 3100 | 2000 | 6 |

PAR38 COLOUR

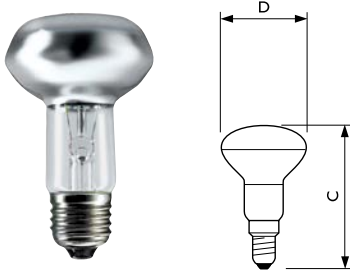
| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Average Lifetime (hrs) | Colour | Carton Qty |
|----------------|----------------|-------------|---------|------------|------------------------------|--------|---------------|
| PAR38FLYE80WES | 80 | E27 | 240V | PAR38 | 1000 | Yellow | 6 |
| PAR38FLGR80WES | 80 | E27 | 240V | PAR38 | 1000 | Green | 6 |
| PAR38FLBL80WES | 80 | E27 | 240V | PAR38 | 1000 | Blue | 6 |
| PAR38FLR80WES | 80 | E27 | 240V | PAR38 | 1000 | Red | 6 |

PAR38 ANTI MOSQUITO

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Carton Qty |
|----------------|----------------|-------------|---------|------------|-------------------------------|------------------------------|---------------|
| PAR38FLAM80WES | 80 | E27 | 240V | PAR38 | 560 | 2000 | 6 |

Reflector Ring Mirror

Reflector lamps based on advanced spotlighting technology. Used for display lighting in shops, hotels, restaurants and homes.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| R39 E14 | 67 | 39 |
| NR50 E14 | 86 | 50 |
| NR63 E27 | 104.5 | 63 |
| NR63 B22 | 103 | 63 |

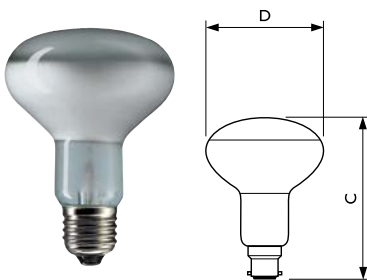
Dimensions in mm

REFLECTOR RING MIRROR

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Beam Angle ° | Luminous Intensity (cd) | Average Lifetime (hrs) | Unit | Carton Qty |
|-----------------|----------------|-------------|---------|------------|--------------------|-------------------------------|------------------------------|------|---------------|
| R3930W245VSES | 30 | E14 | 240V | R39 | 45 | 160 | 1000 | PCE | 30 |
| R50SP40W230VSES | 40 | E14 | 240V | NR50 | 30 | 400 | 1000 | PCE | 30 |
| R63SP40W240VES | 40 | E27 | 240V | NR63 | 30 | 420 | 1000 | PCE | 6 |
| R63SP60W240VBC | 60 | B22 | 240V | NR63 | 30 | 750 | 1000 | PCE | 6 |
| R63SP60W240VES | 60 | E27 | 240V | NR63 | 30 | 1050 | 1000 | PCE | 6 |
| R63S60240ES2PK2 | 60 | E27 | 240V | NR63 | 30 | 1050 | 1000 | SET | 12 |
| R63S40240ES2PK2 | 40 | E27 | 240V | NR63 | 30 | 1050 | 1000 | SET | 12 |

Reflector Standard Floodline

Reflector lamps based on advanced spotlighting technology. Used for display lighting in shops, hotels, restaurants and homes.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| E80 B22 | 113 | 80 |
| E80 E27 | 114.5 | 80 |

Dimensions in mm

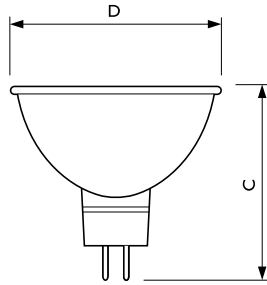
REFLECTOR STANDARD FLOODLINE

| Shortcode | Wattage (W) | Cap Base | Voltage | Bulb Shape | Beam Angle ° | Luminous Intensity (cd) | Average Lifetime (hrs) | Unit | Carton Qty |
|---------------|----------------|-------------|---------|------------|--------------------|-------------------------------|------------------------------|------|---------------|
| E8060W240VES | 60 | E27 | 240V | E80 | 80 | 270 | 1000 | PCE | 6 |
| E80100W240VES | 100 | E27 | 240V | E80 | 80 | 530 | 1000 | PCE | 6 |
| E8075W240VES | 75 | E27 | 240V | E80 | 80 | 360 | 1000 | PCE | 12 |
| E80100W240VBC | 100 | B22 | 240V | E80 | 80 | 530 | 1000 | PCE | 6 |



Masterline ES Dichroic

An advanced range of low voltage halogen dichroic lamps featuring the leading infrared reflecting technology for maximum energy savings. Masterline Energy Saving lamps feature a unique Philips patented burner method enabling higher efficiency with reduction of energy usage by up to 30%. The diamond backed dichroic reflector provides a precision beam of bright, white sparkling light. Lifetime 5,000 hours. Improved version featuring a single-ended burner and flat glass to match the look of standard dichroics.



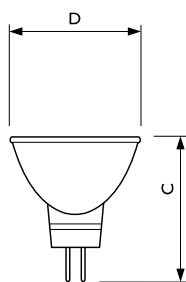
| Product ID | Overall Length C max. | Diameter D max. |
|------------------|--------------------------|--------------------|
| GU5.3 | 50.5 | 51 |
| Dimensions in mm | | |

MASTERLINE ES DICHROIC

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Carton Qty |
|-----------------|-------------|----------|---------|-------------------------|------------------------|-----------------|--------------|------------|
| 18132 | 20 | GU5.3 | 12V | 6500 | 5000 | 3000 | 50 | 20 |
| 18133 | 20 | GU5.3 | 12V | 1000 | 5000 | 3000 | 36 | 20 |
| 18136 | 30 | GU5.3 | 12V | 11000 | 5000 | 3000 | 36 | 20 |
| 18137 | 30 | GU5.3 | 12V | 750 | 5000 | 3000 | 60 | 20 |
| 18138 | 35 | GU5.3 | 12V | 13500 | 5000 | 3000 | 8 | 20 |
| 18139 | 35 | GU5.3 | 12V | 4400 | 5000 | 3000 | 24 | 20 |
| 18140 | 35 | GU5.3 | 12V | 2200 | 5000 | 3000 | 36 | 20 |
| 18141 | 35 | GU5.3 | 12V | 1050 | 5000 | 3000 | 60 | 20 |

Brilliantline Pro Dichroic

A quality low voltage halogen reflector lamp consisting of a high pressure xenon gas filled burner, optically positioned in a Dichroic glass reflector. Designed to transmit heat through the back of the lamp and reflect light to the front, resulting in a “cool” beam. Brilliantline Pro lamps feature a high intensity beam with a clearly defined beam spread and have excellent lumen maintenance over their life. They come complete with front glass and the universal burning position. Lifetime 4,000 hours.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| GU4 | 40 | 35.3 |
| GU5.3 | 46 | 50.8 |

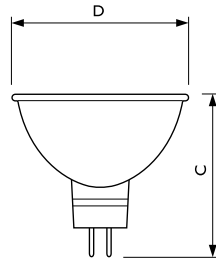
Dimensions in mm

BRILLIANTLINE PRO DICHROIC

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Carton Qty |
|-----------------|----------------|-------------|---------|-------------------------------|------------------------------|-----------------------|--------------------|---------------|
| I4612 | 20 | GU5.3 | 12V | 780 | 4000 | 3000 | 36 | 50 |
| I4615 | 35 | GU5.3 | 12V | 3100 | 4000 | 3000 | 24 | 50 |
| I4616 | 35 | GU5.3 | 12V | 1500 | 4000 | 3000 | 36 | 50 |
| I4617 | 35 | GU5.3 | 12V | 700 | 4000 | 3000 | 60 | 50 |
| I4625 | 20 | GU4 | 12V | 800 | 4000 | 3000 | 30 | 50 |
| I4627 | 35 | GU4 | 12V | 1500 | 4000 | 3000 | 30 | 50 |

Essential Plus Dichroic

Low voltage halogen reflector lamps, designed to provide crisp white light. Feature a “cool” beam dichroic reflector and UV block on the burner. The closed version offers additional protection from UV via the glass front. Ideally suited for general purpose display and domestic lighting. Lifetime 3,000 hours.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| GU5.3 | 46 | 51 |

Dimensions in mm

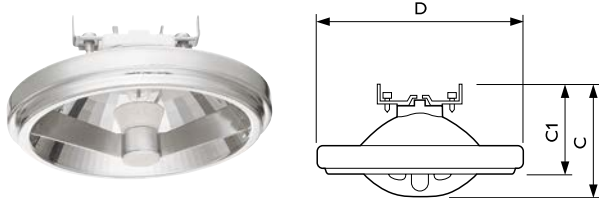
ESSENTIAL PLUS DICHROIC

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Carton Qty |
|-----------------|-------------|----------|---------|-------------------------|------------------------|-----------------|--------------|------------|
| I3111 | 35 | GU5.3 | 12V | 1000 | 3000 | 3000 | 36 | 50 |
| I3112 | 35 | GU5.3 | 12V | 400 | 3000 | 3000 | 60 | 50 |
| I3121 | 35 | GU5.3 | 12V | 1000 | 3000 | 3000 | 36 | 10 |
| I3122 | 35 | GU5.3 | 12V | 400 | 3000 | 3000 | 60 | 10 |
| I3141 | 35 | GU5.3 | 12V | 1000 | 3000 | 3000 | 36 | 20 |
| I3142 | 35 | GU5.3 | 12V | 400 | 3000 | 3000 | 60 | 20 |
| I3161 | 35 | GU5.3 | 12V | 1000 | 3000 | 3000 | 36 | 30 |
| I3162 | 35 | GU5.3 | 12V | 400 | 3000 | 3000 | 60 | 30 |
| I3222 | 20 | GU5.3 | 12V | 550 | 3000 | 3000 | 36 | 50 |
| I5121 | 35 | GU5.3 | 12V | 1500 | 4000 | 3000 | 36 | 20 |
| I5122 | 35 | GU5.3 | 12V | 700 | 4000 | 3000 | 60 | 20 |

Masterline III

Low voltage halogen reflector lamp with double-ended burner and high-purity aluminium reflector. It has a unique infra-red coated burner technology, and revolutionary compact precision burner for maximum performance of the infra-red reflecting coating. The ceramic filament shield reduces glare and improves beam shape. It has a flat profile, very tight beam pattern, and excellent glare control.

Increased lifetime (4,000 hours) ensures low maintenance costs.



| Product ID | Overall Length C max. | Overall Length C1 max. | Diameter D max. |
|-------------|--------------------------|---------------------------|--------------------|
| 30, 45, 60W | 65 | 49 | 111 |

Dimensions in mm

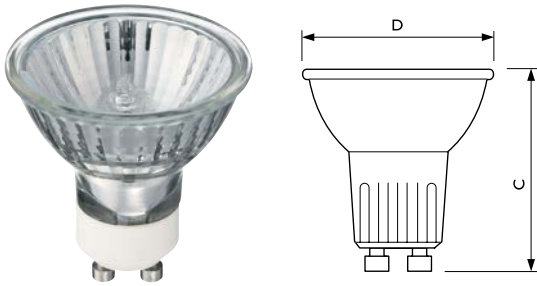
MASTERLINE III

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Carton Qty |
|-----------------|----------------|-------------|---------|-------------------------------|------------------------------|-----------------------|--------------------|---------------|
| MSTIII30WI2V8D | 30 | G53 | 12V | 23000 | 4000 | 3000 | 8 | 6 |
| MSTIII30WI2V24D | 30 | G53 | 12V | 4000 | 4000 | 3000 | 24 | 6 |
| MSTIII45WI2V8D | 45 | G53 | 12V | 33000 | 4000 | 3000 | 8 | 6 |
| MSTIII45WI2V24D | 45 | G53 | 12V | 5300 | 4000 | 3000 | 24 | 6 |
| MSTIII45WI2V45D | 60 | G53 | 12V | 1900 | 4000 | 3000 | 45 | 6 |
| MSTIII60WI2V8D | 60 | G53 | 12V | 48000 | 4000 | 3000 | 8 | 6 |
| MSTIII60WI2V24D | 60 | G53 | 12V | 8500 | 4000 | 3000 | 24 | 6 |
| MSTIII60WI2V45D | 60 | G53 | 12V | 2800 | 4000 | 3000 | 45 | 6 |

Essential Twistline Dichroic

A range of compact quartz halogen reflector lamps that offer a mains voltage look-alike to low voltage dichroic MRI6 lamps. The lamp can be connected directly to 240V mains supply eliminating the need for a transformer.

Featuring an aluminium reflector which directs most of the heat to the front to prevent overheating in the luminaire/ceiling space where ventilation is not adequate. Features a GU10 lamp base. Twistline provides a constant quality of light over lamp life and remains bright and shining.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| GU10 | 51 | 51 |

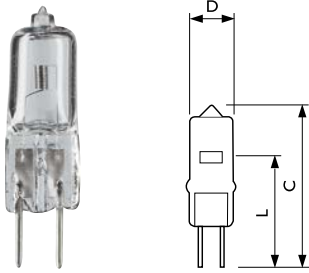
Dimensions in mm

ESSENTIAL TWISTLINE DICHROIC

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Colour | Beam Angle ° | Carton Qty |
|-----------------|----------------|-------------|---------|-------------------------------|------------------------------|-----------------------|--------|--------------------|---------------|
| ESSGU1050W | 50 | GU10 | 240V | 400 | 2000 | 3000 | 40 | 60 | 50 |

Essential Capsule

- Sturdy and compact
- Dimmable with a universal burning position
- For use in fixtures with protected front glass in accordance with IEC
- Low voltage – transformer required



| Product ID | Overall Length C max. | Diameter D max. | Overall Length L nom. |
|------------|--------------------------|--------------------|--------------------------|
| G4 | 32 | 9 | 22 |
| GY6.35 | 44 | 12 | 30 |

Dimensions in mm

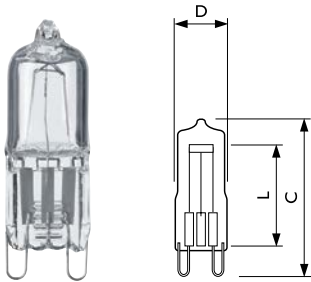
ESSENTIAL CAPSULE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Colour | Carton Qty |
|-----------------|----------------|-------------|---------|-------------------------------|------------------------------|-----------------------|--------|---------------|
| ESSCAP10W12VG4 | 10 | G4 | 12V | 100 | 2000 | 3000 | Clear | 10 |
| ESSCAP20W12VG4 | 20 | G4 | 12V | 250 | 2000 | 3000 | Clear | 10 |
| ESSCAP50W12VGY | 50 | GY6.35 | 12V | 700 | 2000 | 3000 | Clear | 10 |

Essential Capsule MV

Mains-voltage halogen capsule with G.9 base.

- UV block quartz glass
- G9 base for easy insertion and replacement
- Mains voltage so no transformer needed
- Easily dimmable
- General lighting in homes, hotels, bars and restaurants
- Ideal for use in small, lightweight, open luminaires
- Used in luminaires without front glass in accordance with IEC 598



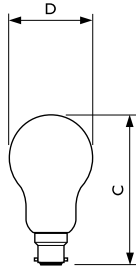
| Product ID | Overall Length C max. | Diameter D max. |
|------------------|--------------------------|--------------------|
| G9 | 44.6 | 12.75 |
| Dimensions in mm | | |

ESSENTIAL CAPSULE MV

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
|-----------------|----------------|-------------|---------|-------------------------------|------------------------------|-----------------------|---------------|
| ESSG940WFRB2 | 40 | G9 | 240V | 460 | 2000 | 2770 | 10 |
| ESSG960WFRB2 | 60 | G9 | 240V | 790 | 2000 | 2800 | 10 |

EcoClassic A55

New generation halogen-technology lamp to replace the standard GLS bulb. Offering the same shape, size, and dimming functions.



| Product ID | C | D |
|------------|------|----|
| A55 | 95.5 | 55 |

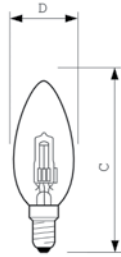
Dimensions in mm

ECOCLASSIC A55

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Colour | Carton Qty |
|-----------------|-------------|----------|---------|-------------------------|------------------------|-----------------|---------|------------|
| ECO28WE27A55CL | 28 | E27 | 240 | 340 | 2000 | 2900 | Clear | 100 |
| ECO28WE27A55FR | 28 | E27 | 240 | 340 | 2000 | 2900 | Frosted | 100 |
| ECO28WB22A55CL | 28 | B22 | 240 | 340 | 2000 | 2900 | Clear | 100 |
| ECO28WB22A55FR | 28 | B22 | 240 | 340 | 2000 | 2900 | Frosted | 100 |
| ECO42WE27A55CL | 42 | E27 | 240 | 630 | 2000 | 2900 | Clear | 100 |
| ECO42WE27A55FR | 42 | E27 | 240 | 630 | 2000 | 2900 | Frosted | 100 |
| ECO42WB22A55CL | 42 | B22 | 240 | 630 | 2000 | 2900 | Clear | 100 |
| ECO42WB22A55FR | 42 | B22 | 240 | 630 | 2000 | 2900 | Frosted | 100 |
| ECO53WE27A55CL | 53 | E27 | 240 | 850 | 2000 | 2900 | Clear | 100 |
| ECO53WE27A55FR | 53 | E27 | 240 | 850 | 2000 | 2900 | Frosted | 100 |
| ECO53WB22A55CL | 53 | B22 | 240 | 850 | 2000 | 2900 | Clear | 100 |
| ECO53WB22A55FR | 53 | B22 | 240 | 850 | 2000 | 2900 | Frosted | 100 |
| ECO70WB22A55CL | 70 | B22 | 240 | 1200 | 2000 | 2900 | Clear | 100 |
| ECO70WB22A55FR | 70 | B22 | 240 | 1200 | 2000 | 2900 | Frosted | 100 |
| ECO70WE27A55CL | 70 | E27 | 240 | 1200 | 2000 | 2900 | Clear | 100 |
| ECO70WE27A55FR | 70 | E27 | 240 | 1200 | 2000 | 2900 | Frosted | 100 |

EcoClassic Candle

New generation halogen-technology lamp to replace the standard GLS candle. Offering the same shape, size, and dimming functions.



| Product ID | C | D |
|------------|------|----|
| Candle | 95.5 | 36 |

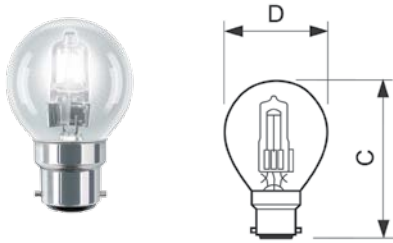
Dimensions in mm

ECOCLASSIC CANDLE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Colour | Carton Qty |
|-----------------|-------------|----------|---------|-------------------------|------------------------|-----------------|---------|------------|
| C35CL28W240VSES | 28 | E14 | 240 | 370 | 2000 | 2800 | Clear | 70 |
| C35CL28W240VSBC | 28 | B15 | 240 | 370 | 2000 | 2800 | Clear | 70 |
| C35FR28W240VSES | 28 | E14 | 240 | 370 | 2000 | 2800 | Frosted | 70 |
| C35FR28W240VSBC | 28 | B15 | 240 | 370 | 2000 | 2800 | Frosted | 70 |
| C35CL28W240VBC | 28 | B22 | 240 | 370 | 2000 | 2800 | Clear | 70 |
| C35FR28W240VBC | 28 | B22 | 240 | 370 | 2000 | 2800 | Frosted | 70 |

EcoClassic Lustre

New generation halogen-technology lamp to replace the standard GLS lustre. Offering the same shape, size, and dimming functions.



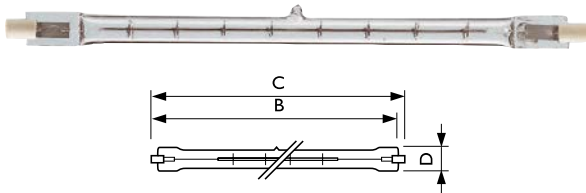
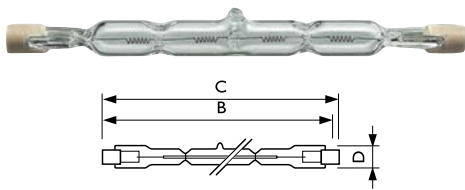
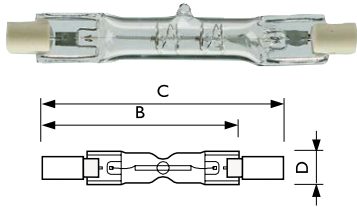
| Product ID | C | D |
|------------|------|----|
| Lustre | 72.5 | 46 |

Dimensions in mm

| ECOCLASSIC LUSTRE | | | | | | | | |
|-------------------|-------------|----------|---------|-------------------------|------------------------|-----------------|---------|------------|
| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Colour | Carton Qty |
| LCL28W240VBC | 28 | B22 | 240 | 370 | 2000 | 2800 | Clear | 100 |
| LFR28W240VBC | 28 | B22 | 240 | 370 | 2000 | 2800 | Frosted | 100 |
| LCL28W240VSBC | 28 | B15 | 240 | 370 | 2000 | 2800 | Clear | 100 |

Plusline Pro – Compact / Small / Large

These high performance, general purpose, linear halogen lamps give perfect colour rendition. These lamps feature two arc prevention fuses built-in for added safety. The burning position is universal on the compact and small types. Used mainly for outdoor floodlighting applications.



| Product ID | Description | Overall Length B nom. | Diameter Length C max. | Overall Length D max. |
|------------|-------------|-----------------------|------------------------|-----------------------|
| 100W | COMPACT | 74.9 | 78.3 | 15 |
| 150W | COMPACT | 74.9 | 78.3 | 15 |

Dimensions in mm

| Product ID | Description | Overall Length B nom. | Diameter Length C max. | Overall Length D max. |
|------------|-------------|-----------------------|------------------------|-----------------------|
| 200W | SMALL | 114.2 | 117.6 | 12 |
| 300W | SMALL | 114.2 | 117.6 | 12 |
| 500W | SMALL | 114.2 | 117.6 | 12 |

Dimensions in mm

| Product ID | Description | Overall Length B nom. | Diameter Length C max. | Overall Length D max. |
|------------|-------------|-----------------------|------------------------|-----------------------|
| 1000W | LARGE | 185.7 | 189.1 | 11 |
| 1500W | LARGE | 250.7 | 254.1 | 11 |

Dimensions in mm

PLUSLINE PRO – COMPACT / SMALL / LARGE

| Commercial Code | Description | Wattage (W) | Luminous Flux Lamp (lm) | Cap Base | Voltage | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
|-----------------|-------------|-------------|-------------------------|----------|---------|------------------------|-----------------|------------|
| DECOMP100WB | COMPACT | 100 | 1550 | R7s | 240V | 2000 | 2900 | 10 |
| DECOMP150WB | COMPACT | 150 | 2550 | R7s | 240V | 2000 | 2900 | 10 |
| DESMALL200WB | SMALL | 200 | 3250 | R7s | 240V | 2000 | 2900 | 10 |
| DESMALL300WB | SMALL | 300 | 5600 | R7s | 240V | 2000 | 2900 | 10 |
| DESMALL500WB | SMALL | 500 | 9900 | R7s | 240V | 2000 | 2900 | 10 |
| DEBIG1000W | LARGE | 1000 | 24200 | R7s | 240V | 2000 | 2900 | 10 |
| DEBIG1500W240V | LARGE | 1500 | 36300 | R7s | 240V | 2000 | 2900 | 10 |

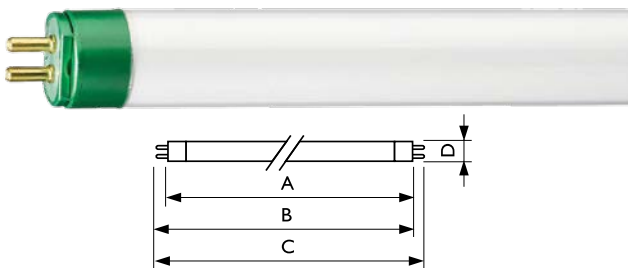


MASTER TL5 High Efficiency ECO

This extremely efficient TL5 lamp (tube diameter 16mm) saves considerable energy in quality T5 fittings. The TL5 HE Eco lamp offers excellent lumen maintenance and colour rendering. Application areas vary from offices and industry to schools and retail environments.

- Benefits:**
- Up to 10% energy saving with compatible Philips ballasts
 - The same quality of light as compared with MASTER TL5 HE lamps
 - All benefits of regular TL5 lamps

- Warnings and Safety:**
- Energy reduction is only achieved with current-controlled gear
 - The lamps operate with power-controlled gear, but in that case give more light output instead of using less energy.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 14W → 13W | 549.0 | 556.1 | 563.2 | 17 |
| 28W → 25W | 1149.0 | 1156.1 | 1163.2 | 17 |
| 35W → 32W | 1449.0 | 1456.1 | 1463.2 | 17 |

Dimensions in mm

MASTER TL5 HIGH EFFICIENCY ECO

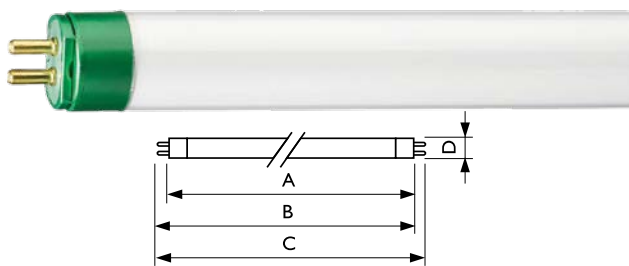
| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (35°, lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------|----------|------------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL513WECO830 | 13 | G5 | 1350 | 25000 | 85 | 3000 | 40 | 40 |
| TL513WECO840 | 13 | G5 | 1350 | 25000 | 85 | 4000 | 40 | 40 |
| TL525WECO830 | 25 | G5 | 2900 | 25000 | 85 | 3000 | 40 | 40 |
| TL525WECO840 | 25 | G5 | 2900 | 25000 | 85 | 4000 | 40 | 40 |
| TL525WECO865 | 25 | G5 | 2700 | 25000 | 85 | 6500 | 40 | 40 |
| TL532WECO830 | 32 | G5 | 3650 | 25000 | 85 | 3000 | 40 | 40 |
| TL532WECO840 | 32 | G5 | 3650 | 25000 | 85 | 4000 | 40 | 40 |

MASTER TL5 High Output ECO

This extremely efficient TL5 lamp (tube diameter 16mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HO Eco lamp offers excellent lumen maintenance and colour rendering. Application areas vary from offices and industry to schools and retail environments.

- Benefits:**
- Up to 10% energy saving with compatible Philips ballasts
 - The same quality of light as compared with MASTER TL5 HO lamps
 - All benefits of regular TL5 lamps

- Warnings and Safety:**
- Energy reduction is only achieved with current-controlled gear
 - The lamps operate with power-controlled gear, but in that case give more light output instead of using less energy.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 49W → 45W | 1449.0 | 1456.1 | 1463.2 | 17 |

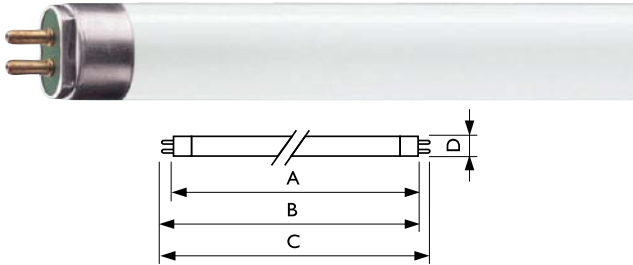
Dimensions in mm

MASTER TL5 HIGH OUTPUT ECO

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (35°, lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------|----------|------------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL545WECO830 | 45 | G5 | 4900 | 25000 | 85 | 3000 | 40 | 40 |
| TL545WECO840 | 45 | G5 | 4900 | 25000 | 85 | 4000 | 40 | 40 |
| TL545WECO865 | 45 | G5 | 4900 | 25000 | 85 | 6500 | 40 | 40 |

MASTER TL5 High Efficiency

Low-pressure mercury discharge lamps with a tubular 16mm envelope. Specifically designed for operation with electronic gear, and suited for dimming. Optimal lighting efficiency at 35°C ambient temperature (compared with TL-D at 25°C). Allows use of more compact luminaires for lighting system minimalisation.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 14W | 549.0 | 556.1 | 563.2 | 17 |
| 21W | 849.0 | 856.1 | 863.2 | 17 |
| 28W | 1149.0 | 1156.1 | 1163.2 | 17 |
| 35W | 1449.0 | 1456.1 | 1463.2 | 17 |

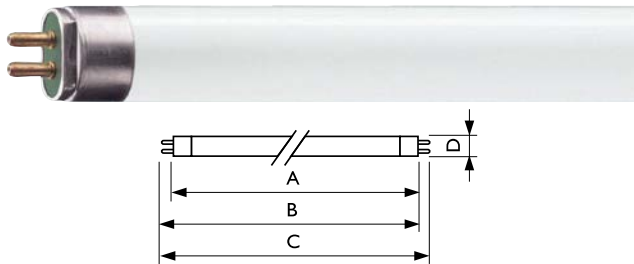
Dimensions in mm

MASTER TL5 HIGH EFFICIENCY

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL514W830HE | 14 | G5 | 1350 | 24000 | 85 | 3000 | 40 | 40 |
| TL514W840HE | 14 | G5 | 1350 | 24000 | 85 | 4000 | 40 | 40 |
| TL514W865HE | 14 | G5 | 1250 | 24000 | 85 | 6500 | 40 | 40 |
| TL521W830HE | 21 | G5 | 2100 | 24000 | 85 | 3000 | 40 | 40 |
| TL521W840HE | 21 | G5 | 2100 | 24000 | 85 | 4000 | 40 | 40 |
| TL521W865HE | 21 | G5 | 1950 | 24000 | 85 | 3000 | 40 | 40 |
| TL528W830HE | 28 | G5 | 2900 | 24000 | 85 | 3000 | 40 | 40 |
| TL528W840HE | 28 | G5 | 2900 | 24000 | 85 | 4000 | 40 | 40 |
| TL528W865HE | 28 | G5 | 2700 | 24000 | 85 | 6500 | 40 | 40 |
| TL535W830HE | 35 | G5 | 3650 | 24000 | 85 | 3000 | 40 | 40 |
| TL535W840HE | 35 | G5 | 3650 | 24000 | 85 | 4000 | 40 | 40 |
| TL535W865HE | 35 | G5 | 3450 | 24000 | 85 | 6500 | 40 | 40 |

MASTER TL5 High Output

Low-pressure mercury discharge lamps with a tubular 16mm envelope. Specifically designed for operation with electronic gear, and suited for dimming. Optimal lighting efficiency at 35°C ambient temperature (compared with TL-D at 25°C). Allows use of more compact luminaires for lighting system minimalisation.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 24W | 549.0 | 556.1 | 563.2 | 17 |
| 39W | 849.0 | 856.1 | 863.2 | 17 |
| 49W | 1449.0 | 1456.1 | 1463.2 | 17 |
| 54W | 1149.0 | 1156.1 | 1163.2 | 17 |
| 80W | 1449.0 | 1456.1 | 1463.2 | 17 |

Dimensions in mm

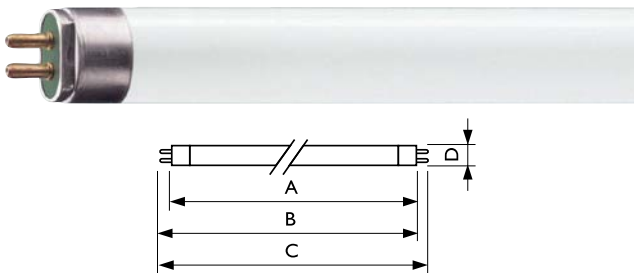
MASTER TL5 HIGH OUTPUT

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL524W830HO | 24 | G5 | 1950 | 24000 | 85 | 3000 | 40 | 40 |
| TL524W840HO | 24 | G5 | 1950 | 24000 | 85 | 4000 | 40 | 40 |
| TL524W865HO | 24 | G5 | 1820 | 24000 | 85 | 6500 | 40 | 40 |
| TL539W830HO | 39 | G5 | 3500 | 24000 | 85 | 3000 | 40 | 40 |
| TL539W840HO | 39 | G5 | 3500 | 24000 | 85 | 4000 | 40 | 40 |
| TL539W865HO | 39 | G5 | 3300 | 24000 | 85 | 6500 | 40 | 40 |
| TL549W840HO | 49 | G5 | 4900 | 24000 | 85 | 4000 | 40 | 40 |
| TL549W865HO | 49 | G5 | 4650 | 24000 | 85 | 6500 | 40 | 40 |
| TL554W830HO | 54 | G5 | 5000 | 24000 | 85 | 3000 | 40 | 40 |
| TL554W840HO | 54 | G5 | 5000 | 24000 | 85 | 4000 | 40 | 40 |
| TL554W865HO | 54 | G5 | 4750 | 24000 | 85 | 6500 | 40 | 40 |
| TL580W830HO | 80 | G5 | 7000 | 24000 | 85 | 3000 | 40 | 40 |
| TL580W840HO | 80 | G5 | 7000 | 24000 | 85 | 4000 | 40 | 40 |

MASTER TL5 HO Xtra

Low-pressure high-output mercury discharge lamps with a tubular 16mm envelope.

- Benefits:**
- Longer lifetime and fewer early failures mean lower maintenance costs and facilitate change from spot to group replacement
 - Allow system miniaturisation with maximum luminaire design freedom
 - Optimised for installations which need high luminous flux
 - Excellent lumen maintenance
 - Good colour rendering
- Features:**
- Significant reduction of early failures through advanced long life technology
 - Extra long lifetime and high reliability
 - Highly efficient 3-band fluorescent coating in combination with precoating
 - Maximum lumen output reached at approx. 35°C in free-burning position
 - Can be ignited from -15° to + 50°C
 - Low mercury dose
- Application:**
- Where maintenance costs are high, e.g. high ceilings or other hard to-reach locations
 - Department stores, supermarkets, warehouses, production halls and public areas like car parks and railway stations
- System:**
- Can be used with TL5 electronic gear



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 49W | 1449.0 | 1456.1 | 1463.2 | 17 |
| 54W | 1149.0 | 1156.1 | 1163.2 | 17 |
| 80W | 1449.0 | 1456.1 | 1463.2 | 17 |

Dimensions in mm

MASTER TL5 HO XTRA

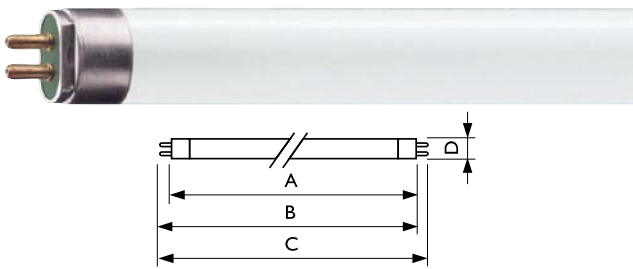
| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL549W840 XTRA | 49 | G5 | 4900 | 45000 | 85 | 4000 | 20 | 20 |
| TL549W865 XTRA | 49 | G5 | 4900 | 45000 | 85 | 6500 | 20 | 20 |
| TL554W840 XTRA | 54 | G5 | 5000 | 45000 | 85 | 4000 | 20 | 20 |
| TL554W865 XTRA | 54 | G5 | 5000 | 45000 | 85 | 6500 | 20 | 20 |
| TL580W830 XTRA | 80 | G5 | 7000 | 45000 | 85 | 3000 | 20 | 20 |
| TL580W840 XTRA | 80 | G5 | 7000 | 45000 | 85 | 4000 | 20 | 20 |

MASTER TL5 HO TOP

This TL5 HO TOP lamp (Temperature Optimised Performance) offers a constant light level, independent of temperature fluctuations, making it an excellent solution for warm applications. The TL5 HO TOP can be operated on equivalent systems as MASTER TL5 HO. Excellent solution for warm applications, such as non air conditioned warehouses, wall washers, etc.

- Benefits:**
- Allows system miniaturisation with maximum luminaire design freedom
 - Lamp lengths enable easy fitting into ceiling module systems
 - Retrofit to current TL5 HO non-amalgam lamps
 - Optimised for installations which need high luminous flux, especially in hot (above 40°C) conditions
 - Constant lumen level over a wide temperature range (20-75°C) with excellent lumen maintenance
 - Good colour rendering

- Features:**
- Lumen output higher than 90% of maximum value at ambient lamp temperatures from 20 to 75°C due to amalgam-controlled operation
 - Allows dimming-down to 30% light output
 - Hot restrike and good run-up behaviour compared to high intensity discharge lamps due to auxiliary amalgams at both lamp ends
 - Can be ignited at temperatures from -15 to +75°C



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 54W | 1149.0 | 1156.1 | 1163.2 | 17 |
| 80W | 1449.0 | 1456.1 | 1463.2 | 17 |

Dimensions in mm

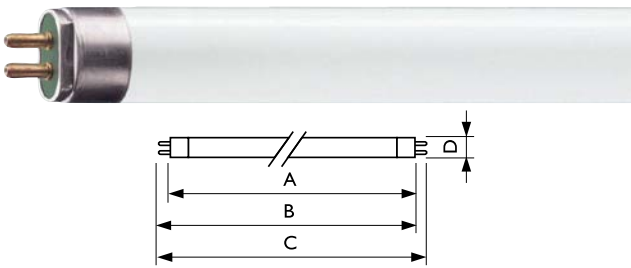
MASTER TL5 HO TOP

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL554W840TOP | 54 | G5 | 5000 | 24000 | 85 | 4000 | 20 | 20 |
| TL580W840TOP | 80 | G5 | 7000 | 24000 | 85 | 4000 | 20 | 20 |

MASTER TL5 HO 90 Deluxe

Low-pressure mercury discharge lamps with high colour rendering.

- Benefits:**
- Allows system miniaturisation and maximum luminaire design freedom, with lamp lengths defined for easy fitting into ceiling module systems
 - Virtually constant lumen level with good lumen maintenance
 - Excellent colour rendering
- Features:**
- Highly efficient multi-band fluorescent coating in combination with precoating and high lamp load
 - Specifically designed for operation with electronic gear and well suited for dimming
 - Maximum light output reached at approx. 35°C in free-burning position if an electronic ballast without additional electrode heating is used
 - Can be ignited from -15 to +50°C
- Application:**
- Where a high colour recognition is needed: first aid and treatment rooms in hospitals, printing rooms, jewellery manufacturing, dentists, hairdressing, museums and shops



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 24W | 549.0 | 556.1 | 563.2 | 17 |
| 54W | 1149.0 | 1156.1 | 1163.2 | 17 |

Dimensions in mm

MASTER TL5 HO 90 DELUXE

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL524W940 | 24 | G5 | 1600 | 24000 | 91 | 4000 | 20 | 20 |
| TL524W950 | 24 | G5 | 1600 | 24000 | 92 | 5000 | 20 | 20 |
| TL554W940 | 54 | G5 | 4300 | 24000 | 91 | 4000 | 20 | 20 |
| TL554W950 | 54 | G5 | 4300 | 24000 | 92 | 5000 | 20 | 20 |

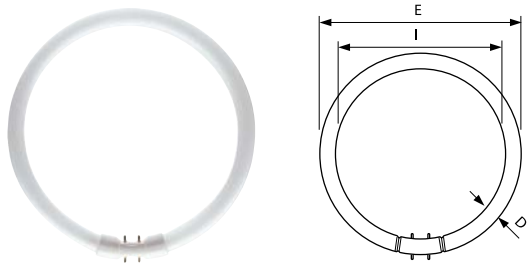
MASTER TL5 Circular

16mm tube diameter circular fluorescent lamps with a choice of various diameters.

- Benefits:**
- Slim 16mm tube allows creation of extremely flat luminaires
 - Allows appealing circular designs
 - High lamp efficacy
 - Good colour rendering
 - Temperature independent light output
 - Higher average system efficiency

- Features:**
- Perfect circular shape
 - Highly efficient 3-band fluorescent coating
 - Specifically designed for operation with electronic gear
 - Can be ignited from -15 to +50°C
 - Amalgam technology

- Application:**
- Brings the benefits of TL5 lighting to an even wider range of attractive applications
 - Suitable for a wide range of professional and semi-professional applications
 - Ideal for use in shops, offices and public areas with non-traditional layouts
 - Amalgam lamps have limited suitability for dimming applications.



| Product ID | D max. | E max. | I max. |
|------------|--------|--------|--------|
| 22W | 18 | 230 | 197 |
| 40W/55W | 18 | 305 | 272 |
| 60W | 18 | 379 | 346 |

Dimensions in mm

MASTER TL5 CIRCULAR

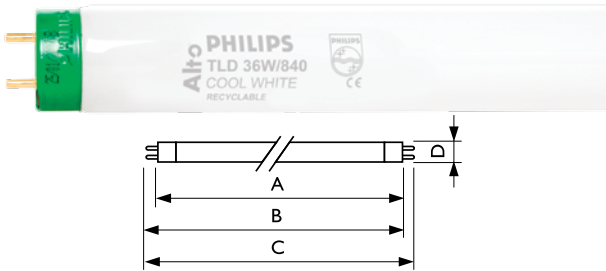
| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL5C22W830 | 22 | 2GX13 | 1800 | 12000 | 85 | 3000 | 10 | 10 |
| TL5C22W840 | 22 | 2GX13 | 1800 | 12000 | 85 | 4000 | 10 | 10 |
| TL5C40W830 | 40 | 2GX13 | 3300 | 12000 | 85 | 3000 | 10 | 10 |
| TL5C40W840 | 40 | 2GX13 | 3300 | 12000 | 85 | 4000 | 10 | 10 |
| TL5C55W830 | 55 | 2GX13 | 4200 | 12000 | 85 | 3000 | 10 | 10 |
| TL5C55W840 | 55 | 2GX13 | 4200 | 12000 | 85 | 4000 | 10 | 10 |
| TL5C60W840 | 60 | 2GX13 | 5000 | 12000 | 85 | 4000 | 10 | 10 |

MASTER TL-D ALTO

The difference is green. The ALTO lamp, a green flagship product, features technology that employs a unique capsule injection dosing system that delivers significantly less mercury into each tube; now only two milligrams.

The lamps Next Generation triphosphor technologies ensures high light output, high lumen maintenance, and good colour rendering.

Features a distinct green end cap for easy identification for relamping. So make the switch to green!



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 18W | 549.0 | 556.1 | 563.2 | 28 |
| 36W | 1149.0 | 1156.1 | 1213.6 | 28 |
| 58W | 1500.0 | 1504.7 | 1514.2 | 28 |

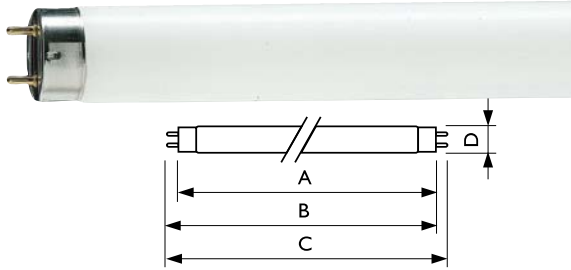
Dimensions in mm

MASTER TL-D ALTO

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime EL (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|-------------|----------|---------|-------------------------|---------------------------|-----------------------------|-----------------|--------------------|------------|
| TLD18W830ALTO | 18 | G13 | 59 | 1350 | 20000 | 83 | 3000 | 25 | 25 |
| TLD18W840ALTO | 18 | G13 | 59 | 1350 | 20000 | 82 | 4000 | 25 | 25 |
| TLD18W850ALTO | 18 | G13 | 59 | 1310 | 20000 | 80 | 5000 | 25 | 25 |
| TLD18W865ALTO | 18 | G13 | 59 | 1275 | 20000 | 80 | 6500 | 25 | 25 |
| TLD36W830ALTO | 36 | G13 | 103 | 3250 | 20000 | 83 | 3000 | 25 | 25 |
| TLD36W840ALTO | 36 | G13 | 103 | 3250 | 20000 | 82 | 4000 | 25 | 25 |
| TLD36W850ALTO | 36 | G13 | 103 | 3170 | 20000 | 80 | 5000 | 25 | 25 |
| TLD36W865ALTO | 36 | G13 | 103 | 3070 | 20000 | 80 | 6500 | 25 | 25 |
| TLD58W830ALTO | 58 | G13 | 111 | 5150 | 20000 | 83 | 3000 | 25 | 25 |
| TLD58W840ALTO | 58 | G13 | 111 | 5200 | 20000 | 82 | 4000 | 25 | 25 |
| TLD58W850ALTO | 58 | G13 | 111 | 4950 | 20000 | 80 | 5000 | 25 | 25 |
| TLD58W865ALTO | 58 | G13 | 111 | 4800 | 20000 | 80 | 6500 | 25 | 25 |

MASTER TL-D Super 80

Next Generation triphosphor tubes with alternate wattages/lengths.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 30W | 1199.4 | 1206.5 | 1213.6 | 28 |

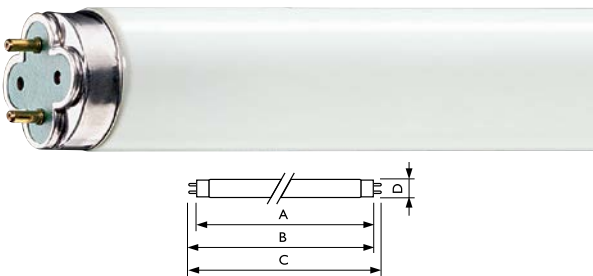
Dimensions in mm

MASTER TL-D SUPER 80

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime EM (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|---------|-------------------------|---------------------------|-----------------------------|-----------------|--------------------|------------|
| TLD30W840 | 30 | G13 | 98 | 2400 | 15,000 | 85 | 4000 | 25 | 25 |

MASTER TL-D Xtreme

Next Generation triphosphor tube with long service life and fewer early failures. Xtreme (extremely long life) are suited for applications where maintenance costs are high; such as areas with high ceilings or difficult to reach areas (department stores, supermarkets, warehouses, halls, airports etc). The Xtreme lamps are also suited to areas that require minimum disruption due to relamping; such as production facilities and transport tunnels. Philips recommends Xtreme lamps in applications where users are looking for longer periods between group replacement of lamps. Features a distinct X-cap to identify as a long-life lamp.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 18W | 589.8 | 596.9 | 604 | 28 |
| 36W | 1199.4 | 1206.5 | 1213.6 | 28 |
| 58W | 1500.0 | 1507.1 | 1514.2 | 28 |

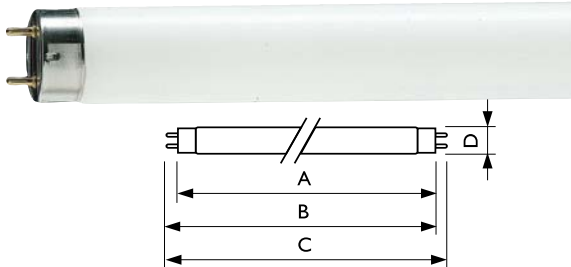
Dimensions in mm

MASTER TL-D XTREME

| Shortcode | Wattage (W) | Luminous Flux Lamp (lm) | Average Lifetime (hrs) EM | Average Lifetime (hrs) EL | Average Lifetime 24H Operation EL (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|-------------|-------------------------|---------------------------|---------------------------|---|-----------------------------|-----------------|--------------------|------------|
| TLD18W840XTRE | 18 | 1330 | 47000 | 79000 | 92000 | 82 | 4000 | 25 | 25 |
| TLD36W840XTRE | 36 | 3250 | 47000 | 79000 | 92000 | 82 | 4000 | 25 | 25 |

MASTER TL-D 90 Deluxe

TL-D 90 Deluxe tubes with a Colour Rendering Index (CRI) >90 are a direct retrofit for standard or TL-D Super 80 where there is a requirement for very good colour rendering. Achieve deeper, richer colours in situations including florists, hairdressers, fashion/departments stores, museums etc.



| Product ID max. | A max. | B max. | C max. | D max. | E max. |
|-----------------|--------|--------|--------|--------|--------|
| 18W | 589.8 | 594.5 | 96.9 | 604 | 28 |
| 36W | 1199.4 | 1204.7 | 1206.5 | 1213.6 | 28 |
| 58W | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 28 |

Dimensions in mm

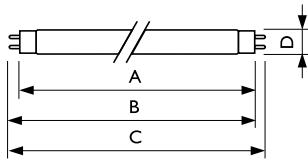
MASTER TL-D 90 DELUXE

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|---------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TLD18W865 | 18 | G13 | 59 | 1150 | 15000 | 93 | 6500 | 10 | 10 |
| TLD18W950 | 18 | G13 | 59 | 1150 | 15000 | 93 | 5000 | 10 | 10 |
| TLD36W940 | 36 | G13 | 103 | 2800 | 15000 | 91 | 3800 | 10 | 10 |
| TLD36W950 | 36 | G13 | 103 | 2800 | 15000 | 93 | 5000 | 10 | 10 |
| TLD58W930 | 58 | G13 | 111 | 4350 | 15000 | 92 | 3000 | 10 | 10 |
| TLD58W950 | 58 | G13 | 111 | 4550 | 15000 | 93 | 5000 | 10 | 10 |

MASTER TL-D Secura

Next Generation triphosphor tube with protective coating. Outer sleeve keeps glass and other lamp components together in case of accidental lamp breakage. Suited for use in areas with open food and beverage areas, production facilities, sports facilities, animal enclosures etc.

Features a distinct blue-ring to identify as protected tubes. MASTER TL-D Secura is HACCP Certified.



| Product ID | A max. | B max. | C max. | D max. | E max. |
|------------|--------|--------|--------|--------|--------|
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 28 |

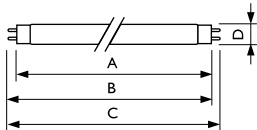
Dimensions in mm

MASTER TL-D SECURA

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|-------------|----------|---------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TLD36W840SECURA | 36 | G13 | 103 | 3200 | 15000 | 85 | 4000 | 25 | 25 |

MASTER TL-D Food Pro (Butcher)

The colour 79 butcher tube. Next Generation triphosphor tube designed specifically for the presentation of fresh meat and poultry. Lamps emphasis the deep red colours such as those of meat, without the lamp having a red appearance.



| Product ID | A max. | B max. | C max. | D max. | E max. |
|------------|--------|--------|--------|--------|--------|
| 18W | 589.8 | 594.5 | 596.9 | 604 | 28 |
| 30W | 894.6 | 899.3 | 901.7 | 908.8 | 28 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 28 |

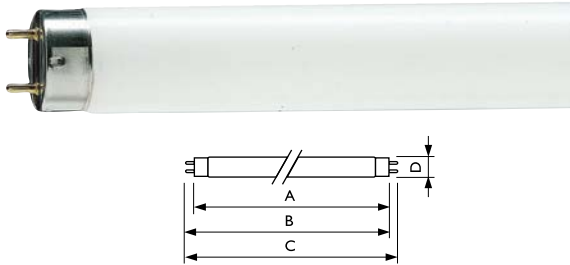
Dimensions in mm

MASTER TL-D FOOD PRO (BUTCHER)

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TLD18W79 | 18 | G13 | 740 | 15000 | 74 | 3800 | 25 | 25 |
| TLD30W79 | 30 | G13 | 1300 | 15000 | 74 | 3800 | 25 | 25 |
| TLD36W79 | 36 | G13 | 1750 | 15000 | 74 | 3800 | 25 | 25 |

TL-D Standard Colours

Low-wattage standard colour tubes with shorter length and moderate colour rendering.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 10W | 331.5 | 338.6 | 345.7 | 28 |
| 15W | 437.4 | 444.5 | 451.6 | 28 |

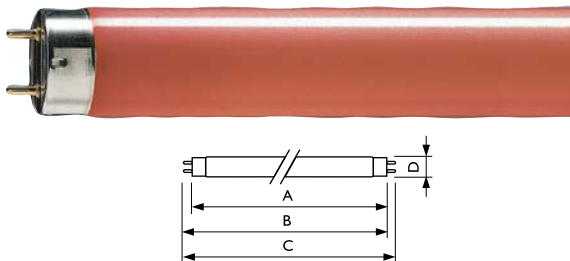
Dimensions in mm

TL-D STANDARD COLOURS

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|-------------------------|------------------------|-----------------------------|--------------------|------------|
| TLD10W33 | 10 | G13 | 520 | 10000 | 60 | 25 | 25 |
| TLD15W33 | 15 | G13 | 960 | 10000 | 63 | 9 | 9 |

TL-D Coloured

Philips TL-D COLOUR lamps is a complete portfolio of strong and brilliant colours ranging from 18W-58W. That means more freedom to create great ambiance.



| Product ID | A max. | B max. | C max. | D max. | E max. |
|------------|--------|--------|--------|--------|--------|
| 18W | 589.8 | 594.5 | 596.9 | 604 | 28 |
| 36W | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 28 |

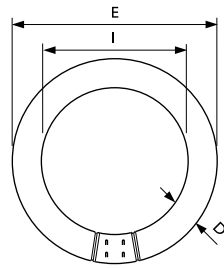
Dimensions in mm

TLD COLOURED

| Shortcode | Colour | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Min Order Quantity | Carton Qty |
|-----------|--------|-------------|----------|-------------------------|--------------------|------------|
| TLD18W18 | Blue | 18 | G13 | 400 | 25 | 25 |
| TLD18W17 | Green | 18 | G13 | 1300 | 25 | 25 |
| TLD18W16 | Yellow | 18 | G13 | 660 | 25 | 25 |
| TLD36W18 | Blue | 36 | G13 | 970 | 25 | 25 |
| TLD36W16 | Yellow | 36 | G13 | 1580 | 25 | 25 |

TL-E Circular Super 80

A range of simple, yet decorative shaped circular fluorescent lamps. To provide non-directional light in decorative or functional fittings.



| Product ID | D max. | E max. | I max. |
|------------|--------|--------|--------|
| 22W | 30.9 | 215.9 | 157.5 |
| 32W | 30.9 | 304.8 | 246.1 |
| 40W | 30.9 | 406.4 | 347.7 |

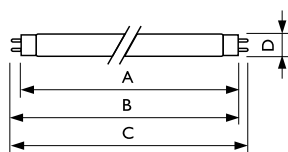
Dimensions in mm

TL-E CIRCULAR SUPER 80

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TLE22W840 | 22 | G10q | 1285 | 9000 | 85 | 4000 | 20 | 20 |
| TLE22W865 | 22 | G10q | 1250 | 9000 | 85 | 6500 | 20 | 20 |
| TLE32W840 | 32 | G10q | 2130 | 9000 | 85 | 4000 | 4 | 4 |
| TLE32W865 | 32 | G10q | 2130 | 9000 | 85 | 6500 | 20 | 20 |
| TLE40W865 | 40 | G10q | 3100 | 9000 | 85 | 6500 | 20 | 20 |

TL Miniature

Miniature tubes with 16mm diameter. Suited to orientation or compact lighting applications, and where space is limited.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 6WTL | 212.1 | 219.2 | 226.3 | 16 |
| 8WTL | 288.3 | 295.4 | 302.5 | 16 |

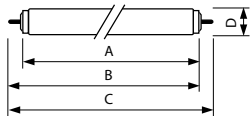
Dimensions in mm

TL MINIATURE

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| TL6W33 | 6 | G5 | 280 | 10000 | 60 | 4100 | 25 | 250 |
| TL8W33 | 8 | G5 | 410 | 10000 | 60 | 4100 | 25 | 250 |

TL-X XL Instant Start

Instant start safety lamps specifically designed for use in potentially explosive atmospheres. Internal ignition switch and nickel single pin caps. Must be used with explosion-proof ballasts in flameproof or increased safety fittings.



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 20W | 574 | 592.5 | 611 | 40.5 |
| 40W | 1183.5 | 1202 | 1220.5 | 40.5 |

Dimensions in mm

TL-X XL INSTANT START

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| TLXXL20W33 | 20 | FA6 | 1100 | 26000 | 4100 | 25 | 25 |
| TLXXL40W33 | 40 | FA6 | 2350 | 26000 | 4100 | 25 | 25 |

Starter Switches

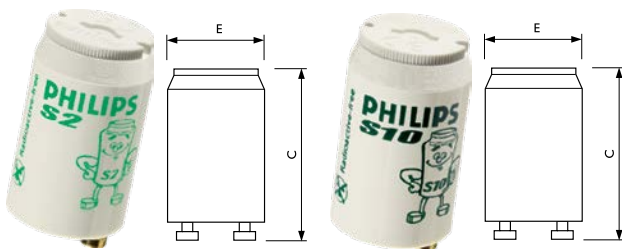
Premium quality 2-pin flame-retardant polycarbonate ignitors for starting of fluorescent lamps on conventional electromagnetic circuits.

Controlled preheating of the lamp filaments and sufficient pulse voltage for longer lamp life.

Features a radio-interference suppression capacitor.

S2 starters for ignition in single-circuit operation 110-130V and series operation 220-240V.

S10 starters for ignition in series operation 220-240V.



| Product ID | Overall Length C max. | Diameter E max. |
|------------|-----------------------|-----------------|
| S2 | 40.3 | 21.5 |
| S10 | 40.3 | 21.5 |

Dimensions in mm

STARTER SWITCHES

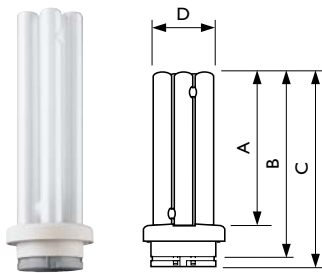
| Shortcode | Wattage (W) | Min Order Quantity | Carton Qty |
|-----------|-------------|--------------------|------------|
| S2 | 4-22 | 25 | 300 |
| S10 | 4-65 | 25 | 300 |

MASTER PL-R Eco

MASTER PL-R-Eco is an extremely efficient compact fluorescent lamp for downlight applications. It consists of six parallel tubes with a new innovative 'Twist and Lock' lamp base, designed for use with electronic gear.

Benefits:

- Optimal light and efficiency performance for short or long operation per switch in indoor downlighters
- Up to 50% less energy consumption in application versus 18 and 26 W PL-C/T on EM gears for comparable lighting levels
- Up to 25% less energy consumption in application versus 18 and 26 W PL-C/T on HF drivers for comparable lighting levels
- Long life, sustainable light output and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Easy lamp (re-)placement and stable fixation due to new twist and lock lampbase/holder



| Product ID | A max. | B max. | C max. | D max. |
|------------|--------|--------|--------|--------|
| 14W | 99.7 | 120.0 | 126.6 | 41.0 |
| 17W | 121.7 | 142.0 | 148.6 | 41.0 |

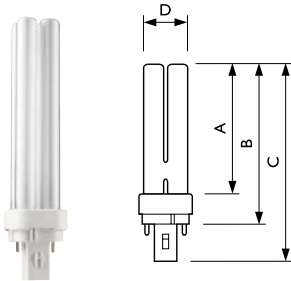
Dimensions in mm

MASTER PL-R ECO

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| PLR14W830 | 14 | GRI4q-I | 1200 | 24000 | 82 | 3000 | 10 | 10 |
| PLR14W840 | 14 | GRI4q-I | 1200 | 24000 | 82 | 4000 | 10 | 10 |
| PLR17W830 | 17 | GRI4q-I | 1500 | 24000 | 82 | 3000 | 10 | 10 |
| PLR17W840 | 17 | GRI4q-I | 1500 | 24000 | 82 | 4000 | 10 | 10 |

PL-C 2-PIN

PL-C lamps are compact, single ended fluorescent lamps. All require external control gear which normally comes complete with the luminaire. 2-pin (non-dimming) option.



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Diameter D max. |
|------------|-------------------------------|-------------------------|-----------------------|-----------------|
| 10W | 75.7 | 95 | 109.9 | 27.1 |
| 13W | 97.5 | 117 | 131.9 | 27.1 |
| 18W | 109.5 | 129 | 143.9 | 27.1 |
| 26W | 130.7 | 150 | 164.9 | 27.1 |

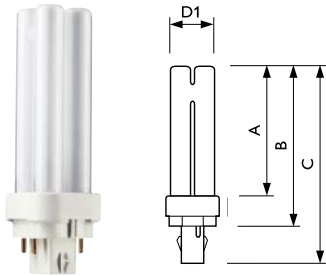
Dimensions in mm

PL-C 2-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| PLC10W8402P | 10 | G24d-1 | 600 | 10000 | 4000 | 10 | 50 |
| PLC13W8272P | 13 | G24d-1 | 900 | 10000 | 2700 | 10 | 50 |
| PLC13W8302P | 13 | G24d-1 | 900 | 10000 | 3000 | 10 | 50 |
| PLC13W8402P | 13 | G24d-1 | 900 | 10000 | 4000 | 10 | 50 |
| PLC18W8272P | 18 | G24d-2 | 1200 | 10000 | 2700 | 10 | 50 |
| PLC18W8302P | 18 | G24d-2 | 1200 | 10000 | 3000 | 10 | 50 |
| PLC18W8402P | 18 | G24d-2 | 1200 | 10000 | 4000 | 10 | 50 |
| PLC26W8302P | 26 | G24d-3 | 1800 | 10000 | 3000 | 10 | 50 |
| PLC26W8402P | 26 | G24d-3 | 1800 | 10000 | 4000 | 10 | 50 |

PL-C 4-PIN

PL-C lamps are compact, single ended fluorescent lamps. All require external control gear which normally comes complete with the luminaire. 4-pin (dimming) option.



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Diameter DI max. |
|------------|-------------------------------|-------------------------|-----------------------|------------------|
| 13W | 97.5 | 117 | 131.9 | 27.1 |
| 18W | 109.5 | 129 | 143.9 | 27.1 |
| 26W | 130.7 | 150 | 164.9 | 27.1 |

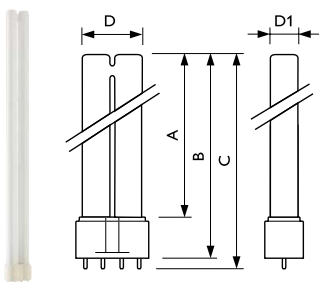
Dimensions in mm

PL-C 4-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| PLC13W8304P | 13 | G24q-1 | 900 | 10000 | 83 | 3000 | 10 | 50 |
| PLC13W8404P | 13 | G24q-1 | 900 | 10000 | 82 | 4000 | 10 | 50 |
| PLC18W8304P | 18 | G24q-2 | 1200 | 10000 | 83 | 3000 | 10 | 50 |
| PLC18W8404P | 18 | G24q-2 | 1200 | 10000 | 82 | 4000 | 10 | 50 |
| PLC26W8274P | 26 | G24q-3 | 1800 | 10000 | 83 | 2700 | 10 | 50 |
| PLC26W8304P | 26 | G24q-3 | 1800 | 10000 | 83 | 3000 | 10 | 50 |
| PLC26W8404P | 26 | G24q-3 | 1800 | 10000 | 82 | 4000 | 10 | 50 |

MASTER PL-L 4-PIN

PL-L lamps have two parallel fluorescent tubes and a 4-pin base. Dimming possible on electronic gear.



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Diameter D max. | Diameter DI max. |
|------------|-------------------------------|-------------------------|-----------------------|-----------------|------------------|
| 18W | 194.2 | 220 | 226.0 | 37.7 | 18 |
| 36W | 384.2 | 410 | 416.6 | 37.7 | 18 |
| 40W | 509.2 | 535 | 541.6 | 37.7 | 18 |
| 55W | 509.2 | 535 | 541.6 | 37.7 | 18 |

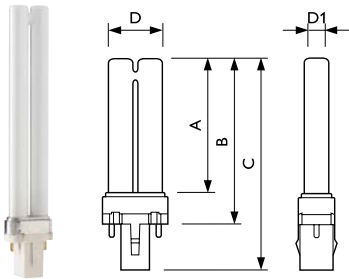
Dimensions in mm

MASTER PL-L 4-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| PLL18W8304P | 18 | 2G11 | 1200 | 15000 | 82 | 3000 | 25 | 25 |
| PLL18W8404P | 18 | 2G11 | 1200 | 15000 | 82 | 4000 | 25 | 25 |
| PLL36W8404P | 36 | 2G11 | 2900 | 15000 | 82 | 4000 | 25 | 25 |
| PLL55W8304P | 55 | 2G11 | 4800 | 20000 | 82 | 3000 | 25 | 25 |
| PLL55W8404P | 55 | 2G11 | 4800 | 15000 | 82 | 4000 | 25 | 25 |

PL-S 2-PIN

PL-S lamps are compact, single ended fluorescent lamps, with two parallel tubes. They have either a 2-pin or 4-pin base incorporating a special instant starter and capacitor.



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Diameter D max. | Diameter DI max. |
|------------|-------------------------------|-------------------------|-----------------------|-----------------|------------------|
| 7W 2P | 97 | 113 | 135.0 | 27.1 | 10 |
| 9W 2P | 129 | 145 | 167.0 | 27.1 | 10 |
| 11W 2P | 198 | 214 | 235.8 | 27.1 | 10 |

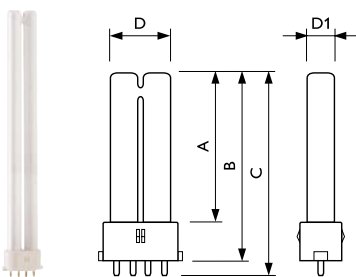
Dimensions in mm

PL-S 2-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| PLS7W8272P | 7 | G23 | 400 | 8000 | 2700 | 25 | 25 |
| PLS7W8402P | 7 | G23 | 400 | 8000 | 4000 | 25 | 25 |
| PLS9W8272P | 9 | G23 | 600 | 8000 | 2700 | 25 | 25 |
| PLS9W8402P | 9 | G23 | 600 | 8000 | 4000 | 25 | 25 |
| PLS11W8272P | 11 | G23 | 900 | 8000 | 2700 | 25 | 25 |
| PLS11W8402P | 11 | G23 | 900 | 8000 | 4000 | 25 | 25 |

PL-S 4-PIN

PL-S lamps are compact, single ended fluorescent lamps, with two parallel tubes. They have either a 2-pin or 4-pin base incorporating a special instant starter and capacitor.



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Diameter D max. | Diameter DI max. |
|------------|-------------------------------|-------------------------|-----------------------|-----------------|------------------|
| 11W 4P | 196 | 214 | 219.9 | 27.1 | 10 |

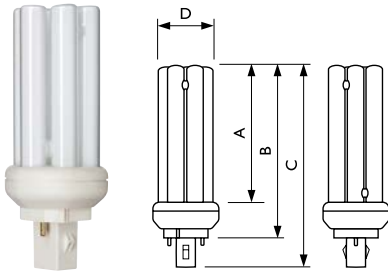
Dimensions in mm

PL-S 4-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| PLS11W8404P | 11 | 2G7 | 900 | 8000 | 4000 | 25 | 50 |

PL-T 2-PIN

PL-T lamps are compact, single ended fluorescent lamps. All require external control gear which normally comes complete with the luminaire.



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Width D max. |
|------------|----------------------------------|----------------------------|--------------------------|-----------------|
| 26W | 86.7 | 111.0 | 126.7 | 41.0 |

Dimensions in mm

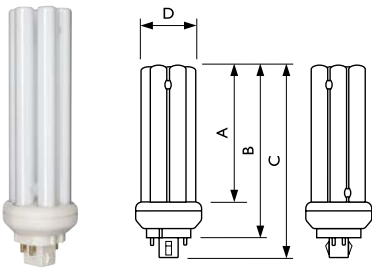
PL-T 2-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| PLT26W8302P | 26 | Gx24d-3 | 1800 | 10000 | 3000 | 10 | 50 |
| PLT26W8402P | 26 | Gx24d-3 | 1800 | 10000 | 4000 | 10 | 50 |

PL-T TOP 4-PIN

PL-T TOP (Temperature Optimised Performance) energy saving compact fluorescent lamp. Compact long-arc low-pressure mercury discharge lamp envelope consists of 6 parallel narrow fluorescent tubes. Amalgam controlled operation.

- Benefits:**
- Optimal lighting performance for long periods of continuous operation
 - High temperature independency at higher application temperatures due to Amalgam technology
 - Long life and sustainable light output



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Width D max. |
|------------|-------------------------------|-------------------------|-----------------------|--------------|
| 18W | 71.7 | 96.0 | 111.7 | 41.0 |
| 26W | 86.7 | 111.0 | 126.7 | 41.0 |
| 32W | 98.7 | 123.0 | 138.7 | 41.0 |
| 42W | 120.7 | 145.0 | 160.7 | 41.0 |
| 57W | 157.7 | 182.0 | 197.7 | 41.0 |

Dimensions in mm

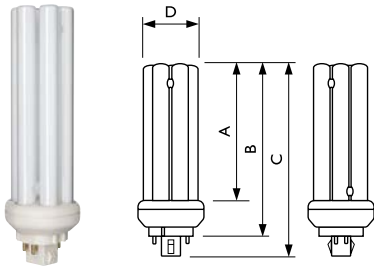
PL-T TOP 4-PIN

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| PLTT18W8304P | 18 | Gx24q-2 | 1200 | 13000 | 82 | 3000 | 10 | 50 |
| PLTT18W8404P | 18 | Gx24q-2 | 1200 | 13000 | 82 | 4000 | 10 | 50 |
| PLTT26W8304P | 26 | Gx24q-3 | 1800 | 13000 | 82 | 3000 | 10 | 50 |
| PLTT26W8404P | 26 | Gx24q-3 | 1800 | 13000 | 82 | 4000 | 10 | 50 |
| PLTT32W8304P | 32 | Gx24q-3 | 2400 | 13000 | 82 | 3000 | 10 | 50 |
| PLTT32W8404P | 32 | Gx24q-3 | 2400 | 13000 | 82 | 4000 | 10 | 50 |
| PLTT42W8304P | 42 | Gx24q-4 | 3200 | 13000 | 82 | 3000 | 10 | 50 |
| PLTT42W8404P | 42 | Gx24q-4 | 3200 | 13000 | 82 | 4000 | 10 | 50 |
| PLTT57W8404P | 57 | Gx24q-5 | 4300 | 13000 | 82 | 4000 | 10 | 50 |

MASTER PL-T Xtra

Energy saving compact fluorescent lamp. Compact long-arc low-pressure mercury discharge lamp envelope consists of 6 parallel narrow fluorescent tubes.

- Benefits:**
- Extra long life
 - Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
 - Optimal light performance for long operation per switch on



| Product ID | Base Face to Base Face A max. | Insertion Length B max. | Overall Length C max. | Width D max. |
|------------|-------------------------------|-------------------------|-----------------------|--------------|
| 42W | 120.7 | 145.0 | 160.7 | 41.0 |
| 57W | 157.7 | 182.0 | 197.7 | 41.0 |

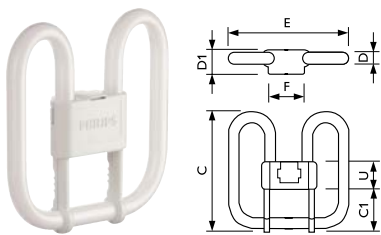
Dimensions in mm

MASTER PL-T XTRA

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|-------------|----------|-------------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| PLTXTRA42W8404P | 42 | GX24q-4 | 3050 | 33000 | 82 | 4000 | 50 | 50 |
| PLTXTRA57W8404P | 57 | GX24q-5 | 4300 | 33000 | 82 | 4000 | 50 | 50 |

PL-Q 2-PIN & 4-PIN Quadrant

PL-Q lamps are compact fluorescent lamps consisting of three double-bent parallel fluorescent tubes.



| Product ID | Overall Length C max. | Diameter D max. | Diameter DI max. | Diameter E max. | Width F max. |
|------------|-----------------------|-----------------|------------------|-----------------|--------------|
| 16W | 141.0 | 15.0 | 27.5 | 138.0 | 41.0 |
| 28W | 207.0 | 24.0 | 33.0 | 205.0 | 41.0 |

Dimensions in mm

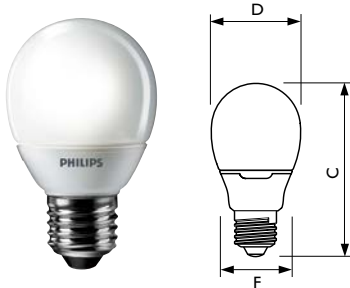
PL-Q 2-PIN & 4-PIN QUADRANT

| Shortcode | Wattage (W) | Cap Base | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| PLQ16W8272P | 16 | GR8 | 1050 | 6000 | 2700 | 10 | 10 |
| PLQ28W8274P | 28 | GR10q | 2050 | 6000 | 2700 | 10 | 10 |
| PLQ28W8404P | 28 | GR10q | 2050 | 6000 | 4000 | 10 | 10 |



Ambiance Lustre

Suitable for a wide variety of decorative lighting and situations, creating a very pleasant and relaxed atmosphere with a high degree of visual comfort.



| Product ID | Overall Length C max. | Diameter D max. | Width F max. |
|------------|--------------------------|--------------------|-----------------|
| 8W | 97 | 56.5 | 48.5 |

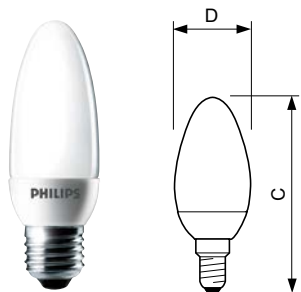
Dimensions in mm

AMBIANCE LUSTRE

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
|---------------|----------------|-------------|----------|----------------------------|---------------------------|--------------------|---------------|
| LST8WWW SBC | 8 | B15 | 220-240V | 370 | 6000 | 2700 | 6 |
| LST8WWW B C | 8 | B22 | 220-240V | 370 | 6000 | 2700 | 6 |
| LST8WWW S E S | 8 | E14 | 220-240V | 370 | 6000 | 2700 | 6 |
| LST8WWW W E S | 8 | E27 | 220-240V | 370 | 6000 | 2700 | 6 |

Ambiance Candle

Suitable for a wide variety of decorative lighting and situations, creating a very pleasant and relaxed atmosphere with a high degree of visual comfort.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 8W | 119.5 | 41.5 |

Dimensions in mm

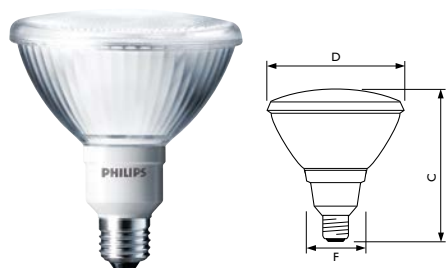
AMBIANCE CANDLE

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
|--------------|----------------|-------------|----------|----------------------------|---------------------------|--------------------|---------------|
| CND8WWWVWBC | 8 | B15 | 220-240V | 370 | 6000 | 2700 | 6 |
| CND8WWWVWBC | 8 | B22 | 220-240V | 370 | 6000 | 2700 | 6 |
| CND8WWWVWSES | 8 | E14 | 220-240V | 370 | 6000 | 2700 | 6 |

Ambiance PAR38

Due to its shape, PAR38 is ideal to replace current incandescent PAR38 applications. Suited for use in shops, office, homes and outdoors*.

* For outdoor application, we suggest using this product with light fittings greater than IP54.



| Product ID | Overall Length C max. | Diameter D max. | Width F max. |
|------------|--------------------------|--------------------|-----------------|
| 23W | 140.2 | 122 | 43.5 |

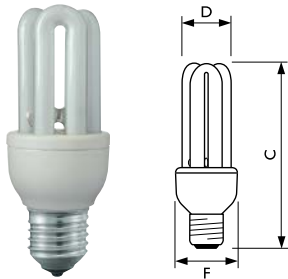
Dimensions in mm

AMBIANCE PAR38

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
|--------------|----------------|-------------|----------|----------------------------|---------------------------|--------------------|---------------|
| PAR23WWWVWES | 23 | E27 | 220-240V | 1250 | 6000 | 2700 | 6 |
| PAR23WCDLES | 23 | E27 | 220-240V | 1200 | 6000 | 2700 | 6 |

Genie

An energy saving stick-shape compact fluorescent lamp of a small size.



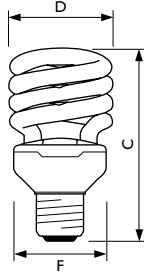
| Product ID | Overall Length C max. | Diameter D max. | Width F max. |
|------------|--------------------------|--------------------|-----------------|
| 8W | 105.5 | 35 | 44.4 |
| 11W | 117 | 35 | 44.4 |
| 14W | 132 | 35 | 44.4 |
| 18W | 135 | 41 | 48.4 |

Dimensions in mm

| GENIE | | | | | | | |
|---------------|----------------|-------------|----------|----------------------------|---------------------------|--------------------|---------------|
| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
| GENIE14WWWBC | 14 | B22 | 220-240V | 840 | 8000 | 2700 | 6 |
| GENIE14WWWES | 14 | E27 | 220-240V | 840 | 8000 | 2700 | 6 |
| GENIE14WCDLBC | 14 | B22 | 220-240V | 790 | 8000 | 6500 | 6 |
| GENIE14WCDLES | 14 | E27 | 220-240V | 790 | 8000 | 6500 | 6 |
| GENIE18WWWBC | 18 | B22 | 220-240V | 1100 | 8000 | 2700 | 6 |
| GENIE18WWWES | 18 | E27 | 220-240V | 1100 | 8000 | 2700 | 6 |
| GENIE18WCDLBC | 18 | B22 | 220-240V | 1040 | 8000 | 6500 | 6 |
| GENIE18WCDLES | 18 | E27 | 220-240V | 1040 | 8000 | 6500 | 6 |

Tornado

An energy saving twist-shape compact fluorescent lamp with optimal light distribution.



| Product ID | Overall Length C max. | Diameter D max. | Width F max. |
|------------|--------------------------|--------------------|-----------------|
| 5W | 80 | 47 | 40.5 |
| 8W | 87 | 47 | 40.5 |
| 12W | 94 | 47 | 40.5 |
| 15W | 109 | 58 | 52.5 |
| 20W | 114 | 62 | 52.4 |
| 24W | 126 | 62 | 52.5 |

Dimensions in mm

TORNADO

| Shortcode | Wattage (W) | Cap Base | Voltage | Luminous Flux Lamp (lm) | Average Lifetime (hrs) | Colour Temp (K) | Carton Qty |
|--------------|----------------|-------------|----------|----------------------------|---------------------------|--------------------|---------------|
| TND5WWWES | 5 | E27 | 220-240V | 300 | 8000 | 2700 | 6 |
| TND5WWWBC | 5 | B22 | 220-240V | 300 | 8000 | 2700 | 6 |
| TND5WWWSES | 5 | E14 | 220-240V | 300 | 8000 | 2700 | 6 |
| TND5WCDLBC | 5 | E27 | 220-240V | 285 | 8000 | 6500 | 6 |
| TND5WCDLSES | 5 | E14 | 220-240V | 280 | 8000 | 6500 | 6 |
| TND8WWWES | 8 | E27 | 220-240V | 500 | 8000 | 2700 | 6 |
| TND8WWWBC | 8 | B22 | 220-240V | 500 | 8000 | 2700 | 6 |
| TND8WWWSES | 8 | E14 | 220-240V | 500 | 8000 | 2700 | 6 |
| TND8WCDLBC | 8 | B22 | 220-240V | 475 | 8000 | 6500 | 6 |
| TND8WCDLES | 8 | E27 | 220-240V | 475 | 8000 | 6500 | 6 |
| TND12WWWES | 12 | E27 | 220-240V | 740 | 8000 | 2700 | 6 |
| TND12WWWBC | 12 | B22 | 220-240V | 740 | 8000 | 2700 | 6 |
| TND12WWWSES | 12 | E14 | 220-240V | 725 | 8000 | 2700 | 6 |
| TND12WCDLBC | 12 | B22 | 220-240V | 700 | 8000 | 6500 | 6 |
| TND12WCDLES | 12 | E27 | 220-240V | 700 | 8000 | 6500 | 6 |
| TND12WCDLSES | 12 | E14 | 220-240V | 690 | 8000 | 6500 | 6 |
| TND15WWWES | 15 | E27 | 220-240V | 950 | 8000 | 2700 | 6 |
| TND15WWWBC | 15 | B22 | 220-240V | 950 | 8000 | 2700 | 6 |
| TND20WWWES | 20 | E27 | 220-240V | 1250 | 8000 | 2700 | 6 |
| TND20WWWBC | 20 | B22 | 220-240V | 1250 | 8000 | 2700 | 6 |
| TND20WCDLES | 20 | E27 | 220-240V | 1200 | 8000 | 6500 | 6 |
| TND20WCDLBC | 20 | B22 | 220-240V | 1200 | 8000 | 6500 | 6 |
| TND24WWWES | 24 | E27 | 220-240V | 1550 | 8000 | 2700 | 6 |
| TND24WWWBC | 24 | B22 | 220-240V | 1550 | 8000 | 2700 | 6 |
| TND24WCDLES | 24 | E27 | 220-240V | 1450 | 8000 | 6500 | 6 |
| TND24WCDLBC | 24 | B22 | 220-240V | 1450 | 8000 | 6500 | 6 |

The Basics of LED Technology





LED

An LED (light emitting diode) is a semi-conductor device or chip that produces light when an electrical current is applied.

What to remember:

LEDs are just one of many components – optics, housing, power sources, to name a few – used to create an LED fixture or lamp. When looking at claims about lifetime, efficiency and design, it is important to compare the specifications of the entire LED system as a whole not just the specifications of the individual system components.

Efficiency and efficacy

The “efficacy” of a lighting fixture is usually expressed as the amount of light (in lumens) produced by a certain amount of electricity (in watts). Lighting fixture “efficiency” is the ratio of the total lumens exiting the fixture to the total lumens produced by the light source. Efficiency is also used to discuss the broader concept of using resources efficiently.

What to remember:

It is important to note that the efficacy of the LEDs themselves is always greater than the efficacy of the LED fixture. This is caused by many factors including losses as light bounces off reflectors and passes through lenses. Make sure when specifying a light fixture that you are looking at the appropriate fixture data versus the LED source data.

Lifetime

For traditional lighting sources lifetime is reported as “mean time to failure,” which means the average time it takes for some percentage of lamps (usually 50%) to fail completely. With an LED source, light output diminishes over time. Therefore for LED sources, lifetime typically refers to the useful life of the light output, which is referred to as lumen maintenance.

What to remember:

The lifetimes of LED sources and traditional light sources are defined differently. For white LEDs, lifetime is referred to as the time after which 70% of the original light output remains, not when the source has completely burnt out.

Low voltage versus line voltage

As opposed to the simplicity of direct line voltage feed, historically all LED fixtures required an external, low voltage power supply or transformer resulting in a more complex installation process than that of traditional fixtures. However, today direct line voltage LED fixtures are available.

What to remember:

Some LED fixtures can accept direct line voltage. Philips has developed Powercore® technology specifically to increase efficiency, lower the overall cost, and ease installation of LED lighting systems by integrating power management directly into the fixture. Fixtures with Powercore technology can be plugged directly into a standard wall outlet or wired directly into a standard junction box, eliminating the need for external low-voltage power supplies that can complicate installation.

Directionality

LEDs are directional sources. Traditional light sources (e.g. the incandescent bulb) emit light in all directions. In order to collect light and direct it onto the surface you are trying to illuminate, you must use lenses and reflectors, which absorb light and reduce the total output of the fixture.

What to remember:

Because an LED source is already emitting the majority of light in a defined direction, it requires significantly less beam shaping optics, leading to a more efficient light fixture. A traditional source may produce more lumens than an LED source, but it may lose much of its light when passing through the required optics. It is important to consider total illuminance, measured in foot candles or lux, when making comparisons between light fixtures.

Colour Rendering Index (CRI)

Colour Rendering Index (CRI), is a measure of the ability of a light source to render colors, compared to a reference source (incandescent or daylight), on a scale of up to 100, with 100 being identical to the reference source.

What to remember:

The higher the CRI, the better the fixture's ability to show true colours.

Sustainability

LED lighting is often linked to sustainability in the context of energy. But sustainability is a much larger concept, with energy efficiency being just one component. Sustainability takes into account environmental responsibility, including waste reduction, recyclability, materials and resources, and building and design practices themselves.

What to remember:

LED lighting supports sustainable design in several ways: it can reduce energy consumption, it requires infrequent replacement (leading to less waste), and it contains no hazardous mercury. Some LED fixtures are designed to be disassembled more easily for recycling.



LED Lamps Application Guide

Please read the following installation instructions very carefully when installing your Philips LED lamp.

- Always switch off power supply before commencing work.
- Operating temperature range of the lamp should be between -20°C and 45°C ambient. Over-heating can affect lamp performance.
- Only use in indoor applications and in open fixtures providing 10mm free air space.
- Ensure the fixture has the appropriate lamp-holder.
- Do not use or install the lamp in highly dusty or smoky environments. It is recommended that you install the lamp only after construction is completed.
- Input voltage should be +/-10% the amount stipulated in the specifications.
- Philips Dimmable LED lamps are only dimmable with compatible mix of transformers and dimmers, actual dimming performance depends on dimmer type (refer to the recommended dimmer & transformer list). Please note the different combinations based on the type of lamp and number of lamps.
- For LV MRI6 range the wiring length between lamp and transformer should be less than 1.5 metres.
- Not intended to use with emergency light fixtures or exit lights or DC transformers.
- Customer may notice a one second flicker during startup. This is normal and will not affect lamp performance and lifetime.
- Relative humidity in the installation should not exceed 80% Relative Humidity. Do not install in bathrooms, kitchens and wet areas. These lamps have no tolerance to water.
- Lamps must be protected from the ingress of salt air.
- Do not install the lamp close to medical equipment/televisions/studios/radio areas.
- Products are not subjected to more than total of 20,000 fast switches (time between "on" and "off" should be less than 10 minutes).
- Electrical installation in which the product operates must not be subjected to voltage fluctuations. The mains supply should have surge or over voltage protection equipment.
- It is also recommended that all lamps on one transformer share the same Philips brand.
- Approximate lifetimes are based on usage not exceeding 4,000 hrs/year.

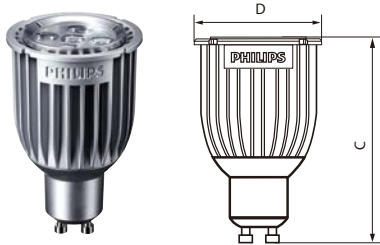
For detailed information, please visit www.philips.com.au/masterledlamps





LEDspot Mains Voltage GUI10

This lamp is similar to a traditional GUI10 halogen reflector lamp of 50W. It is ideal for a myriad of applications such as track lighting, general architectural and landscape lighting, display case fixtures and cabinet lighting.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 8W | 80.5 | 50.2 |

Dimensions in mm

LEDSPOT MAINS VOLTAGE GUI10

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Total Lumen (lm) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Min Order Quantity | Carton Qty | Dimmable |
|-----------------|----------------|-------------|----------|-------------------------------|------------------------|------------------------------|-----------------------|--------------------|--------------------------|---------------|----------|
| MLED8W27GUI025D | 8 | GUI10 | 230-240V | 1800 | 430 | 40000 | 2700 | 25 | 1 | 6 | Yes |
| MLED8W27GUI040D | 8 | GUI10 | 230-240V | 900 | 430 | 40000 | 2700 | 40 | 1 | 6 | Yes |
| MLED8W30GUI025D | 8 | GUI10 | 230-240V | 1900 | 450 | 40000 | 3000 | 25 | 1 | 6 | Yes |
| MLED8W30GUI040D | 8 | GUI10 | 230-240V | 950 | 450 | 40000 | 3000 | 40 | 1 | 6 | Yes |
| MLED8W40GUI025D | 8 | GUI10 | 230-240V | 1900 | 450 | 40000 | 4000 | 25 | 1 | 6 | Yes |
| MLED8W40GUI040D | 8 | GUI10 | 230-240V | 950 | 450 | 40000 | 4000 | 40 | 1 | 6 | Yes |

DIMMING COMPATIBILITY FOR MASTER LED GUI10, 8W* ** ***

DIMMER INFO

| Brand | Type # | Load Type | Load |
|---------|------------|-----------|----------|
| HPM | 2000E | RL | 2000W |
| HPM | 2400E | RL | 2400W |
| HPM | 1000TMWE | RC | 10-1000W |
| HPM | 700TWE | RC | 10-700W |
| Clipsal | 31E800T | RC | 800W |
| Clipsal | 2031E2PUDR | RLC | 25-450W |
| Clipsal | 5852D2T1AA | RC | 480W |
| Clipsal | 5854DIT2AA | RC | 240W |
| Clipsal | 32/2400 | RL | 2400W |
| Clipsal | 32/1000 | RL | 1000W |
| Clipsal | L5504D2A | RL | 600W |
| Clipsal | L5504D2U | RLC | 600W |
| HPM | Cat 250T | RC | 250W |
| Clipsal | 32V500 | RL | 500W |
| Clipsal | 32E2CFLDM | RC | 5-300W |
| Clipsal | 32E450UDM | RLC | 450W |
| Clipsal | 32E450TM | RC | 450W |
| Clipsal | 32E450LM | RL | 450W |
| Clipsal | 3031H500MK | R | 500W |
| HPM | Cat 400T | RC | 10-400W |
| HPM | Cat 450P | RLC | 450W |

RESULTS

| | | | | Number of Lamps | | | | | | | | | | | | | | | | | |
|---------|------------|-----|----------|-----------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| HPM | 2000E | RL | 2000W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| HPM | 2400E | RL | 2400W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| HPM | 1000TMWE | RC | 10-1000W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| HPM | 700TWE | RC | 10-700W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 31E800T | RC | 800W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 2031E2PUDR | RLC | 25-450W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 5852D2T1AA | RC | 480W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 5854DIT2AA | RC | 240W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32/2400 | RL | 2400W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32/1000 | RL | 1000W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | L5504D2A | RL | 600W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | L5504D2U | RLC | 600W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| HPM | Cat 250T | RC | 250W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32V500 | RL | 500W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32E2CFLDM | RC | 5-300W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32E450UDM | RLC | 450W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32E450TM | RC | 450W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 32E450LM | RL | 450W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Clipsal | 3031H500MK | R | 500W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| HPM | Cat 400T | RC | 10-400W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| HPM | Cat 450P | RLC | 450W | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

* Dimmable to 10% with compatible mix of dimmers and transformers.
Real dimming performance depends on dimmer type.

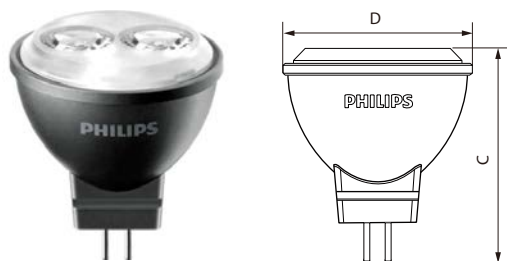
** Please check with manufacturer on availability of transformers and dimmers in Australia.

*** Philips does not accept liability for compatibility as a result of changes in dimmer or transformer specifications.



LEDspot Low Voltage MR11 – Non-dimmable

Philips 12V MASTER LED 4W MR11 is the latest in Philips' series of Low Voltage(12VAC) Halogen spot replacements. It also offers excellent accent light effect.



| Product ID | Overall Length C max. | Diameter D max. |
|------------------|--------------------------|--------------------|
| 4W | 40 | 34.6 |
| Dimensions in mm | | |

LEDSPOT LOW VOLTAGE MR11 – NON-DIMMABLE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Min Order Quantity | Carton Qty |
|------------------|----------------|-------------|---------|-------------------------------|------------------------------|--------------------|--------------------|-----------------------|---------------|
| MLEDMR112700K24D | 4 | GU4 | 12V | 580 | 25000 | 2700 | 24 | 1 | 12 |
| MLEDMR114000K24D | 4 | GU4 | 12V | 700 | 25000 | 4000 | 24 | 1 | 12 |

LEDspot Low Voltage MR16 – Non-dimmable

Delivering a warm, halogen/incandescent-like accent beam, MASTER LEDspot MR16 non-dimmable lamp is an ideal retrofit solution for spot and general lighting applications where dimming is not required. It is particularly suited to public areas such as receptions, lobbies, corridors, stairwells and washrooms in the hospitality industry. These lamps provide an alternative to traditional GU5.3 halogen reflector lamps.



| Product ID | Overall Length C max. | Diameter D max. |
|------------------|--------------------------|--------------------|
| 4W | 47.8 | 50 |
| 6.5W | 47.8 | 49.9 |
| Dimensions in mm | | |

* Image guide only.

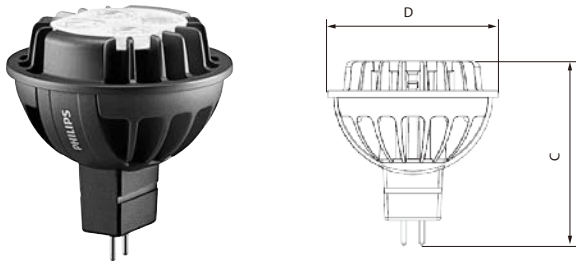
LEDSPOT LOW VOLTAGE MR16 – NON-DIMMABLE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Luminous Intensity (cd) | Luminous Flex (lm) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Min Order Quantity | Carton Qty |
|-----------------|----------------|-------------|---------|-------------------------------|--------------------------|------------------------------|--------------------|--------------------|--------------------------|---------------|
| MLED4W2700K24D | 4 | GU5.3 | 12V | 1000 | 210 | 45000 | 2700 | 24 | 1 | 10 |
| MLED4W3000K24D | 4 | GU5.3 | 12V | 1150 | 220 | 45000 | 3000 | 24 | 1 | 10 |
| MLED6.5W27K24D | 6.5 | GU5.3 | 12V | 2000 | 380 | 25000 | 2700 | 24 | 1 | 10 |
| MLED6.5W30K24D | 6.5 | GU5.3 | 12V | 2030 | 390 | 25000 | 3000 | 24 | 1 | 10 |
| MLED6.5W27K36D | 6.5 | GU5.3 | 12V | 1200 | 380 | 25000 | 2700 | 36 | 1 | 10 |
| MLED6.5W30K36D | 6.5 | GU5.3 | 12V | 1250 | 390 | 25000 | 3000 | 36 | 1 | 10 |



LEDspot Low Voltage MR16 – Dimmable

Philips 12V MASTER LED Dimmable MR16 is the latest in Philips' series of low voltage (12VAC) Halogen spot replacements. Not only does it employ Philips patented solution offering compatibility with a variety of standard 12V Halogen electronic transformers and wall dimmers, it also delivers good beam intensity. The Philips MASTER LED 7W 12V Dimmable MR16 fits into most halogen lamp fittings.



| Product ID | Overall Length C max. | Diameter D max. |
|------------------------------|--------------------------|--------------------|
| 12V MASTER LED Dimmable MR16 | 54.5 | 50.5 |

Dimensions in mm

LEDSPOT LOW VOLTAGE MR16 – DIMMABLE*

| Product Type | Voltage (V) | Power Watts (W) | Base | Power Factor | Lumen 90D cone (lm) | Total Lumen (lm) | Beam Angle | CCT (K) | Intensity (Cd) | Lifetime (Hrs) | CRI | Dimmable |
|-----------------|-------------|-----------------|-------|--------------|---------------------|------------------|------------|---------|----------------|----------------|-----|----------|
| MLED 7W27K24DIM | 12 | 7 | GU5.3 | >0.7 | 380 | 350 | 24 | 2700K | 1950 | 40,000 | >80 | Yes |
| MLED 7W3K24DIM | 12 | 7 | GU5.3 | >0.7 | 380 | 350 | 24 | 3000K | 1950 | 40,000 | >80 | Yes |
| MLED 7W4K24DIM | 12 | 7 | GU5.3 | >0.7 | 400 | 380 | 24 | 4000K | 2050 | 40,000 | >80 | Yes |
| MLED 7W27K36DIM | 12 | 7 | GU5.3 | >0.7 | 380 | 350 | 36 | 2700K | 1050 | 40,000 | >80 | Yes |
| MLED 7W3K36DIM | 12 | 7 | GU5.3 | >0.7 | 380 | 350 | 36 | 3000K | 1050 | 40,000 | >80 | Yes |
| MLED 7W4K36DIM | 12 | 7 | GU5.3 | >0.7 | 400 | 380 | 36 | 4000K | 1100 | 40,000 | >80 | Yes |
| MLED 7W27K60DIM | 12 | 7 | GU5.3 | >0.7 | 380 | 350 | 60 | 2700K | 360 | 40,000 | >80 | Yes |
| MLED 7W3K60DIM | 12 | 7 | GU5.3 | >0.7 | 380 | 350 | 60 | 3000K | 360 | 40,000 | >80 | Yes |
| MLED 7W4K60DIM | 12 | 7 | GU5.3 | >0.7 | 400 | 380 | 60 | 4000K | 380 | 40,000 | >80 | Yes |

* Refer to Dimming Compatibility table.



LEDspot Low Voltage MRI6 – Dimming Compatibility

DIMMING COMPATIBILITY FOR MASTER LED DIMMABLE MRI6 7W*

| | | Dimmable* | TRANSFORMER | | | | | | | | | | |
|----------|-----------|-----------------|----------------|--------------|--------|---------|----------|-------|--------|--------|----------|-------|------|
| | | | Brand | Osram | | | Tridonic | | | LONON | NVC | | |
| DIMMER | Brand | Model | Without Dimmer | Redback 60VA | HTM 70 | HTM 105 | HTM 150 | VIPER | Speedy | POSSUM | LNDET-50 | ET60E | |
| | | | | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass | Pass |
| DIMMER | Clipsal | 32E450UDM | | | | | | | | | | | |
| | | 32E450TM | | | | | | | | | | | |
| | | 32E2CFLDM | | | | | | | | | | | |
| | | 250Volt 500VA | | | | | | | | | | | |
| | | KB3IRD400 | | | | | | | | | | | |
| | LEGRAND | Arteor 400W | | | | | | | | | | | |
| | HPM | Cat 400L | | | | | | | | | | | |
| | | Cat 400T | | | | | | | | | | | |
| | Philips | LRD8020 | | | | | | | | | | | |
| | Lonon | NB6MB | | | | | | | | | | | |
| | TCL | V805I | | | | | | | | | | | |
| | | A805I | | | | | | | | | | | |
| | TNC | Z62-M12 | | | | | | | | | | | |
| | Dynamlite | DDMC802+DDLMI02 | | | | | | | | | | | |
| | | DDMC802+DDTM102 | | | | | | | | | | | |
| | | DLE1205 | | | | | | | | | | | |
| | PDL | 624TMWH | | | | | | | | | | | |
| | KIWI | K004U | | | | | | | | | | | |
| | | K005T | | | | | | | | | | | |
| | Panasonic | WEG57816 | | | | | | | | | | | |
| WEG57813 | | | | | | | | | | | | | |

*Philips does not accept liability for incompatibility as a result of changes in dimmer or transformer specifications.





LEDbulb A60

The new MASTER LED A60 12W bulb delivers a dimmable glow effect similar to a 60W incandescent bulb for a welcoming, warm atmosphere, making it ideal for general lighting applications. Its innovative design radiates warm light in all directions, making it a good alternative to the incandescent lamp.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 12W | 109.6 | 61.5 |

Dimensions in mm

* Image guide only.

LEDBULB A60

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty | Dimmable |
|-----------------|-------------|----------|----------|-------------------|------------------------|-----------------|--------------------|------------|----------|
| MLED12WA60E27WW | 12 | E27 | 220-240V | 806 | 25000 | 2700 | 1 | 6 | Yes |
| MLED12WA60B22WW | 12 | B22 | 220-240V | 806 | 25000 | 2700 | 1 | 6 | Yes |

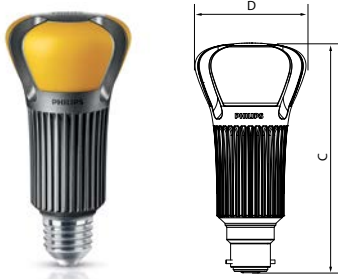
DIMMING COMPATIBILITY FOR MASTER LED A60 12W

| Brand | Type # | Load | Operation Condition | Dimmer Features | Max no. of lamps |
|---------|----------|------|---------------------|-----------------|------------------|
| CLIPSAL | 32E450LM | 450W | 220-240V, 50Hz | Leading edge | 4 max |



LEDbulb A67

The unique remote phosphor technology utilised in the MASTER LED A67 13W bulb delivers soft white light similar to a 75W incandescent bulb ideal for general lighting appliances.



* Image guide only.

| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 13W | 127 | 61 |

Dimensions in mm

LEDBULB A67

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty | Dimmable |
|-----------------|----------------|-------------|----------|-------------------------|------------------------------|--------------------|-----------------------|---------------|----------|
| MLED13WA67E27WW | 13 | E27 | 220-240V | 1055 | 25000 | 2700 | 1 | 6 | Yes |
| MLED13WA67B22WW | 13 | B22 | 220-240V | 1055 | 25000 | 2700 | 1 | 6 | Yes |





LED Decorative Candle

Delivering sparkling light effects, Novallure LED candle bulbs are ideal for general and decorative lighting in the hospitality industry, as well as in home environments. Mounted in full view in chandeliers, wall sconces or modern luminaires, the clear bulb fits existing fixtures with an E14 socket and is dimmable.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 3.5W | 113 | 39 |
| 4W | 101 | 35 |

Dimensions in mm

LED DECORATIVE CANDLE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|----------------|-------------|----------|-------------------------|------------------------------|--------------------|-----------------------|---------------|
| MLED35W27KCLOT | 3.5W | SES | 230-240V | 250 | 20000 | 2700 | 1 | 10 |
| MLED4W3000K24D | 4 | SES | 230-240V | 250 | 20000 | 3000 | 1 | 10 |



LEDspot PAR

With its robust design and warm-white beam of light, these new generation PAR lamps are ideal for general lighting and spot lighting in the hospitality industry. They are especially suitable for public areas such as lobbies, corridors, and stairwells. Compatible with existing fixtures with an E27 holder and designed for retrofit replacement of halogen lamps. The range includes an IP44-rated outdoor version PAR38 lamp.



* Image guide only.

| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 12W | 91 | 92 |
| 18W | 133 | 122 |
| 17W | 132.5 | 121.6 |

Dimensions in mm

LEDSPOT PAR

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Min Order Quantity | Carton Qty | Dimmable |
|------------------|-------------|----------|----------|-------------------|------------------------|-----------------|--------------|--------------------|------------|----------|
| ML9W27000K3025D | 9.5 | E27 | 220-240V | 650 | 40000 | 2700 | 25 | 1 | 6 | Yes |
| ML14W27000K3825D | 14.5 | E27 | 220-240V | 900 | 40000 | 2700 | 25 | 1 | 6 | Yes |
| ML17W27000K38OD | 17 | E27 | 220-240V | 810 | 25000 | 2700 | 25 | 1 | 6 | No |

DIMMING COMPATIBILITY FOR LEDSPOT PAR 9.5W PAR30*

| Dimmer Type | Brand | Type | Operating Voltage | Load | Max. Lamp Quantity |
|-------------|---------|------|-------------------|---------|--------------------|
| 32E450LM | CLIPSAL | RL | 220V, 50Hz | 450W | 3 |
| | | | 240V, 50Hz | 450W | 4 |
| 32E450UDM | CLIPSAL | RLC | 220V/240V, 50Hz | 450W | 7 |
| E303IHD | CLIPSAL | RLC | 240V, 50Hz | 40~600W | 2 |

DIMMING COMPATIBILITY FOR LEDSPOT PAR 14.5W PAR38*

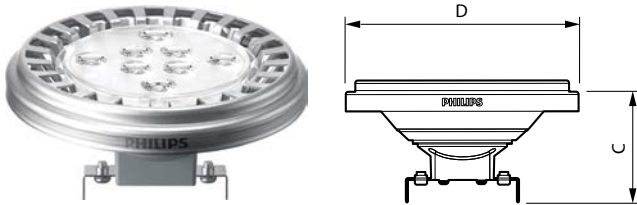
| Dimmer Type | Brand | Type | Operating Voltage | Load | Max. Lamp Quantity |
|-------------|---------|------|-------------------|---------|--------------------|
| 32E450LM | CLIPSAL | RL | 220V, 50Hz | 450W | 3 |
| | | | 240V, 50Hz | 450W | 4 |
| 32E450UDM | CLIPSAL | RLC | 220V/240V, 50Hz | 450W | 7 |
| E303IHD | CLIPSAL | RLC | 240V, 50Hz | 40~600W | 2 |

* Please check with manufacturer on availability of dimmers in Australia.



LEDspot AR111

Delivering a warm, halogen-like accent beam, MASTER LEDspot LV AR111 is an ideal retrofit solution for spot and general lighting applications in the hospitality and retail industry. It is particularly suitable for general lighting and creative accent lighting applications in shops, restaurants, hotels, and museums. The range includes dimmable versions.



| Product ID | Overall Length C max. | Diameter D max. |
|------------------|--------------------------|--------------------|
| 15W | 58.6 | 111 |
| Dimensions in mm | | |

LEDSPOT AR111

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Beam Angle ° | Min Order Quantity | Carton Qty | Dimmable |
|------------------|----------------|-------------|---------|-------------------------|------------------------------|--------------------|--------------------|-----------------------|---------------|----------|
| ML15WAR111WW24DM | 15 | G53 | 12V | 830 | 45000 | 2700 | 24 | 1 | 6 | Yes |
| ML15WAR111WW40DM | 15 | G53 | 12V | 830 | 45000 | 2700 | 40 | 1 | 6 | Yes |

DIMMING COMPATIBILITY FOR LEDSPOT LV AR111*

| | Brand | Model | Transformer compatibility | Clipsal | Clipsal | Clipsal | HPM | HPM |
|---------|----------------|--------|------------------------------|--------------------|----------|----------|---------|---------|
| | | | | 32E450UD M 450W | 32E450TM | 32E450LM | Cat400L | Cat400T |
| Philips | ET-S60 | I Lamp | Pass | | | • | • | • |
| OSRAM | ECO-ET105 | I Lamp | Pass | • | • | • | | • |
| | HTM I05/230-24 | I Lamp | Pass | • | • | • | | • |

* Please check with manufacturer on availability of transformers and dimmers in Australia.

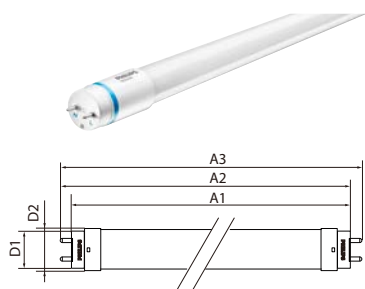


LEDtube

Philips MASTER LEDtube integrates a LED light source with a frosted cover design into the traditional linear fluorescent form. Philips MASTER LEDtube is an advanced alternative to the classic linear fluorescent lamp and is designed for multiple general lighting applications such as:

Main Applications: • Offices • Industrial • Parking lots • Railway stations • Warehouses • Supermarket/Shops
• School • Hospital • Cold stores

Note: EPM 050 must be purchased separately with each Philips LEDtube.



| Product ID | Length | A1 | A2 | A3 | CI | DI | D2 |
|------------|--------|-------|-------|-------|----|-------|----|
| 10W | 600mm | 588.5 | 595.5 | 602.5 | - | 25.68 | 28 |
| 15W | 900mm | 893.5 | 900.5 | 907.5 | - | 25.68 | 28 |
| 19W | 1200mm | 1198 | 1205 | 1212 | - | 25.68 | 28 |
| 24W | 1500mm | 1500 | 1507 | 1514 | - | 25.68 | 28 |

Dimensions in mm

LEDTUBE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|-------------|----------|----------|-------------------|------------------------|-----------------|--------------------|------------|
| TLED10W4000KG13 | 10 | G13 | 100-240V | 825 | 40000 | 4000 | 10 | 10 |
| TLED10W6500KG13 | 10 | G13 | 100-240V | 825 | 40000 | 6500 | 10 | 10 |
| TLED15W4000KG13 | 15 | G13 | 100-240V | 1265 | 40000 | 4000 | 10 | 10 |
| TLED15W6500KG13 | 15 | G13 | 100-240V | 1265 | 40000 | 6500 | 10 | 10 |
| TLED16W4000KG13 | 16 | G13 | 100-240V | 1600 | 40000 | 4000 | 10 | 10 |
| TLED16W6500KG13 | 16 | G13 | 100-240V | 1600 | 40000 | 6500 | 10 | 10 |
| TLED20W4000KG13 | 20 | G13 | 100-240V | 2100 | 40000 | 4000 | 10 | 10 |
| TLED20W6500KG13 | 20 | G13 | 100-240V | 2100 | 40000 | 6500 | 10 | 10 |
| MLEDSTARTEMP050 | - | - | - | - | - | - | 10 | 10 |

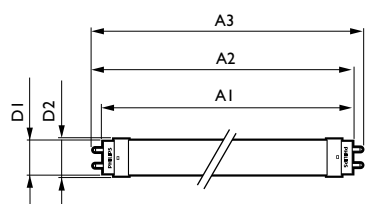




CorePro LEDtube

The CorePro LEDtube is an affordable LED solution suitable for replacing T8 fluorescent lamps on electromagnetic (Em) ballast installations. The product provides a natural lighting effect for use in general lighting applications.

Main Applications: • Car park • Warehouses • Signage



| Product ID | Length | A1 | A2 | A3 | CI | DI | D2 |
|------------|--------|-------|-------|-------|----|-------|----|
| 10W | 600mm | 588.5 | 595.5 | 602.5 | - | 25.68 | 28 |
| 15W | 900mm | 893.5 | 900.5 | 907.5 | - | 25.68 | 28 |
| 19W | 1200mm | 1198 | 1205 | 1212 | - | 25.68 | 28 |
| 24W | 1500mm | 1500 | 1507 | 1514 | - | 25.68 | 28 |

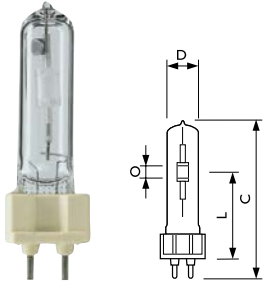
Dimensions in mm

LEDTUBE

| Commercial Code | Wattage (W) | Cap Base | Voltage | Lumen Output (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|-------------|----------|----------|-------------------|------------------------|-----------------|--------------------|------------|
| TLED10W4000KG13 | 10 | G13 | 200-240V | 800 | TBC | 4000 | 10 | 10 |
| TLED10W6500KG13 | 10 | G13 | 200-240V | 800 | TBC | 6500 | 10 | 10 |
| TLED20W4000KG13 | 20 | G13 | 220-240V | 1600 | TBC | 4000 | 10 | 10 |
| TLED20W6500KG13 | 20 | G13 | 220-240V | 1600 | TBC | 6500 | 10 | 10 |

Ceramic Metal Halide - Master CDM-T

Range of single-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light. Long lamp life compared with incandescent and halogen lamps. Low heat output and UV-block for reduced fading risks. Available in small CDM-T, for use with ballast and ignitor or electronic gear.



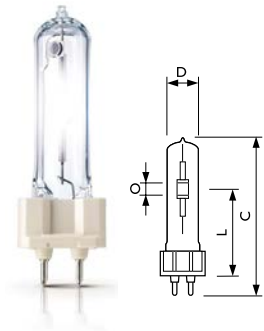
| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 20W | 103 | 20 | 56 | 4 |
| 35W | 103 | 20 | 56 | 5 |
| 70W | 103 | 20 | 56 | 7 |
| 150W | 110 | 20 | 56 | 9 |

Dimensions in mm

MASTER CDM-T

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|-----------------------------------|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMT20W830 | MASTERC CDM-T 20W/830 G12 ICT/I2 | 20 | G12 | 1800 | 12000 | 3000 | 1 | 12 |
| CDMT35W942 | MASTERC CDM-T 35W/942 G12 ICT/I2 | 35 | G12 | 3150 | 12000 | 4200 | 1 | 12 |
| CDMT70W942 | MASTERC CDM-T 70W/942 G12 ICT/I2 | 70 | G12 | 6600 | 12000 | 4200 | 1 | 12 |
| CDMT150W942 | MASTERC CDM-T 150W/942 G12 ICT/I2 | 150 | G12 | 12000 | 12000 | 4200 | 1 | 12 |

Master CDM-T Elite



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 35W | 103 | 20 | 56 | 5 |
| 50W | 103 | 20 | 56 | 6 |
| 70W | 103 | 20 | 56 | 7 |
| 150W | 110 | 20 | 56 | 9 |

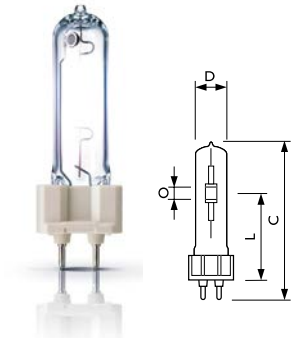
Dimensions in mm

MASTER CDM-T ELITE

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|---|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTEL35W930 | MASTER CDM-T Elite 35W/930 G12 ICT/I2 | 35 | G12 | 4000 | 15000 | 3000 | 1 | 12 |
| CDMTEL35W942 | MASTER CDM-T Elite 35W/942 G12 ICT | 35 | G12 | 3800 | 15000 | 4200 | 1 | 12 |
| CDMTEL50W930 | MASTER CDM-T Elite 50W/930 G12 ICT/I2 | 50 | G12 | 5400 | 15000 | 3000 | 1 | 12 |
| CDMTEL70W930 | MASTERC CDM-T Elite 70W/930 G12 ICT/I2 | 70 | G12 | 7500 | 15000 | 3000 | 1 | 12 |
| CDMTEL70W942 | MASTERC CDM-T Elite 70W/942 G12 ICT | 70 | G12 | 7500 | 15000 | 4200 | 1 | 12 |
| CDMTEL150W930 | MASTERC CDM-T Elite 150W/930 G12 ICT/I2 | 150 | G12 | 15000 | 15000 | 3000 | 1 | 12 |

Master CDM-T Elite Light Boost

MasterColour CDM-T/TC Light Boost puts an end to the stark choice of complete darkness or full-on brightness, as this breakthrough innovation enables you to vary light levels significantly by dimming or boosting, while still maintaining excellent quality of light.



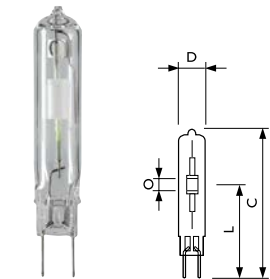
| Product ID | Overall Length | Diameter | Light Centre | Arc Length |
|------------|----------------|----------|--------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 70W | 103 | 20 | 56 | 7 |

Dimensions in mm

MASTER CDM-T ELITE LIGHT BOOST

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------------------------------|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTLB70W930 | CDM-T Elite Light Boost 70W/930 G12 | 70 | G12 | 7650 | 15000 | 3000 | 1 | 12 |
| CDMTLB70W942 | CDM-T Elite Light Boost 70W/942 G12 | 70 | G12 | 6500 | 15000 | 4200 | 1 | 12 |

Master CDM-TC



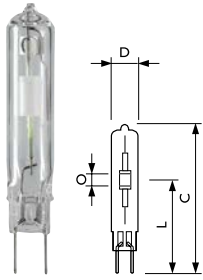
| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 20W | 103 | 20 | 56 | 4 |
| 35W | 103 | 20 | 56 | 5 |
| 70W | 103 | 20 | 56 | 7 |

Dimensions in mm

MASTER CDM-TC

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-------------|------------------------------------|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTC20W830 | MASTERC CDM-TC 20W/830 G8.5 ICT/12 | 20 | G8.5 | 1800 | 12000 | 3000 | 1 | 12 |
| CDMTC35W942 | MASTERC CDM-TC 35W/942 G8.5 ICT/12 | 35 | G8.5 | 3000 | 12000 | 4200 | 1 | 12 |
| CDMTC70W942 | MASTERC CDM-TC 70W/942 G8.5 ICT/12 | 70 | G8.5 | 6500 | 12000 | 4200 | 1 | 12 |

Master CDM-TC Elite



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 35W | 103 | 20 | 56 | 5 |
| 50W | 103 | 20 | 56 | 6 |
| 70W | 103 | 20 | 56 | 7 |

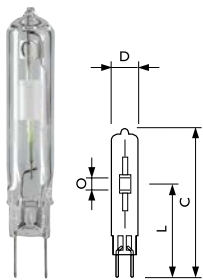
Dimensions in mm

MASTER CDM-TC ELITE

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|---|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTCEL35W930 | MASTER CDM-TC Elite 35W/930 G8.5 ICT/12 | 35 | G8.5 | 4000 | 15000 | 3000 | 1 | 12 |
| CDMTCEL35W942 | MASTER CDM-TC Elite 35W/942 G8.5 ICT/12 | 35 | G8.5 | 3700 | 15000 | 4200 | 1 | 12 |
| CDMTCEL50W930 | MASTER CDM-TC Elite 50W/930 G8.5 ICT/12 | 50 | G8.5 | 5400 | 15000 | 3000 | 1 | 12 |
| CDMTCEL70W930 | MASTER CDM-TC Elite 70W/930 G8.5 ICT/12 | 70 | G8.5 | 7650 | 15000 | 3000 | 1 | 12 |
| CDMTCE70W942 | MASTER CDM-TC Elite 70W/942 G8.5 ICT | 70 | G8.5 | 7400 | 15000 | 4200 | 1 | 12 |

Master CDM-TC Elite Light Boost

MasterColour CDM-T/TC Light Boost puts an end to the stark choice of complete darkness or full-on brightness, as this breakthrough innovation enables you to vary light levels significantly by dimming or boosting, while still maintaining excellent quality of light.



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 70W | 103 | 20 | 56 | 7 |

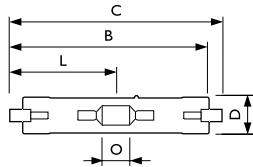
Dimensions in mm

MASTER CDM-TC ELITE LIGHT BOOST

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|--|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTCL70W930 | MC CDM-TC Elite Light Boost 70W/930 G8.5 | 70 | G8.5 | 7650 | 15000 | 3000 | 1 | 12 |
| CDMTCL70W942 | MC CDM-TC Elite Light Boost 70W/942 G8.5 | 70 | G8.5 | 6500 | 15000 | 4200 | 1 | 12 |

Master CDM-TD

CDM-TD range of double-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light. UV-block for reduced health and fading risks. Direct retrofit in place for quartz metal halide lamps providing lower operating costs, reduced heat output, and better light quality.



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|--------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| CDMTD70W830 | 119.63 | 22 | | 8 |
| CDMTD70W942 | 119.63 | 22 | | 7 |
| CDMTD150W830 | 137.43 | 25 | | 10 |
| CDMTD150W942 | 137.43 | 25 | | 10 |

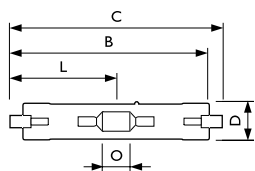
Dimensions in mm

MASTER CDM-TD

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------------------------------|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTD70W830 | MASTERC CDM-TD 70W/830 RX7s ICT/I2 | 70 | RX7s | 6500 | 15000 | 3000 | 1 | 12 |
| CDMTD70W942 | MASTERC CDM-TD 70W/942 RX7s ICT/I2 | 70 | RX7s | 6000 | 15000 | 4200 | 1 | 12 |
| CDMTD150W830 | MASTERC CDM-TD 150W/830 RX7s ICT/I2 | 150 | RX7s | 13250 | 15000 | 3000 | 1 | 12 |
| CDMTD150W942 | MASTERC CDM-TD 150W/942 RX7s ICT/I2 | 150 | RX7s | 14200 | 15000 | 4200 | 1 | 12 |

MHN-TD

High pressure quartz metal halide gas discharge lamps in a compact linear tube which offers high performance together with high colour rendering. MHN-TD lamps require control gear to operate and have a recommended burning position of ± 45 degrees from the horizontal.



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length | |
|------------|----------------|----------|---------------------|------------|--------|
| | C max. | D max. | L nom. | O nom. | B nom. |
| 70W | 139 | 24 | 64.9 | 17.8 | 132 |
| 150W | 139 | 24 | 64.9 | 17.8 | 132 |

Dimensions in mm

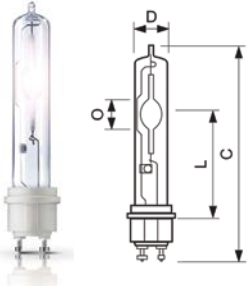
MHN-TD

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-----------------------------|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| MHNTD70W730 | MHN-TD 70W/730 RX7s ICT/I2 | 70 | RX7s | 6200 | 9000 | 3000 | 1 | 12 |
| MHNTD70W842 | MHN-TD 70W/842 RX7s ICT/I2 | 70 | RX7s | 5700 | 10500 | 4200 | 1 | 12 |
| MHNTD150W730 | MHN-TD 150W/730 RX7s ICT/I2 | 150 | RX7s | 13800 | 10500 | 3000 | 1 | 12 |
| MHNTD150W842 | MHN-TD 150W/842 RX7s ICT/I2 | 150 | RX7s | 12900 | 10500 | 4200 | 1 | 12 |

CDM-/TP Medium Wattage Elite

Protected, high efficiency, discharge lamps with stable colour over lifetime and a crisp, sparkling light. Features double UV block quartz sleeves and a hard glass outer bulb for use in open fixtures, with reduced fading risks. Requires ballast and igniters, and a high current protection device for CDM-TP is mandatory (IEC 1167).

Electronic gear can be used to increase lamp-life, improve system efficacy, and offer flicker-free operation.



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 210W | 188 | 29 | 92 | 12.1 |
| 315W | 188 | 29 | 92 | 14 |

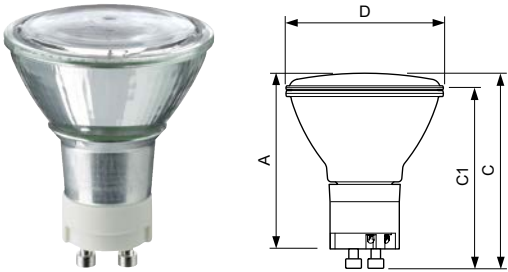
Dimensions in mm

CDMT/TP MW ELITE

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|---|-------------|----------|---------------|------------------------|-----------------|--------------------|------------|
| CDMTPMWEL210W93 | MASTERCLOUR CDM-TP MW Elite 210W/930 PGZX18 (P) | 210 | PGZX18 | 23100 | 27000 | 3000 | 12 | 12 |
| CDMTPMWEL210W94 | MASTERCLOUR CDM-TP MW Elite 210W/942 PGZX18 (P) | 210 | PGZX18 | 22100 | 30000 | 4200 | 12 | 12 |
| CDMTPMWEL315W93 | MASTERCLOUR CDM-TPMW Elite 315W/930 PGZX18 (P) | 315 | PGZX18 | 36200 | 30000 | 3000 | 12 | 12 |
| CDMTPMWEL315W94 | MASTERCLOUR CDM-TPMW Elite 315W/942 PGZX18 (P) | 315 | PGZX18 | 34700 | 30000 | 4200 | 12 | 12 |

CDM-R Mini

Provides users with a compact, high-efficiency, discharge reflector lamp. Low operating costs, long-lamp life, UV block for reduced fading risk and a stable colour impression all benefit the shop owner. Low heat output and crisp, sparkling light, enhances the experience for shoppers and staff. Requires CDM electronic HID driver.



| Product ID | A max. | C max. | Cl max. | D nom. | D max. |
|------------|--------|--------|---------|--------|--------|
| 20W | 59 | 65.4 | 60.9 | 50 | 50.7 |
| 35W | 59 | 65.4 | 60.9 | 50 | 50.7 |

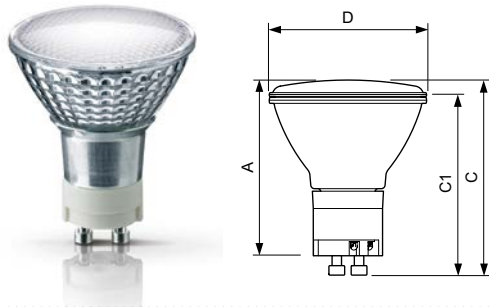
Dimensions in mm

CDM-R MINI

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|-----------------------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| CDMRM20W83040 | CDM-Rm 20W /830 40 Deg GX10 | 20 | GX10 | 2100 | 15000 | 3000 | 1 | 12 |
| CDMRM35W94215 | CDM-Rm 35W /942 15 Deg GX10 | 35 | GX10 | 12000 | 9000 | 4200 | 1 | 12 |
| CDMRM35W94225 | CDM-Rm 35W /942 25 Deg GX10 | 35 | GX10 | 5500 | 9000 | 4200 | 1 | 12 |
| CDMRM35W94240 | CDM-Rm 35W /942 40 Deg GX10 | 35 | GX10 | 2800 | 9000 | 4200 | 1 | 12 |

CDM-R Mini Elite

The easy way to reflect more sparkle. The new Philips MasterColour CDM- R Mini Elite brings trusted quality to 50mm reflector lamps and with the superior output and colour stability to create the right atmosphere to match your customers retail brand and positioning.



| Product ID | A max. | C max. | Cl max. | D nom. | D max. |
|------------|--------|--------|---------|--------|--------|
| 35W | 59 | 65.4 | 60.9 | 50 | 50.7 |
| 50W | 59 | 65.4 | 60.9 | 50 | 50.7 |

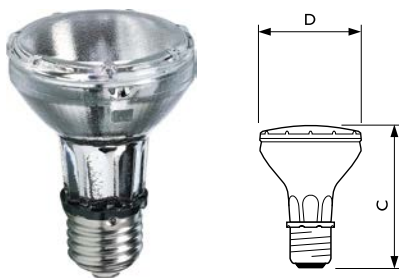
Dimensions in mm

CDM-R MINI ELITE

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|-------------------------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| CDMRM35W93010 | CDM-Rm Elite Mini 35W/930 10D | 35 | GX10 | 20000 | 12000 | 3000 | 1 | 12 |
| CDMRM35W93025 | CDM-Rm Elite Mini 35W/930 25D | 35 | GX10 | 8500 | 12000 | 3000 | 1 | 12 |
| CDMRM35W93040 | CDM-Rm Elite Mini 35W/930 40D | 35 | GX10 | 4400 | 12000 | 3000 | 1 | 12 |
| CDMRME50W93060 | CDM-Rm Elite Mini 50W/930 60D | 35 | GX10 | 3000 | 12000 | 3000 | 1 | 12 |
| CDMRME50W93025 | CDM-Rm Elite Mini 50W/930 25D | 50 | GX10 | 11500 | 12000 | 3000 | 1 | 12 |
| CDMRME50W93040 | CDM-Rm Elite Mini 50W/930 40D | 50 | GX10 | 7000 | 12000 | 3000 | 1 | 12 |

CDM-R PAR 20

Provides users with a compact, high-efficiency, discharge reflector lamp. Low operating costs, long-lamp life, UV block for reduced fading risk and a stable colour impression all benefit the shop owner. Low heat output and crisp, sparkling light, enhances the experience for shoppers and staff.



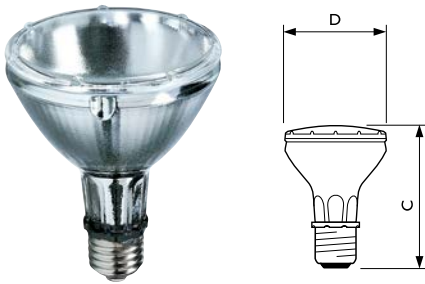
| Product ID | Overall Length C max. | Diameter D max. |
|------------|-----------------------|-----------------|
| PAR20 | 95 | 65 |

Dimensions in mm

CDM-R PAR 20

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|-------------------------------------|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| CDMR35W8302010 | CDM-R 35W /830 E27 PAR20 10D ICT/12 | 35 | E27 | 23000 | 9000 | 3000 | 1 | 12 |
| CDMR35W8302030 | CDM-R 35W /830 E27 PAR20 30D ICT/12 | 35 | E27 | 5000 | 9000 | 3000 | 1 | 12 |
| CDMR35W9422010 | CDM-R 35W /942 E27 PAR20 10D ICT/12 | 35 | E27 | 21500 | 9000 | 4200 | 1 | 12 |
| CDMR35W9422030 | CDM-R 35W /942 E27 PAR20 30D ICT/12 | 35 | E27 | 5000 | 9000 | 4200 | 1 | 12 |

CDM-R PAR 30



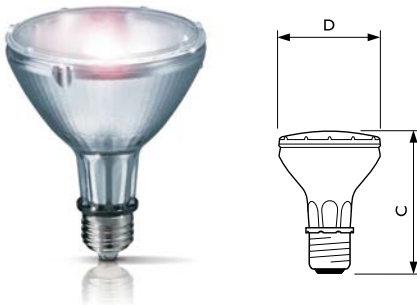
| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| PAR30L | 123 | 95 |

Dimensions in mm

CDM-R PAR 30

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|-------------------------------------|----------------|----------|----------------------------|---------------------------|--------------------|-----------------------|---------------|
| CDMR70W9423010 | CDM-R 70W /942 E27 PAR30L 10D 1CT/6 | 70 | E27 | 63000 | 12000 | 4200 | 1 | 12 |
| CDMR70W9423030 | CDM-R 70W /942 E27 PAR30L 30D 1CT/6 | 70 | E27 | 13000 | 12000 | 4200 | 1 | 12 |
| CDMR70W9423040 | CDM-R 70W /942 E27 PAR30L 40D 1CT/6 | 70 | E27 | 9000 | 12000 | 4200 | 1 | 12 |

CDM-R PAR 30 Elite



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| PAR30L | 123 | 95 |

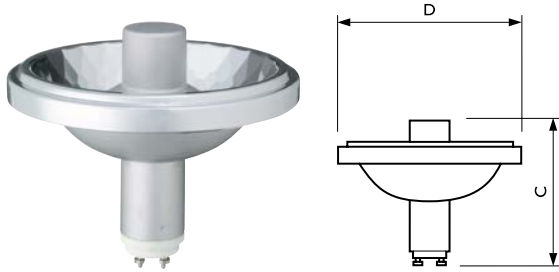
Dimensions in mm

CDM-R PAR 30 ELITE

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|---------------------------------------|----------------|----------|----------------------------|---------------------------|--------------------|-----------------------|---------------|
| CDMR35W93030 | MC CDM-R Elite 35W/930 E27 PAR30L 30D | 35 | E27 | 7800 | 12000 | 3000 | 1 | 12 |
| CDMR35W93010 | MC CDM-R Elite 35W/930 E27 PAR30L 10D | 35 | E27 | 52000 | 12000 | 3000 | 1 | 12 |
| CDMR70W93040 | MC CDM-R Elite 70W/930 E27 PAR30L 40D | 70 | E27 | 10000 | 11000 | 3000 | 1 | 12 |
| CDMR70W93030 | MC CDM-R Elite 70W/930 E27 PAR30L 30D | 70 | E27 | 15000 | 11000 | 3000 | 1 | 12 |
| CDMR70W93010 | MC CDM-R Elite 70W/930 E27 PAR30L 10D | 70 | E27 | 70000 | 11000 | 3000 | 1 | 12 |

CDM-R III

Offering the benefits of a Mastercolour PAR in the stylish look of a 111mm aluminium reflector lamp.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 20W | 95 | 111 |
| 35W | 95 | 111 |
| 70W | 95 | 111 |

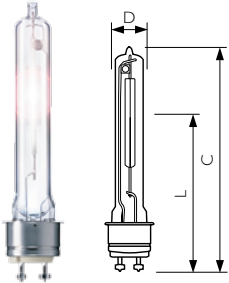
Dimensions in mm

CDM-R III

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Intensity (cd) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|---|-------------|----------|-------------------------|------------------------|-----------------|--------------------|------------|
| CDMR11120W83024 | MASTERC CDM-R111 20W/830 24D ICT/6 | 20 | GX8.5 | 4500 | 9000 | 3000 | 1 | 6 |
| CDMR11120W83010 | MASTERC CDM-R111 20W/830 10D ICT/6 | 20 | GX8.5 | 20000 | 9000 | 3000 | 1 | 6 |
| CDMR11135W83040 | MASTERC CDM-R111 35W/830 40D ICT/6 | 35 | GX8.5 | 4000 | 11000 | 3000 | 1 | 6 |
| CDMR11135W83024 | MASTERC CDM-R111 35W/830 24D ICT/6 | 35 | GX8.5 | 8500 | 11000 | 3000 | 1 | 6 |
| CDMR11135W83010 | MASTERC CDM-R111 35W/830 10D ICT/6 | 35 | GX8.5 | 35000 | 11000 | 3000 | 1 | 6 |
| CDMR11135W94240 | MASTERC CDM-R111 35W /942 GX8.5 40D ICT/6 | 35 | GX8.5 | 4000 | 9000 | 4200 | 1 | 6 |
| CDMR11135W94224 | MASTERC CDM-R111 35W /942 GX8.5 24D ICT/6 | 35 | GX8.5 | 8500 | 9000 | 4200 | 1 | 6 |
| CDMR11135W94210 | MASTERC CDM-R111 35W /942 GX8.5 10D ICT/6 | 35 | GX8.5 | 35000 | 9000 | 4200 | 1 | 6 |
| CDMR11170W83040 | MASTERC CDM-R111 70W/830 40D ICT/6 | 70 | GX8.5 | 9000 | 9000 | 3000 | 1 | 6 |
| CDMR11170W83024 | MASTERC CDM-R111 70W/830 24D ICT/6 | 70 | GX8.5 | 15000 | 9000 | 3000 | 1 | 6 |
| CDMR11170W83010 | MASTERC CDM-R111 70W/830 10D ICT/6 | 70 | GX8.5 | 50000 | 9000 | 3000 | 1 | 6 |
| CDMR11170W94240 | MASTERC CDM-R111 70W /942 GX8.5 40D ICT/6 | 70 | GX8.5 | 9000 | 11000 | 4200 | 1 | 6 |
| CDMR11170W94224 | MASTERC CDM-R111 70W /942 GX8.5 24D ICT/6 | 70 | GX8.5 | 15000 | 11000 | 4200 | 1 | 6 |
| CDMR11170W94210 | MASTERC CDM-R111 70W /942 GX8.5 10D ICT/6 | 70 | GX8.5 | 50000 | 11000 | 4200 | 1 | 6 |

CosmoPolis Outdoor

New-generation ceramic metal halide lamps for outdoor lighting with white light, using a new lamp base and clear quartz outer bulb.



| Product ID | Overall Length C max | Diameter D max. | Arc Length O | Light Centre Length L |
|------------|-------------------------|--------------------|-----------------|-----------------------|
| 45W | 132 | 20 | 15 | 59 |
| 60W | 132 | 20 | 14 | 59 |
| 90W | 143 | 20 | 18 | 66 |
| 140W | 147 | 20 | 20 | 66 |

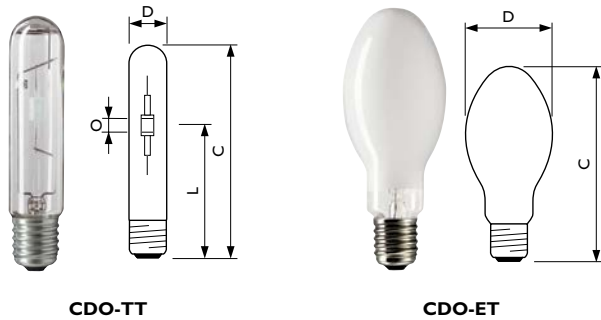
Dimensions in mm

COSMOPOLIS OUTDOOR

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|--|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| CPOTWEXTRA45W72 | MST CosmoWh CPO-TW Xtra 45W/728 PGZ12 | 45 | PGZ12 | 4950 | 30000 | 2800 | 12 | 12 |
| CPOWHITE60W728 | MASTER Cosmo CPOT White 60W/728 PGZ12 | 60 | PGZ12 | 7200 | 30000 | 2800 | 1 | 12 |
| CPOWHITE60W840 | MASTER Cosmo CPOT White 60W/840 PGZ12 | 60 | PGZ12 | 7020 | 16000 | 4000 | 12 | 12 |
| CPOWHITE90W728 | MASTER Cosmo CPOT White 90W/728 PGZ12 | 90 | PGZ12 | 10450 | 30000 | 2800 | 12 | 12 |
| CPOWHITE90W840 | MASTER Cosmo CPOT White 90W/840 PGZ12 | 90 | PGZ12 | 10350 | 15000 | 4000 | 12 | 12 |
| CPOWHITE140W728 | MASTER Cosmo CPOT White 140W/728 PGZ12 | 140 | PGZ12 | 16500 | 24000 | 2800 | 1 | 12 |
| CPOWHITE140W840 | MASTER Cosmo CPOT White 140W/840 PGZ12 | 140 | PGZ12 | 16100 | 15000 | 4000 | 1 | 12 |

CDO-TT & CDO-ET Elliptical

The Mastercolour City range of high intensity discharge lamps feature a CDM Mastercolour discharge tube placed in a high pressure sodium lamp outer bulb. The result is a robust lamp which emits a pleasant light, with stable colour and excellent colour rendering (Ra>80), and which is compatible with a SON ballast and igniters.



| Product ID | Overall Length C max. | Diameter D max. | Arc Length O | Light Centre Length L |
|------------|-----------------------|-----------------|--------------|-----------------------|
| CDOTT 70W | 156 | 32.5 | 7 | 102 |
| CDOTT 150W | 211 | 48 | 9 | 135 |
| CDOTT 250W | 254 | 47 | 25.4 | 158 |
| CDOTT 400W | 279 | 47 | 32 | 175 |
| CDOET 70W | 156 | 71 | NA | NA |
| CDOET 150W | 230 | 91 | NA | NA |

Dimensions in mm

CDO-TT & CDO-ET ELLIPTICAL

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|---|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| CDOTT70W828 | MASTER CITYWH CDO-TT PLUS 70W/828 E27 | 70 | E27 | 7500 | 16000 | 2800 | 12 | 12 |
| CDOTT150W828 | MASTER CITYWH CDO-TT PLUS 100W/828 E40 | 100 | E40 | 10700 | 16000 | 2800 | 12 | 12 |
| CDMTT400W840 | MASTERC CITY CDM-TT 400W/840 E40 SLV/12 | 400 | E40 | 34000 | 9000 | 4000 | 12 | 12 |
| CDOET70W828 | MASTER CITYWH CDO-ET PLUS 70W/828 E27 | 70 | E27 | 7230 | 16000 | 2800 | 12 | 12 |
| CDOET150W828 | MASTER CITYWH CDO-ET PLUS 150W/828 E40 | 150 | E40 | 15100 | 16000 | 2800 | 12 | 12 |

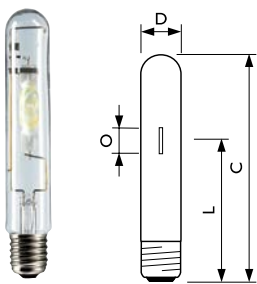
HPI-T Quartz Metal Halide

Quartz metal halide lamps in tubular shape with clear outer bulb (HPI-T), or ovoid shape with coated outer bulb (HPI). Features unique 3-band technology for high luminous efficacy over a long lifetime. Metal halide gas discharge lamps designed to be suitable in retrofit applications, HPI(T) Plus lamps are compatible with high pressure sodium control gear as well as standard metal halide control gear. This makes it possible to enjoy the benefits of quality colour and exceptional performance without a costly gear upgrade for retrofit sodium systems. HPI(T) Plus offers a high lumen output, good efficacy and excellent colour rendition.

“S”- type for direct retrofit for HPL lamps, due to its internal ignitor

“P”- type is suitable for use in open luminaires

Lamps run on sodium and metal halide control gear



| Product ID | Overall Length | Diameter D max. | Light Centre Length L max. | Arc Length |
|------------|----------------|-----------------|----------------------------|------------|
| | C max. | D max. | L max. | O max. |
| 250W | 257 | 47 | 155 | 29 |
| 400W | 286 | 47 | 172 | 40 |
| 1000W | 382 | 66 | 240 | 80 |
| 2000W/380V | 430 | 102 | 267 | 120 |
| 2000W/220V | 430 | 102 | 290 | 89 |

Dimensions in mm

HPI-T QUARTZ METAL HALIDE

| Shortcode | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| HPITPLUS250WGES | 250 | E40 | 25000 | 20000 | 4300 | 1 | 12 |
| HPITPLUS400WGES | 400 | E40 | 42500 | 20000 | 4300 | 1 | 12 |
| HPIT1000WGES | 1000 | E40 | 50000 | 10000 | 4300 | 1 | 4 |
| HPIT2KW22VGES | 2000 | E40 | 189000 | 10000 | 4200 | 1 | 4 |
| HPIT2KW380VGES | 2000 | E40 | 210000 | 10000 | 3800 | 1 | 4 |

HPI PLUS Quartz Metal Halide

Energy saving compact fluorescent lamp. Compact long-arc low-pressure mercury discharge lamp envelope consists of 6 parallel narrow fluorescent tubes.

Features:

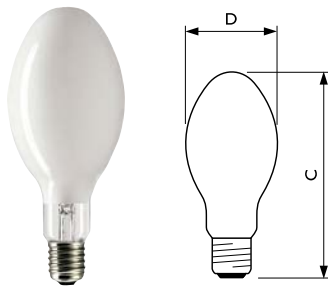
- Ovoid, internally white coated outer bulb.
- 3-band technology resulting in high luminous efficacy, both initially and over long lifetime.
- Available in cool white and daylight colour appearance demonstrating good colour stability.
- "S"- type for direct retrofit for HPL lamps.
- "P"- type for use without protective front shield.

Luminaires:

- HPI Plus BU-P and BUS-P suitable for use in open luminaires.
- For other HPI Plus lamps a protective front glass is required.

System:

- Can be run on HPI-gear as well as on SON-gear ("Plus"-concept). The results in both light output and colour temperature are different.
- HPI Plus BUS and BUS-P types require an HPL-gear and no ignitor.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 250W | 226 | 91 |
| 400W | 290 | 122 |

Dimensions in mm

MASTER HPI PLUS OVOID COATED METAL HALIDE LAMPS (BASE UP,IGNITOR REQUIRED)

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|-----------------------------|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| HPIP250WBUGES | HPI PLUS 250W BU E40.1CT/12 | 250 | E40 | 20500 | 20000 | 4500 | 1 | 12 |
| HPIP400WBUGES | HPI PLUS 400W BU E40.1CT/6 | 400 | E40 | 32000 | 20000 | 4500 | 1 | 6 |

HPI PLUS Quartz Metal Halide continued

MASTER HPI PLUS OVOID COATED, (BASE UP,IGNITOR REQUIRED, PROTECTED)

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|--|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| HPIP250WBUPGES | MASTER HPI Plus 250W/745 BU-P E40 SLV/12 | 250 | E40 | 18000 | 20000 | 4500 | 1 | 12 |
| HPIP400WBUPGES | MASTER HPI Plus 400W/745 BU-P E40 SLV/6 | 400 | E40 | 32500 | 20000 | 4500 | 1 | 6 |

MASTER HPI PLUS OVOID COATED (BASE UP,SELF START, NO IGNITOR REQUIRED)

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|-----------------------------|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| HPIP400WBUSGES | HPI-PLUS 400W BUS E40.1CT/6 | 400 | E40 | 32500 | 20000 | 4500 | 1 | 6 |

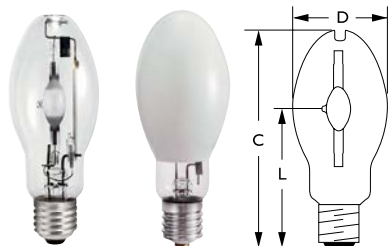
MASTER HPI PLUS OVOID COATED, (SELF START, NO IGNITOR REQUIRED, PROTECTED)

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|--|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| HPIP400WBUSPGES | MASTER HPI Plus 400W/745 BUS-P E40 SLV/6 | 400 | E40 | 32500 | 20000 | 4500 | 1 | 6 |

Metal Halide - Universal Operating Ovoid

Metal halide gas discharge lamps offer good luminous efficacy, good colour rendering and reliable long life. In an ovoid style, with coated outer-bulb, and operates at any position.

Low wattage lamps with extra quartz tube around discharge tube prevents risk of outer bulb shattering when abnormally operated or at end of life.



| Product ID | Overall Length | Diameter | Light Centre Length |
|---------------|----------------|----------|---------------------|
| | C max. | D max. | L max. |
| 70W/100W/150W | 141 | 56 | 83 |

Dimensions in mm

METAL HALIDE - UNIVERSAL OPERATING OVOID

| Shortcode | Description | Type | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|----------------|-----------------------------|--------|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| MH70W640PESCO | MH 70W/640 P E27 CO SLV/24 | Coated | 70 | E27 | 5300 | 10000 | 4000 | 1 | 24 |
| MH70W640PESCL | MH 70W/640 P E27 CL SLV/24 | Clear | 70 | E27 | 5300 | 10000 | 4000 | 1 | 24 |
| MH100W640PESCO | MH 100W/640 P E27 CO SLV/24 | Coated | 100 | E27 | 8500 | 10000 | 4000 | 1 | 24 |
| MH100W640PESCL | MH 100W/640 P E27 CL SLV/24 | Clear | 100 | E27 | 8500 | 10000 | 4000 | 1 | 24 |
| MH150W640PESCO | MH 150W/640 P E27 CO SLV/24 | Coated | 150 | E27 | 13000 | 10000 | 4000 | 1 | 24 |
| MH150W640PESCL | MH 150W/640 P E27 CL SLV/24 | Clear | 150 | E27 | 13000 | 10000 | 4000 | 1 | 24 |

Metal Halide - ArenaVision/OptiVision Lamps

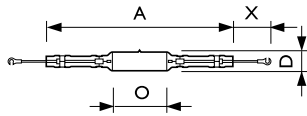
MHN-SA/MHN-LA lamps with their excellent natural white colour, high luminous efficacy and compact size are designed to meet the demanding requirements of professional sports lighting and flood lighting applications.

Double pinch concept results in longer lifetime. Available in short arc (MHN-SA) and long arc (MHN-LA) versions.

MHN-SA X830



MHN-SA PSFC20



| Product ID | Overall Length | Diameter | Light Centre Length | X nom. |
|------------|----------------|----------|---------------------|--------|
| | C max. | D max. | L max. | |
| 1800W | 294 | 40 | 405 | 35 |
| 2000W | 364 | 40 | 108 | 58 |

Dimensions in mm

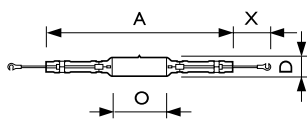
METAL HALIDE - SHORT ARC

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|-----------------|--|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| MHNSA1800W2309R | MASTER MHN-SA 1800W/956 X830R 230V UNP/I | 1800 | X830ROD | 155000 | 5000 | 5600 | 1 | 4 |
| MHNSA1800W4009P | MASTER MHN-SA 1800W/956 (P)SFC 400V UNP | 1800 | PSFC20-6 | 160000 | 5000 | 5600 | 1 | 4 |
| MHNSA1800W2309P | MASTER MHN-SA 1800W/956 (P)SFC 230V UNP | 1800 | PSFC20-6 | 155000 | 5000 | 5600 | 1 | 4 |
| MHNSA2KW4009R | MASTER MHN-SA 2000W/956 X830R 400V UNP | 2000 | X830ROD | 200000 | 5000 | 5600 | 1 | 4 |

MHN-LA 2000W



MHN-LA 1000W



| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|---------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L max. | O nom. |
| 1800W/X830R | 318 | 41 | 25 | 25 |
| 2000W/X830R | 318 | 41 | 25 | 25 |
| 1800W (P) SFC | 364 | 41 | 25 | 25 |

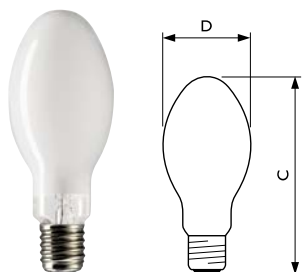
Dimensions in mm

METAL HALIDE - LONG ARC

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|---------------|---|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| MHNLA1KW2309C | MASTER MHN-LA 1000W/956 X528/C 230V UNP | 1000 | X528 | 90000 | - | 5600 | 1 | 4 |
| MHNLA1KW2308C | MASTER MHN-LA 1000W/842 X528/C 230V UNP | 1000 | X528 | 100000 | 10000 | 4200 | 1 | 4 |
| MHNLA2KW4009C | MASTER MHN-LA 2000W/956 X528/C 400V UNP | 2000 | X528 | 190000 | 12000 | 5600 | 1 | 4 |
| MHNLA2KW4008C | MASTER MHN-LA 2000W/842 X528/C 400V UNP | 2000 | X528 | 220000 | 12000 | 4200 | 1 | 4 |

Sodium Lamps

High pressure sodium vapour lamps have a sintered aluminium oxide discharge tube enclosed in an internally coated outer bulb. They offer a long, reliable lifetime and have excellent lumen maintenance. SON lamps require control gear to operate and have a universal burning position.



| Product ID | C max. | D max. |
|------------|--------|--------|
| 50W, 70W | 156 | 71 |
| 150W, 250W | 226 | 91 |
| 400W | 290 | 122 |

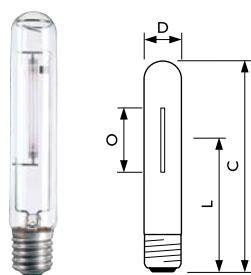
Dimensions in mm

SON

| Shortcode | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Envelope | Min Order Quantity | Carton Qty |
|------------|-------------|----------|--------------------|------------------------|-----------------------------|-----------------|----------|--------------------|------------|
| SON150WES | 50 | E27 | 3400 | 28000 | 25 | 2000 | CO | 1 | 24 |
| SON170WES | 70 | E27 | 5600 | 28000 | 25 | 2000 | CO | 1 | 24 |
| SON70WES | 70 | E27 | 5600 | 28000 | 25 | 2000 | CO | 1 | 24 |
| SON150WGES | 150 | E40 | 14500 | 28000 | 25 | 2000 | CO | 1 | 12 |
| SON250WGES | 250 | E40 | 27000 | 28000 | 25 | 2000 | CO | 1 | 12 |
| SON400WGES | 400 | E40 | 48000 | 28000 | 25 | 2000 | CO | 1 | 12 |

SON-T

High Pressure Sodium lamps with clear tubular outer bulb.



| Product ID | C max. | D max. | L nom. | O nom. |
|------------|--------|--------|--------|--------|
| 150W | 257 | 48 | 158 | 70 |
| 250W | 257 | 48 | 158 | 70 |
| 400W | 283 | 48 | 175 | 87 |
| 1000W | 390 | 67 | 240 | 153 |

Dimensions in mm

SON-T

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Rendering Index (Ra) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|-------------------------|-------------|----------|--------------------|------------------------|-----------------------------|-----------------|--------------------|------------|
| SONT150WGES | SON-T 150W E E40 SLV/12 | 150 | E40 | 15000 | 28000 | 25 | 2000 | 1 | 12 |
| SONT250WGES | SON-T 250W E E40 SLV/12 | 250 | E40 | 28000 | 28000 | 25 | 2000 | 1 | 12 |
| SONT400WGES | SON-T 400W E E40 SLV/12 | 400 | E40 | 48000 | 28000 | 25 | 2000 | 1 | 12 |
| SONT1000WGES | SON-T 1000W E E40 SLV/4 | 1000 | E40 | 130000 | 16000 | 25 | 2000 | 1 | 4 |

SON-T PIA

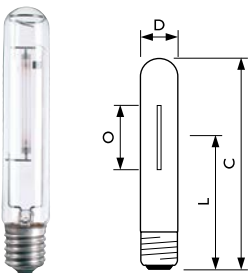
High pressure sodium lamp with clear tubular outer bulb, high output and long reliable lifetime.

| SON-T PIA | | | | | | | | |
|------------------|--|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
| SONTPLUS70WES | MASTER SON-T PIA PLUS 70W E E27 SLV/I2 | 70 | E27 | 6600 | 28000 | 2000 | 1 | 12 |
| SONTHGFRI100WGES | MASTER SON T APIA PLUS HG FREE 100W E40 | 100 | E40 | 10000 | 38000 | 2100 | 1 | 12 |
| SONTHGFRI150WGES | SON-T PIA HGFR 150W E40 SLV/I2 | 150 | E40 | 18000 | 38000 | 2000 | 1 | 12 |
| SONTHGFREE250G | MST SON-T APIA PLUS HG FREE 250W E40 ISL | 250 | E40 | 32200 | 38000 | 2100 | 1 | 12 |
| SONTPPLUS400W | MASTER SON T PIA PLUS HG FREE 400W/E40 | 400 | E40 | 56000 | 38000 | 2100 | 1 | 12 |
| SONTPLUS600WG | MST SON-T PIA PLUS 600W/220 E40 ISL/I2 | 600 | E40 | 90000 | 30000 | 2000 | 1 | 12 |

Sodium - High Pressure Tubular Agro

SON-T Agro lamp was specifically developed for use in the professional plant growing market. The lamp matches the lighting needs of many kinds of plants, both in respect of lighting level and in spectral composition of the light.

Suitable for use on SON control gear.



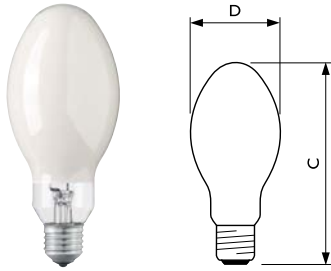
| Product ID | Overall Length | Diameter | Light Centre Length | Arc Length |
|------------|----------------|----------|---------------------|------------|
| | C max. | D max. | L nom. | O nom. |
| 400W AGRO | 283 | 47 | 175 | 83 |
| 600W | 283 | 47 | 174.2 | 126 |

Dimensions in mm

| SON-T AGRO | | | | | | | | |
|-----------------|------------------------------|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
| SONTAGRO400WGES | SON-T AGRO 400W E E40 SLV/I2 | 400 | E40 | 48000 | 30000 | 2000 | 1 | 12 |

Mercury - High Pressure Ovoid

High pressure mercury vapour lamps with a quartz discharge tube enclosed in an internally coated ovoid outer bulb. For indoor or outdoor applications. HPL-N lamps require control gear to operate and have a universal burning position.



| Product ID | Overall Length C max. | Diameter D max. |
|------------|--------------------------|--------------------|
| 50W | 130 | 56 |
| 80W | 135 | 71 |
| 125W | 171.5 | 76 |
| 250W | 228 | 91 |
| 400W | 290 | 121.5 |

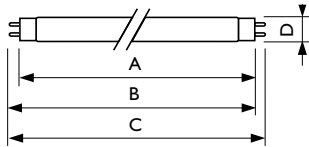
Dimensions in mm

HPL-N

| Shortcode | Description | Wattage (W) | Cap Base | Luminous Flux (lm) | Average Lifetime (hrs) | Colour Temp (K) | Min Order Quantity | Carton Qty |
|--------------|------------------------------|-------------|----------|--------------------|------------------------|-----------------|--------------------|------------|
| HPLN50WES | HPL-N 50W E27 SG ICT/24 | 50 | E27 | 1800 | 24000 | 4200 | 1 | 24 |
| HPLN80WES | HPL-N 80W E27 SG ICT/24 | 80 | E27 | 3700 | 24000 | 4200 | 1 | 24 |
| HPLN125WES | HPL-N 125W E27 SG ICT/24 | 125 | E27 | 6200 | 24000 | 4200 | 1 | 24 |
| HPLN250WGES | HPL-N 250W E40 HG ICT/12 | 250 | E40 | 12700 | 16000 | 4100 | 1 | 12 |
| HPLN400WGES | HPL-N 400W E40 HG ICT/6 | 400 | E40 | 22000 | 16000 | 3900 | 1 | 6 |
| HPLN700WGES | HPL-N 700W/542 E40 HG CRP/6 | 700 | E40 | 38500 | 12000 | 3900 | 1 | 6 |
| HPLN1000WGES | HPL-N 1000W/542 E40 HG CRP/6 | 1000 | E40 | 58500 | 12000 | 3900 | 1 | 6 |

UV - Blacklight Blue

Low-pressure, mercury vapour, fluorescent lamps. These lamps have an inner envelope coated in a fluorescent powder emitting long wave UV radiation to excite luminescence.



| Product ID | Base to Base A | Insert Length B | Overall Length C max. | Diameter D max. |
|------------|----------------|-----------------|-----------------------|-----------------|
| 18W | 589.8 | 596.9 | 604 | 28 |
| 36W | 1199.4 | 1206.5 | 1213.6 | 28 |

Dimensions in mm

UV - BLACKLIGHT BLUE

| Shortcode | Wattage (W) | Cap Base | UV-A Radiation (W) | Min Order Quantity | Carton Qty |
|-----------|-------------|----------|--------------------|--------------------|------------|
| TLD18W108 | 18 | G13 | 3.5 | 25 | 25 |
| TLD36W108 | 36 | G13 | 8.0 | 25 | 25 |



Stand Alone Controls



ToBeTouched

Simplicity Itself.

People working in busy office, school, shop, hospitality and health care environments don't have time to waste working out how to operate the lighting. Building upon the iconic design and user-friendliness of the colour ring used in LivingColours, the ToBeTouched range of intuitive user interfaces brings the same style and ease of interaction to professional lighting applications.

The dynamic “Light Wheel”, can change its appearance to visualise different light parameters including brightness, colour, saturation and colour temperature. The user can select which parameter to edit and the “Light Wheel” changes according to the selection. The “what you see is what you get” visualisation of the “Light Wheel” makes it intuitive and easy for the user to predict the result of his or her choice. The soft touch control and the dynamic light ring enriches the experience and adds an element of wonder.

ToBeTouched currently comprises four models. These range from a simple on/off switch, plus a version with dimming, through to a cool/warm white controller and a full-colour model.

Assisting the user with light, sound and colour feedback, these easy-to-install interfaces make operating a lighting system easy – and fun!



| TOBETOUCHED | | |
|-------------------|--|--------------------|
| Commercial Code | Description | Min Order Quantity |
| UID8520DIMDALI | UID8520 TOBETOUCHED DIM DALI | 1 |
| UID8523LIGHTBOOST | UID8523/00 CDM LIGHT BOOST CONTROLLER | 1 |
| UID8530CTDMX | UID8530 TOBETOUCHED COLOUR TEMPERATURE DMX | 1 |
| UID8540RGBDMX | UID8540 TOBETOUCHED COLOUR DMX | 1 |
| UIA8550TBTPSU | UIA8550 TOBETOUCHED POWER SUPPLY UNIT | 1 |

OccuSwitch DALI

The OccuSwitch DALI is a combined sensor and controller. It will dim and switch the lights in a room or area on occupancy and available daylight, with options for local override, parallel operation. A detachable wiring connector enables easy installation and mounting in the ceiling. Separate Wieland cables are available for an even easier, fast and trouble-free installation.



| OCCUSWITCH DALI | | |
|-----------------|---------------------|--------------------|
| Commercial Code | Description | Min Order Quantity |
| LRM2070DALI | LRM2070/10 BASIC | 1 |
| LRM2080DALI | LRM2080/10 ADVANCED | 1 |

Occuswitch - LRM1000 Movement Detector

LRM1000 is a ceiling mountable 360 degree motion detector, with built in photo cell sensor and adjustable switch off delay (10sec - 5min), and is capable of switching 2000VA



| OCCUSWITCH - LRM1000 | | |
|----------------------|-----------------------|--------------------|
| Commercial Code | Description | Min Order Quantity |
| LRM1000 | LRM1000/00 OS Mov Det | 1 |

Occuswitch - LRM1010 Movement Detector Small

LRM1010 is a recessed surface mounted 360D motion detector, with a built in photo cell sensor and adjustable switch off delay (10sec - 5min). It is capable of switching 1000VA, and has an adjustable directional lense.



OCCUSWITCH - LRM1010

| Commercial Code | Description | Min Order Quantity |
|-----------------|-----------------------------|--------------------|
| LRM1010 | LRM1010/00 OS Mov Det Small | 1 |

Occuswitch - LRM1040 Movement Detector 180D Wall/Corner

LRM1040 is a wall or corner mounted 180D movement detector, with built in photo cell sensor and adjustable switch off delay (5sec - 12min). It is capable of switching 2000VA, and has selectable Auto/Off mode.

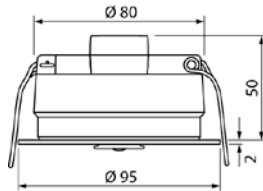


OCCUSWITCH - LRM1040

| Commercial Code | Description | Min Order Quantity |
|-----------------|-----------------------------------|--------------------|
| LRM1040 | LRM1040/00 OS Mov Det Ip44 180Dgr | 1 |

Occuswitch - LRM1070 Movement Detector

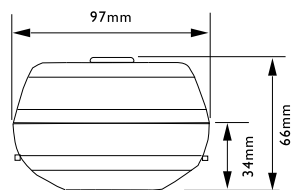
LRM1070 is a movement detector with a built in lighting switch. The unit is designed for the automatic switching of light in indoor applications, with a light sensor range between 10 and 1000 lux. It comes with 360D movement detection, with built in photo cell sensor and adjustable switch of delay (1min - 30min). It is capable of switching 1380 VA, and can run parallel operation. The product also comes with an optional surface mount box accessory.



| OCCUSWITCH - LRM1070 | | |
|----------------------|--|--------------------|
| Commercial Code | Description | Min Order Quantity |
| LRM1070 | LRM1070/00 Sensr Mov Det St | 1 |
| LRH1070 | LRH1070/00 Sensr Surface Box (to suit Occuswitch LRM1070/00) | 1 |

Highbay Sensor: High Bay 360° Occupancy Sensor

Philips LRM 2510 high bay occupancy sensor with Passive Infrared (PIR) technology operates on line voltage and switch loads directly without the need for power packs. They install to a junction box or fixture and have a detection pattern that covers the typical area of three fixtures.



| HIGHBAY SENSOR: HIGH BAY 360° OCCUPANCY SENSOR | | |
|--|-----------------------------------|--------------------|
| Commercial Code | Description | Min Order Quantity |
| LRM2510 | LRM 2510/00 PIR HIGH BAY HV SENSR | 15 |

Electronic Control Gear





HF Regulator Intelligent Touch & DALI for TL5, TL5 Eco, TLD and PLL

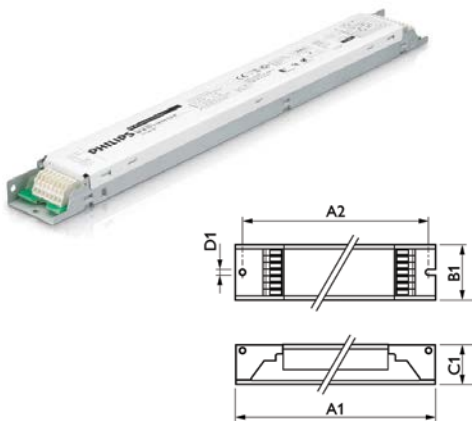
Intelligent high-frequency electronic dimming ballast, using DALI (Digital Addressable Lighting Interface according to IEC62386) or Touch and Dim push-button protocol for fluorescent lamps. Pre-empting upcoming legislation meeting AI BAT (Best Available Technology) requirements. With a special command you can retrieve the mains power consumption of the system, and with another command you can ask which lamp wattages are connected.

Benefits:

- Extremely low stand-by losses, controlled cut-off for dim levels above 80%, hybrid control dimming (current control at 100% and power control at 1%), combined with MASTER TL5 Eco for extra energy savings
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved
- Compliant with European and Asian norms and suitable for emergency lighting systems

Features:

- The HF-R Intelligent recognises which lamp (T5 HE, HO, ECO or TL-D) is connected and is operated accordingly
- Programmed start: flicker-free ignition < 1.0 second and striation free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations and dimming from 1 to 100%
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement



| Product ID | A1 (Norm) | A2 (Norm) | B1 (Norm) | C1 (Norm) | D1 (Norm) |
|---|--------------|--------------|--------------|--------------|--------------|
| HF-Ri TD 1 35/49/80 TL5 E+ | 360.0 | 350.0 | 30.0 | 22.0 | 4.1 |
| HF-Ri TD 1 28/35/49/54 TL5 E+ | 360.0 | 350.0 | 30.0 | 22.0 | 4.1 |
| HF-Ri TD 2 28/35/49/54 TL5 E+ | 360.0 | 350.0 | 30.0 | 22.0 | 4.1 |
| HF-Ri TD 1 14/21/24/39 TL5 E+ | 360.0 | 350.0 | 30.0 | 22.0 | 4.1 |
| HF-Ri TD 2 14/21/24/39 TL5 E+ | 360.0 | 350.0 | 30.0 | 22.0 | 4.1 |
| HF-Ri TD 3 14/24 TL5 E+ 195-240V 50/60Hz | 360.0 | 350.0 | 39.0 | 22.0 | 4.2 |
| HF-Ri TD 4 14/24 TL5 E+ 195-240V 50/60Hz | 360.0 | 350.0 | 39.0 | 22.0 | 4.2 |

Dimensions in mm

HF Regulator Intelligent Touch & DALI for TL5, TL5 Eco, TLD and PLL

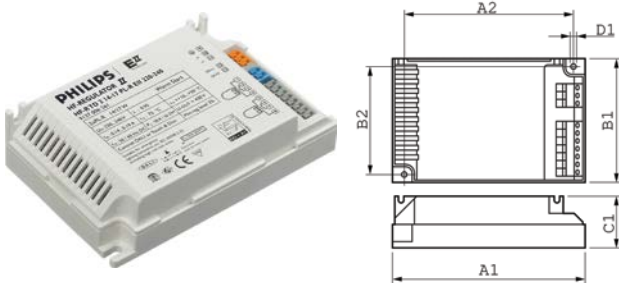
continued

| HF-Ri TD | | | | | |
|------------------|------------------------------------|-------------|----------|--------------------|------------|
| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
| HFRI114/21/24/39 | HF-Ri TD 1 14/21/24/39 TL5 TLD PLL | 14/21/24/39 | 220-240V | 1 | 12 |
| HFRI214/21/24/39 | HF-Ri TD 2 14/21/24/39 TL5 TLD PLL | 14/21/24/39 | 220-240V | 1 | 12 |
| HFRI128/35/49/54 | HF-Ri TD 1 28/35/49/54 TL5 TLD PLL | 28/35/49/54 | 220-240V | 1 | 12 |
| HFRI228/35/49/54 | HF-Ri TD 2 28/35/49/54 TL5 TLD PLL | 28/35/49/54 | 220-240V | 1 | 12 |
| HFRI135/49/80 | HF-Ri TD 1 35/49/80 TL5 TLD PLL | 35/49/80 | 220-240V | 1 | 12 |
| HF-Ri TD 314/24 | HF-Ri TD 314/24 TL5 | 14/24 | 220-240V | 12 | 12 |
| HF-Ri TD 414/24 | HF-Ri TD 414/24 TL5 | 14/24 | 220-240V | 12 | 12 |

| Shortcode | T5 HE/T5 ECO HE | | | | T5 HO/T5 ECO HO | | | | | TLD | | | PLL | | | | |
|-------------------------------|-----------------|-------|-------|-------|-----------------|-------|-------|-------|-------|-----|----|----|-----|----|----|----|----|
| | 14/13 | 21/19 | 28/25 | 35/32 | 24/20 | 39/34 | 54/50 | 49/45 | 80/73 | 18 | 36 | 58 | 24 | 36 | 40 | 55 | 80 |
| HF-Ri TD 1 14/21/24/39 TL5 E+ | • | • | | | • | • | | | | | • | | • | • | • | | |
| HF-Ri TD 2 14/21/24/39 TL5 E+ | • | • | | | • | • | | | | | • | | • | • | • | | |
| HF-Ri TD 1 28/35/49/54 TL5 E+ | | | • | • | | | • | • | | | | • | | | | | • |
| HF-Ri TD 2 28/35/49/54 TL5 E+ | | | • | • | | | • | • | | | | • | | | | | • |
| HF-Ri TD 1 35/49/80 TL5 E+ | | | | • | | | | • | • | | | | | | | | • |

HF Regulator Touch & DALI for PL-R Eco

HF-Regulator II Touch DALI for PL-T, PL-C and PL-R lamps – Dimming: a next step in energy saving. Low stand-by losses, together with controlled dimming. HF operation improves light quality, lamp lifetime. Combined with controls, additional energy savings can be achieved.



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Height C1 | Fixing Hole Diameter D1 |
|---------------------------------|--------------|--------------------------------------|-------------|--------------|-------------------------------|
| HF-RTD 1 14-17 PL-R EII 123 111 | 79 | 33 | 4.5 | ? | |

Dimensions in mm

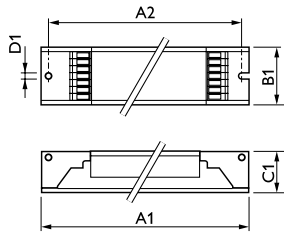
HF-RTD PL-R ECO

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------------|-----------------------------------|----------------|----------|-----------------------|---------------|
| HFRTD1 14-17PLR | HF-RTD 1 14-17 PL-R EII 220-240V | 14/17 | 220-240V | 12 | 12 |
| HFRTD214-17PLR | HF-R TD 2 14-17 PL-R EII 220-240V | 14/17 | 220-240V | 12 | 12 |

HF Performer III (Fixed Output) for TL5, TL5 Eco and TLD

One of the most energy efficient fixed output (A2 BAT), slim, high frequency electronic ballast for fluorescent lamps. HF-operation reduces eye strain as caused by electromagnetic ballasts. Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle free re-lamping.

- Key features:**
- Programmed, flicker-free, preheated start (< 1.0s)
 - 100,000 hour lifetime at Ta 50°C and over 100,000 on/off switches on one lamp
 - Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle free re-lamping



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Height C1 | Fixing Hole Diameter D1 |
|--------------------|-----------|--------------------------------|----------|-----------|-------------------------|
| TL5 I and 2x lamp | 360 | 350 | 30 | 22 | 4.2 |
| TL-D I and 2x lamp | 280 | 265 | 30 | 28 | 4.2 |

Dimensions in mm

TL5

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|--------------------------|--|-------------|----------|--------------------|------------|
| HFP114-35TL5III | HF-P 1 14-35 TL5 HE III 220-240V 50/60Hz | 14/21/28/35 | 220-240V | 1 | 12 |
| HFP214-35TL5III | HF-P 2 14-35 TL5 HE III 220-240V 50/60Hz | 14/21/28/35 | 220-240V | 1 | 12 |
| HFP149TL5HOIII IDC | HF-P 149 TL5 HO III 220-240V 50/60Hz IDC | 49 | 220-240V | 1 | 12 |
| HFP249TL5HOIII IDC | HF-P 249 TL5 HO III 220-240V 50/60Hz IDC | 49 | 220-240V | 1 | 12 |
| HFP154/155TL5HO/PLLI IDC | HF-P 154/155 TL5 HO/PLL III 220-240V IDC | 54/55 | 220-240V | 1 | 12 |
| HFP254/255TL5HO/PLLI IDC | HF-P 254/255 TL5 HO/PLL III 220-240V IDC | 54/55 | 220-240V | 1 | 12 |

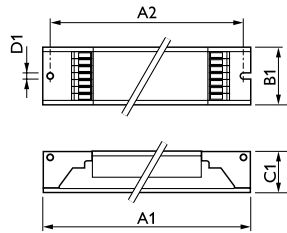
TL-D

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------|--|-------------|----------|--------------------|------------|
| HFP118TLD | HF-P 118 TL-D III 220-240V 50/60Hz IDC | 18 | 220-240V | 1 | 12 |
| HFP136TLD | HF-P 136 TL-D III 220-240V 50/60Hz IDC | 36 | 220-240V | 1 | 12 |
| HFP158TLD | HF-P 158 TL-D III 220-240V 50/60Hz IDC | 58 | 220-240V | 1 | 12 |
| HFP218TLD | HF-P 218 TL-D III 220-240V 50/60Hz IDC | 18 | 220-240V | 1 | 12 |
| HFP236TLD | HF-P 236 TL-D III 220-240V 50/60Hz IDC | 36 | 220-240V | 1 | 12 |
| HFP258TLD | HF-P 258 TL-D III 220-240V 50/60Hz IDC | 58 | 220-240V | 1 | 12 |

HF Selectalume II (Fixed Output) for TL5 and TLD

Affordable, reliable, high frequency electronic ballast for TL5 and TLD fluorescent lamps, ideal alternative for electromagnetic (EM) ballasts.

- Key features:**
- Energy efficient CELMA A2, savings of 25% energy compared to electromagnetic “C-type” ballasts
 - Robust design for 70,000 hour lifetime at Ta=50°C with >50,000 on/off switches on one lamp
 - Warm, flicker-free start
 - High power factor 0.98 with THD <10%
 - Automatic restart after voltage dip or lamp exchange



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Height C1 | Fixing Hole Diameter D1 |
|--------------------|-----------|--------------------------------|----------|-----------|-------------------------|
| TL5 I and 2x lamp | 280 | 265 | 30 | 21.5 | 4.2 |
| TL-D I and 2x lamp | 280 | 265 | 30 | 28 | 4.2 |

Dimensions in mm

TL5

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|----------------|-----------------------------|-------------|----------|--------------------|------------|
| HFS114-35TL5II | HF-S 114-21 TL5 II 220-240V | 14/21 | 220-240V | 1 | 12 |
| HFS214TL5II | HF-S 214 TL5 II 220-240V | 14 | 220-240V | 1 | 12 |
| HFS128-35TL5II | HF-S 128-35 TL5 II 220-240V | 28/35 | 220-240V | 1 | 12 |
| HFS221-28TL5II | HF-S 221-28 TL5 II 220-240V | 21/28 | 220-240V | 1 | 12 |

TLD

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-------------|---------------------------|-------------|----------|--------------------|------------|
| HFS118TLDII | HF-S 118 TL-D II 220-240V | 18 | 220-240V | 1 | 12 |
| HFS218TLDII | HF-S 218 TL-D II 220-240V | 18 | 220-240V | 1 | 12 |
| HFS136TLDII | HF-S 136 TL-D II 220-240V | 36 | 220-240V | 1 | 12 |
| HFS236TLDII | HF-S 236 TL-D II 220-240V | 36 | 220-240V | 1 | 12 |

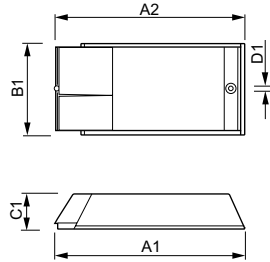
HID-Primavision (Fixed output) Mini

Indoor one-piece electronic ballasts for optimum performance of 20W to 150W CDM discharge lamps. The benefits of electronic gear versus conventional gear are the elimination of lamp flicker, and increase in lamp life of up to 30%, and a reduction of colour shift and simple installation.

“I”- type Independent version, with strain relief, for stand-alone operation.

“S” - type Standard version, for in-fixture operation.

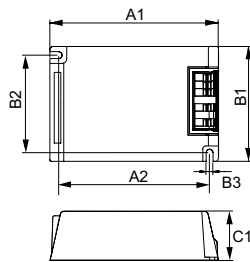
“I” TYPE



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Height C1 | Fixing Hole Diameter D1 |
|------------------|-----------|--------------------------------|----------|-----------|-------------------------|
| HIDPVm I | 190.0 | 154.0 | 43.3 | 30.0 | - |
| HIDPVC 35/70 I | 188.0 | 170.0 | 62.7 | 34.5 | 4.8 |
| HIDPVC 100/150 I | 223.9 | 206.0 | 82.7 | 34.2 | 4.8 |

Dimensions in mm

“S” TYPE



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Fixing Hole Distance Width B1 | Height C1 | Fixing Hole Diameter D1 |
|------------------|-----------|--------------------------------|----------|-------------------------------|-----------|-------------------------|
| HIDPVm S | 97.3 | 88.3 | 43.3 | - | 30.5 | 4.2 |
| HIDPVC 35/70 S | 109.6 | 98.5 | 74.4 | 63.7 | 32.2 | 4.9 |
| HIDPVC 100/150 S | 135.0 | - | 75.0 | - | 32.0 | 4.8 |

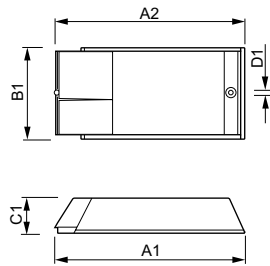
Dimensions in mm

HID PRIMAVISION FOR CDM LAMPS

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------------|---|-------------|----------|--------------------|------------|
| HIDPVmPGJ520w/S | HID-PV m PGJ5 20 /S CDM HPF 220-240V | 20 | 220-240V | 1 | 12 |
| HIDPVmPGJ520W/I | HID-PV m PGJ5 20 /I CDM LPF 220-240V | 20 | 220-240V | 1 | 12 |
| HIDPVmPGJ520WFP | HID-PV m PGJ5 20/FP CDM LPF 220-240V | 20 | 220-240V | 1 | 12 |
| HIDPVm020SCDM | HID-PV m 20 /S CDM HPF 220-240V 50/60Hz | 20 | 220-240V | 1 | 12 |
| HIDPVm020ICDM | HID-PV m 20 /I CDM HPF 220-240V 50/60Hz | 20 | 220-240V | 1 | 12 |
| HIDPVm020FPCDM | HID-PV m 1x020/FP CDM HPF 220-240V | 20 | 220-240V | 1 | 12 |
| HIDPVm035SCDM | HID-PV m 1x035/S CDM HPF 220-240V | 35 | 220-240V | 1 | 12 |
| HIDPVm035ICDM | HID-PV m 1x035/I CDM HPF 220-240V | 35 | 220-240V | 1 | 12 |
| HIDPVm035FPCDM | HID-PV m 1x035/FP CDM HPF 220-240V | 35 | 220-240V | 1 | 12 |

HID-Primavision (Fixed output) continued

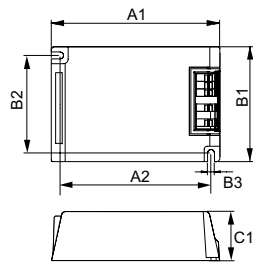
“I & FP” TYPES



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Height C1 | Fixing Hole Diameter D1 |
|------------------|-----------|--------------------------------|----------|-----------|-------------------------|
| HIDPVm I | 190.0 | 154.0 | 43.3 | 30.0 | - |
| HIDPVC 35/70 I | 188.0 | 170.0 | 62.7 | 34.5 | 4.8 |
| HIDPVC 100/150 I | 223.9 | 206.0 | 82.7 | 34.2 | 4.8 |

Dimensions in mm

“S” TYPE



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Fixing Hole Distance Width B1 | Height C1 | Fixing Hole Diameter D1 |
|------------------|-----------|--------------------------------|----------|-------------------------------|-----------|-------------------------|
| HIDPVm S | 97.3 | 88.3 | 43.3 | - | 30.5 | 4.2 |
| HIDPVC 35/70 S | 109.6 | 98.5 | 74.4 | 63.7 | 32.2 | 4.9 |
| HIDPVC 100/150 S | 135.0 | - | 75.0 | - | 32.0 | 4.8 |

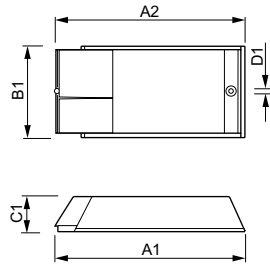
Dimensions in mm

HID PRIMAVISION FOR CDM LAMPS

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|------------------|---|-------------|----------|--------------------|------------|
| HIDPVC50/SCDM | HID-PV C 50 /S CDM 220-240V 50/60Hz | 50 | 220-240V | 1 | 12 |
| HIDPVC50/ICDM | HID-PV C 50 /I CDM 220-240V 50/60Hz | 50 | 220-240V | 1 | 12 |
| HIDPVC50/FPCDM | HID-PV C 50 /FP CDM 220-240V 50/60Hz | 50 | 220-240V | 1 | 12 |
| HIDPVC100/S CDM | HID-PV C 100/S CDM - flex and plug | 100 | 220-240V | 1 | 12 |
| HIDPVC100/I CDM | HID-PV C 100/I CDM - flex and plug | 100 | 220-240V | 1 | 12 |
| HIDPVC100/FP CDM | HID-PV C 100/FP CDM - flex and plug | 100 | 220-240V | 1 | 12 |
| HIDPVC150/S CDM | HID-PV C 150/S CDM - inbuilt application | 150 | 220-240V | 1 | 12 |
| HIDPVC150/ICDM | HID-PV C 150/I CDM - independent/hard wired | 150 | 220-240V | 1 | 12 |
| HIDPVC150/FPCDM | HID-PV C 150/FP CDM - flex and plug | 150 | 220-240V | 1 | 12 |
| HIDPVSTRAIN | HID-STRAIN RELIEF | NA | NA | 10 | 10 |

HID-PrimaVision Economy (Fixed output)

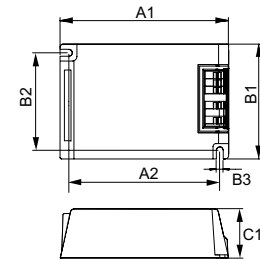
"I" TYPE



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Height C1 | Fixing Hole Diameter D1 |
|------------------|-----------|--------------------------------|----------|-----------|-------------------------|
| HIDPVm I | 190.0 | 154.0 | 43.3 | 30.0 | - |
| HIDPVC 35/70 I | 188.0 | 170.0 | 62.7 | 34.5 | 4.8 |
| HIDPVC 100/150 I | 223.9 | 206.0 | 82.7 | 34.2 | 4.8 |

Dimensions in mm

"S" TYPE



| Product ID | Length A1 | Fixing Hole Distance Length A2 | Width B1 | Fixing Hole Distance Width B1 | Height C1 | Fixing Hole Diameter D1 |
|------------------|-----------|--------------------------------|----------|-------------------------------|-----------|-------------------------|
| HIDPVm S | 97.3 | 88.3 | 43.3 | - | 30.5 | 4.2 |
| IDPVC 35/70 S | 109.6 | 98.5 | 74.4 | 63.7 | 32.2 | 4.9 |
| HIDPVC 100/150 S | 135.0 | - | 75.0 | - | 32.0 | 4.8 |

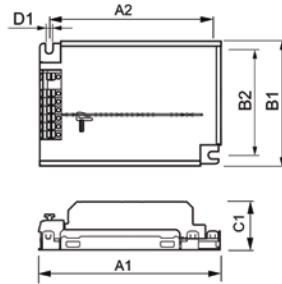
Dimensions in mm

HID PRIMAVISION FOR CDM LAMPS

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------------|--|-------------|----------|--------------------|------------|
| HIDPVE35/S CDM | HID-PV E 35/S CDM - inbuilt application | 35 | 220-240V | 12 | 12 |
| HIDPVE35/I CDM | HID-PV E 35/I CDM - Independent/hard wired | 35 | 220-240V | 12 | 12 |
| HIDPVE35/FP CDM | HID-PV E 35/FP CDM - Flex & Plug | 35 | 220-240V | 12 | 12 |
| HIDPVE70/S CDM | HID-PV E 70/S CDM - inbuilt application | 70 | 220-240V | 12 | 12 |
| HIDPVE70/I CDM | HID-PV E 70/I CDM - Independent/hard wired | 70 | 220-240V | 12 | 12 |
| HIDPVE70/FP CDM | HID-PV E 70/FP CDM - Flex & Plug | 70 | 220-240V | 12 | 12 |

HID AspiraVision

AspiraVision DALI Compact (70W) for CDM Elite Light Boost – The electronic gear with brains. Dim and boost Elite Light Boost lamps for energy saving and attraction lighting. SOFTSTART allows installation with fewer circuit breakers. Loop Through allows faster, cost-efficient installation.



| Product ID | A1 | A2 | B1 | B2 | C1 | D1 |
|--|-------|------|------|----|------|-----|
| HID-AV C DALI 70 /S CDM 220-240V 50/60Hz | 110.0 | 98.5 | 75.0 | - | 32.3 | 4.5 |

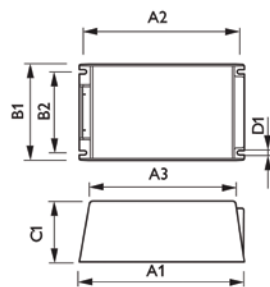
Dimensions in mm

HID ASPIRAVISION

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------------|--|-------------|----------|--------------------|------------|
| HIDAVC70/S CDM | HID-AV C 70/S CDM - in-built application | 70 | 220-240V | 12 | 12 |
| HIDAVC70/I CDM | HID-AV C 70/I CDM - independent/hard wired | 70 | 220-240V | 1 | 12 |
| HIDAVC70/FP CDM | HID-AV C 70/FP CDM - flex and plug | 70 | 220-240V | 1 | 12 |

HID PrimaVision Medium Wattage Elite Ballasts

HID-PrimaVision (Xtreme) for CDM Elite MW – Xtreme drivers for the highest reliability. Most efficient white-light system in the industry in its power range. Designed to minimise maintenance costs in outdoor lighting thanks to the 80,000-hour lifetime and integrated lightning protection. Same energy consumption and smooth driving of the lamp regardless of fluctuations in the mains voltage.



| Product ID | A1 | A2 | B1 | B2 | C1 | D1 |
|---------------------------------------|-------|-------|-------|-------|------|-----|
| HID-PV Xt 210 /S CDM 220-240V 50/60Hz | 170.0 | 156.0 | 101.0 | 81.5 | 59.0 | 5.0 |
| HID-PV 315 /S CDM 220-240V 50/60Hz | 215.0 | 204.5 | 128.5 | 111.5 | 60.0 | 4.2 |

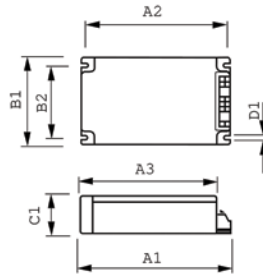
Dimensions in mm

HID PV MW ELITE BALLASTS

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------------|---------------------------------------|-------------|----------|--------------------|------------|
| HIDPVXT210/SCDM | HID-PV Xt 210 /S CDM 220-240V 50/60Hz | 210 | 220-240V | 12 | 12 |
| HIDPV315/SCDM | HID-PV 315 /S CDM 220-240V 50/60Hz | 315 | 220-240V | 12 | 12 |

HID PrimaVision for Mini White SON

PrimaVision SDW-TG (50W & 100W) for SDW-TG – High quality and robust performance. Optimal lamp performance thanks to minimal lamp power tolerance. Reduces colour differences between lamps and initial lumen spread. Performance is independent of mains voltage.



| Product ID | A1 | A2 | B1 | B2 | C1 | D1 |
|---------------------------------------|-------|-------|------|------|------|-----|
| HID-PV 50 /S SDW-TG 220-240V 50/60Hz | 150.0 | 134.0 | 90.0 | 70.0 | 38.0 | 4.5 |
| HID-PV 100 /S SDW-TG 220-240V 50/60Hz | 150.0 | 134.0 | 90.0 | 70.0 | 38.0 | 4.5 |

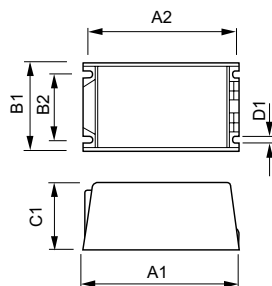
Dimensions in mm

HID PRIMAVISION FOR MINI WHITE SON

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-------------------|---------------------|-------------|----------|--------------------|------------|
| HIDPVC50SDWTG | HID-PV 50/S SDW-TG | 50 | 220-240V | 1 | 12 |
| HIDPVC100SDWTG | HID-PV 100/S SDW-TG | 100 | 220-240V | 1 | 12 |
| HID-STRAIN RELIEF | HID STRAIN RELIEF | N/A | N/A | 10 | 10 |

HID PrimaVision Xtreme for CPO

Compact, robust, outdoor, one-piece, electronic ballasts for CosmoPolis White (CPO-TW) lamps. Offering an energy-saving street and road light solution with extremely long life, and suitable for withstanding outdoor environments (storms, lightning strikes, etc.).



| Product ID | A1 | A2 | B1 | B2 | C1 | D1 |
|------------|-----|-------|----|------|----|----|
| HIDPV0 | 150 | 135.9 | 65 | 46.8 | 65 | 5 |

Dimensions in mm

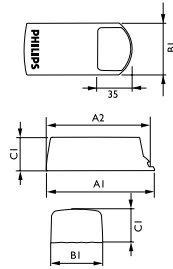
HID DYNAVISON DALI XTREME FOR CPO

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|-----------------|------------------------|-------------|----------|--------------------|------------|
| HIDPVXt45/SCPO | HID-PV Xt 45/S CPO-TW | 45 | 220-240V | 12 | 12 |
| HIDPVXt60/SCPO | HID-PV Xt 60/S CPO-TW | 60 | 220-240V | 12 | 12 |
| HIDPVXt90/SCPO | HID-PV Xt 90/S CPO-TW | 90 | 220-240V | 12 | 12 |
| HIDPVXt140/SCPO | HID-PV Xt 140/S CPO-TW | 140 | 220-240V | 12 | 12 |

ET-S Halogen Transformer

A high frequency electronic transformer for operation with 12 volt halogen lamps. The ET-Standard transformer is uniquely compact and lightweight. It is also dimmable with approved leading and trailing edge dimmers. A range of benefits include short-circuit protection in the event of lamp failure, temperature protection, constant output voltage, and operates at a whisper (30dB).

Wire cross section on mains and lamp sides of terminals is 0.5 to 2.5mm². Distance between lamp and transformer; minimum 20cm, maximum 2m. Distance from other transformers must be more than 25cm.



| Product ID | A1 | A2 | B1 | C1 |
|------------------|-----|-----|----|------|
| ET-S | 105 | 110 | 52 | 33.5 |
| Dimensions in mm | | | | |

ET-S HALOGEN TRANSFORMER

| Shortcode | Description | Wattage (W) | Voltage | Min Order Quantity | Carton Qty |
|----------------|--------------------------|-------------|----------|--------------------|------------|
| ETS60VA220240V | ET-S 60 220-240V 20-60VA | 20-150 | 220-240V | 1 | 50 |





Technical Data





The principles of LED technology

The basis for light generation inside a Light Emitting Diode (LED), a solid-state semiconductor, is the conversion of electrical energy directly into light.

On its most basic level this can be seen as an electron that moves from one material into another while losing an amount of energy. Due to the law of conservation of energy, this loss of energy needs to be converted and, inside a LED, this energy is converted into radiation energy composed of light in the visible part of the spectrum, and a bit of infrared radiation dissipated as heat.

The LED is comprised of two semiconductor regions, a positive electrically charged or p-region and a negative electrically charged or n-region, see Diagram 1. In the p-region there is a shortage of electrons and in the n-region a surplus of electrons. When voltage is applied across these two regions, current begins to flow and electrons move across the p-n junction, from the n-region into the p-region. The process of an electron moving through the p-n junction releases energy. The dispersion of this energy produces photons with visible wavelengths. The higher the energy released, the shorter the wavelength becomes. Low-energy photons will emit in the infrared part of the spectrum, and as the energy increases, the colour of the light will change from deep red, via yellow, green, cyan and blue to the ultra-violet part of the spectrum – in fact it follows the colours of the rainbow.

Diagram 1. LED composition with the electrically charged p- and n-regions and the p-n junction emitting light.

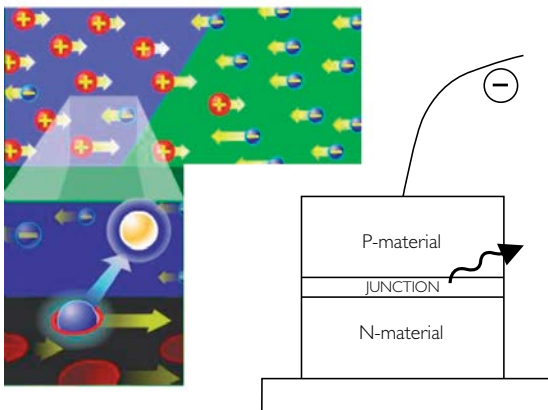
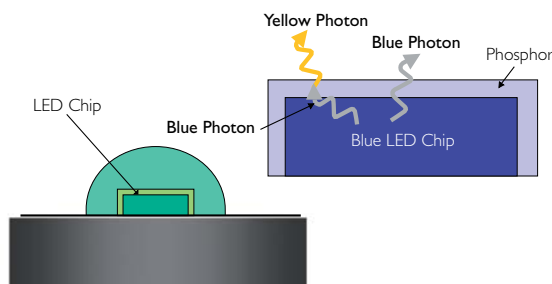


Diagram 2. White LED, the principle of white light generation.

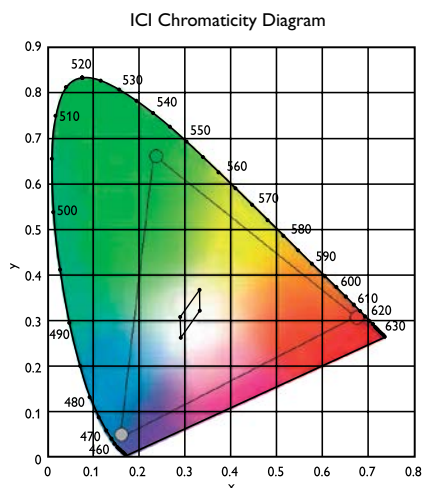


White light and RGB (red, green and blue)

A white LED consists of a blue LED chip and a yellow phosphor coating, see Diagram 2. The blue photons generated in the semiconductor chip can either pass the phosphor layer unaffected, or be converted into yellow photons. These two colours – blue and yellow – combine to produce white light.

It is also possible to generate white light with the aid of a red, green and blue LED. Such LED array systems are called RGB systems. Normally the RGB systems are used to make different colour effects. With a RGB system all colours of light within the colour triangle can be produced.

Graph. Colour triangle for a RGB system; all colours within the triangle can be reproduced.





Characteristics and benefits

On this page you will find an overview of the characteristics and benefits of LEDs. In the various indoor and outdoor applications different advantages will be important. Architectural applications will use the vivid colours and dynamic colour control, whereas the traffic signal market is focused on maximising energy savings and reducing maintenance costs to practically zero.

In general:

- More energy-efficient than incandescent and halogen lamps
- Much longer life, up to 50,000 hours at 70 percent of lumen maintenance
- Reduced maintenance cost
- No unwanted IR or UV radiation in the beam of light, less risk of fading of colour pigments and textile
- Highly efficient low-cost plastic optics can be used

Architecture/design:

- Design flexibility, hidden compact light sources
- Vivid saturated colours without the use of additional filters
- Directed light for increased system efficacy
- Robust, vibration-proof, solid-state lighting
- Less light pollution due to precise optical control

Unique LED advantages:

- Dynamic colour control, white point adjustable
- Fully dimmable without colour variation
- Instant switch-on at full colour and full lighting level
- No transmission loss due to colour filters
- Install and forget for a long time

Environment:

- No hazardous metals e.g. mercury in the light source
- Safety and low temperature:
- Low voltage DC operation
- Highly efficient in cold environment
- Cold start capability down to -40°C
- Sealed for life waterproof luminaires

Value chain

The definition of levels of integration describes the road from LED chip to luminaire, with increasing complexity and value. Philips undertakes business activities at all levels of the value chain.

Level 0. LED chip

Semiconductor chips are the basis for every LED and these are grown in complex wafer production equipment. The wavelength of the LED is defined according to the manufacturing process, the parameters and the tolerance.



The principles of LED technology

Level 1. LED component

Packaging is the next step. Here the thermal and optical properties are determined and the chip is connected to its package by means of bond wires for external connections.

Level 2. LED array

A miniature printed circuit board is used to connect one or more LEDs, possibly together with driver electronics, and acts as a thermal interface between LEDs and heat sink.

Level 3. LED module

A LED module combines heat sink, optics and separate driver in one module, ready to be installed in a luminaire.

A mono-colour traffic light source is an example of level 3. Three of these modules will be combined in a level-4 traffic signal head.

Level 4. LED luminaire

A LED luminaire can be connected directly to the outside, mechanically and electrically. It houses, supplies power to and protects the LED array(s) from the environment while maintaining optimal operating conditions.

Philips LEDline is an example of a level-4 product.

| | | | | |
|---|---|---|---|--|
|  |  |  |  |  |
| Level 0 | Level 1 | Level 2 | Level 3 | Level 4 |
| LED-Chip | LED or lamp | LED's on PCB | LED module with optics and driver | Luminaire |

Table. Survey of levels of integration and LED products.

LED lighting system

A LED lighting system comprises several components like a power supply, controller, control interface and luminaire/LED arrays/optics. In many cases one or more components are combined in one product for ease of installation. In other cases there might be a need for more flexibility in terms of system configuration and control. e.g. a power supply or control interface may be shared by a group of luminaires. Every single component is selected to fit the application demands.

Lighting controls

The revolution of LED technology for lighting creates new possibilities in the application of lighting. In many applications the dynamic character of LED enables a lighting solution to create a unique experience. By using RGB colours or variation in colour temperature, all sorts of effects are made possible and can be specified for a particular lighting design or application, both indoor and outdoor. To enable these dynamic lighting solutions there is a need for lighting control systems that create the right experience for the customer. Philips provides a range of smart scene-setting lighting controllers that offers a reliable solution for any project, from simple colour selection at the push of a button or the turn of a wheel to fully automated, pre-programmed light control and/or multimedia integration.

Colour characteristics of lamps

Lamps do not all emit light of the same colour. There is, for example, a striking difference between the pronounced amber light from standard sodium lamps and the white light from most other lamps. Even then, one white light is not the same as another. To select the right light source for the colour characteristics required, two separate parameters have to be considered, i.e. the colour temperature of the emitted light and its colour rendering.

Colour temperature

Given that the colour of the light has an important influence on the colour impression of the area, the colour temperature of the light source plays an essential role. To enable an objective comparison of the colour impressions from various sources, subjective terms such as the popular words 'cool' and 'warm' are inadequate. A precise scale is required and given by the term 'correlated colour temperature'; the colour gradation of the light is compared with the light emitted by an intensely heated iron bar of which the temperature is known. In this way, the light colour can be specified by a value in kelvin (K). A low colour temperature represents warm, yellow, orange or red light and a high colour temperature cool, blue or violet light.

Four categories, as a practical guideline, are:

2000 – 3000 K warm/cosy

The colour from incandescent lamps, (compact) fluorescent lamps in the colours 827 and 927 and the SDW-T White SON lamp. Generally used for intimate and cosy environments where the emphasis is on a peaceful relaxing ambience.

3000 – 4000 K warm/neutral

The colour from halogen lamps, colour 830 and 930 (compact) fluorescent lamps and MASTERColour 830 lamps. Used in places where people are active, requiring a welcoming comfortable ambience.

4000 – 5000 K neutral/cool

The light colour from 840 and 940 fluorescent lamps as well as MASTERColour 942 and MHN metal halide lamps. Usually applied in commercial areas and offices where a look of cool efficiency is desired.

5000 K and above daylight and cool daylight

The light colour that best matches natural daylight, such as fluorescent colours 850, 865, 950 and 965.

Colour rendering

The perception of surface colours, the colour rendering of the light, depends on the colour content of the incident light. The light emitted by a light source is composed of a mixture of colours, all in different intensities. A change in the colour mixture and intensity yields a different colour rendering.

Daylight incandescent lamps have fully natural colour rendering properties. The same is true for halogen lamps. The reason for this is the continuous spectrum of the sources, which is typical for filament lamps.

Most gas discharge sources, however, have an interrupted or line spectrum. This has an influence on the quality of their colour rendering properties, which vary from very poor, with SOX low-pressure sodium gas discharge lamps, to excellent, with the colour 90 De Luxe series fluorescent and MASTERColour 942 lamps.

When selecting a particular lamp type, a clear understanding of the colour rendering properties is essential.

A fair indication is given by the colour rendering index (CRI), which is a standardised scale with 100 as the maximum value. Colours are best shown under a light source with the highest colour rendering index. Incidentally, it is only worthwhile to compare CRI values of lamps of similar colour temperature.

In practice, three colour rendering categories are normally found

CRI between Ra 90 and 100.

- Excellent colour rendering properties.
- Applications are mainly those where correct colour appraisal is a critical task.

CRI between Ra 80 and 90.

- Good colour rendering properties.
- Applications in areas where critical colour appraisal is not the primary consideration but where good rendition of colours is essential.

CRI below Ra 80.

- Moderate to poor colour rendering properties.
- Applications in areas where the quality of colour rendering is of minor importance.

The choice in favour of a particular colour rendering class does, of course, depend on the demands that an application makes on a lamp.

For example, a CRI of Ra 60 is inadequate for shop lighting, but is qualified as good for functional road lighting.

| Light colour | Colour temp. in kelvin | Type of lamp or lamp colour |
|--------------------|------------------------------|--|
| Cool Daylight | 17000 8000 6500 | 452 451 865, 965 |
| Daylight | 6000 | |
| Cool White | 5000 4500 4200 | 850, 950 HPI (-T) Plus 942, HPL-N, MHN |
| Neutral White | 4000 3500 3400 | 840, 940 HPL Comfort |
| 'Crisp' Warm White | 3000 2900 2800 2700 | Halogen 12V, 830, 930 Halogen Plusline Halogen PAR Incandescent, 827, 927 |
| 'Cosy' Warm White | 2500 2150 | SDW-T SON Comfort |
| Very Warm White | 2000 | SON PIA Plus |

| Indoor applications | CRI | Type of lamp or lamp colour |
|---------------------|----------------------------|---|
| Excellent | 100 92 90 | Incandescent, halogen 12V, 230V 927, 930, 940, 950, 965 CDM 942 |
| Good | 83 82 80 | SDW-T 451, 452, 827, 830, 840, 850, 865 CDM 830, SDW-T, MHN, QL |
| Moderate | 75 70 69 65 60 | 54 25 HPI (-T) Plus SON Comfort 33 |
| Insufficient | 55 50 | 35, HPL Comfort 29 |
| Poor | 45 40 25 | HPL-N SON Plus SON |

Areas of application

Correct light impressions and correct rendering of colours assists us in recognising our surroundings.

The colour climate of an artificially-lit space is determined by light colour temperature and colour rendering.

Room furnishings of wood and fabrics in warm colours require warm lighting in the colours 827 or 927.

For pleasing light the colours 830 and 930 are most suitable for many applications. The more business-like the interiors are, the cooler the light can be. Furniture using chromium, glass and marble, or in black and white, is emphasised by the neutral light colours 840 and 940. Colours 865 and 965 are best used in environments where there is a high daylight content.

For (compact) fluorescent lamps it is most economical to choose the colours 830 and 840 as they produce the highest light output. Colours 927, 930, 940 and 950, on the other hand, give the best colour rendering.

Proper use of fluorescent lamps

| Philips light colours | Special | | | Neutral white | | Cool daylight | | |
|-----------------------------|---------|-----|-----|---------------|-----|---------------|-----|-----|
| | 79 | 830 | 930 | 840 | 940 | 950 | 865 | 965 |
| Sales areas | | | | | | | | |
| Groceries | | | | | | | | |
| Meat | | | | | | | | |
| Textiles, leather | | | | | | | | |
| Furniture, carpets | | | | | | | | |
| Sports, games, stationery | | | | | | | | |
| Photo, clocks and jewellery | | | | | | | | |
| Cosmetics, hairdressing | | | | | | | | |
| Flowers | | | | | | | | |
| Bookshops | | | | | | | | |
| Industry | | | | | | | | |
| Workshops | | | | | | | | |
| Electro mechanical assembly | | | | | | | | |
| Textile manufacture | | | | | | | | |
| Printing, graphical tasks | | | | | | | | |
| Colour testing | | | | | | | | |
| Paintshops | | | | | | | | |
| Stores | | | | | | | | |
| Plant nurseries | | | | | | | | |
| Offices, schools | | | | | | | | |
| Office areas | | | | | | | | |
| Conference rooms | | | | | | | | |
| Teaching areas | | | | | | | | |
| Lobbies, corridors | | | | | | | | |
| Others | | | | | | | | |
| Dwellings | | | | | | | | |
| Restaurants | | | | | | | | |
| Museums | | | | | | | | |
| Sport, multipurpose areas | | | | | | | | |
| Hospital bedrooms | | | | | | | | |
| Treatment rooms | | | | | | | | |

| | | | |
|--|------------------|--|---------------|
| | Optimal solution | | Also suitable |
|--|------------------|--|---------------|

Protection against ingress of solid objects, dust & moisture

The Ingress Protection system (IP) EN 60529, 1991 defines various degrees of protection against the ingress of foreign bodies, dust and moisture. The term 'foreign bodies' includes things like fingers and tools coming into contact with the electrical live parts of the product.

Both safety aspects (contact with live parts) and harmful effects on the function of the luminaire are defined. The exact testing method for luminaires for each IP classification is described in the standard EN 60598.

Some testing methods from EN 60529 were found to be inappropriate for luminaires and it must be noted that the specific conditions in an application may differ from the conditions during testing.

The designation to indicate the degree of protection consists of the characteristic letters IP followed by 2 digits indicating conformity with the conditions stated in the two tables. All Philips luminaires fulfil the minimum classification: IP20 (protected against finger contact with live parts), however a selection of luminaires, especially those for industrial and outdoor (road) applications, meet a higher IP classification. It is important to realise that the specification and safety of luminaires are only secured if the necessary maintenance is carried out according to the instructions of the manufacturer within the time schedules indicated.

Protection against ingress of dust, solid objects and moisture

| First number: Degree of protection against contact with external elements | | | Second number: Degree of protection against ingress of moisture | | |
|---|-----------------------------|---|---|---|--|
| First number | Description | Explanation | Second number | Description | Explanation |
| 0 | Non-protected | Not protected | 0 | Non-protected | Not protected against moisture |
| 1 | Hand-protected | Protected against solid objects exceeding 50mm in diameter | 1 | Drip-proof against vertical water drops | Water drips falling vertically shall have no harmful effect |
| 2 | Finger-protected | Protected against finger contact with live parts; and against solid objects exceeding 12mm in diameter | 2 | Drip-proof when tilted at angles of up to 15° | Water drips shall have no harmful effect |
| 3 | Tool-protected | Protected against contact with live parts by tools, wire or similar objects over 2.5mm thick; and protection against penetration of solid objects exceeding 2.5mm in diameter | 3 | Rain/spray-proof | Water falling at an angle of up to 60° shall have no harmful effect |
| 4 | Wire-protected | Protected against contact with live parts by tools, wire or similar objects over 1mm thick; protection against penetration of solid objects exceeding 1mm in diameter | 4 | Splash-proof | Splashing water from any direction shall have no harmful effect |
| 5 | Dust accumulation-protected | Complete protection against contact with live parts and against harmful accumulation of dust; some dust may penetrate but not to the extent that operation is impaired | 5 | Jet-proof | Water projected by a nozzle from any direction shall have no harmful effect. (Nozzle diameter 6.3mm, pressure 30kPa) |
| 6 | Dust penetration-protected | Complete protection against contact with live parts and against penetration of dust | 6 | Jet-proof | Water projected by a nozzle from any direction shall have no harmful effect. (Nozzle diameter 12.5mm, pressure 100kPa) |
| | | | 7 | Watertight | Watertight; temporary immersion in water under specified conditions of pressure and time possible without ingress of water in harmful quantities |
| | | | 8 | Pressure watertight | Pressure watertight; continuous submersion in water under specified conditions of pressure and time without ingress of water in harmful quantities |

Optics to suit all requirements

The optic in a luminaire is made up of the reflector and louvres, diffuser or refractor system that controls the light direction and beam pattern of the luminaire. It is an essential control device. It is therefore not surprising that Philips offers a wide variety of optics, each designed to perform a specific function.

Which optic is best for the practical situation in question?

The function of the area to be illuminated and the task to be performed usually determine the type of luminaire and optic you need, while the ceiling system often determines the dimensions and the way the luminaire is to be mounted. The luminaire-optic combination must fulfil the lighting requirements defined for each specific area and task. In addition, other requirements, such as image, efficiency and aesthetics, will influence the decision. Light distribution, direct and reflected glare control and efficiency are parameters that influence the performance of the lighting installation. These elements are described in the European standard EN 12464-1 (Light and lighting - Lighting of workplaces).

The following optic guide is comprised of optics for fluorescent luminaires with TL5 and TL-D lamps, grouped in the different optic dimensions (Micro, Mini, Midi and Maxi), for downlights with compact fluorescent lamps and for projectors with compact HID lamps.

The overview offers an indication of the optic description and performance. As the optical performance may vary with lamp type and number of lamps, please consult the photometric database via www.lightingsoftware.philips.com in conjunction with calculation programmes like DIALUX and RELUX.

Micro optics – New generation optics for TL5

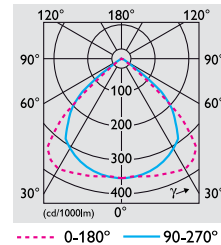
Micro optics are the latest state-of-the-art in optical design and available for TL5 lamps only. The very slim-line optics, with an opening of only 55mm, are integrated in high-end luminaires. The aluminium optics with their curved underside enhance the aesthetic appearance and have an improved efficiency.

Micro optics are applied in innovative luminaire families like Arano, Celino and Savio, in slim-line and square luminaires.

C8/D8

Performer micro optic made of high-quality standard aluminium, reflection $\geq 83\%$, available in high gloss (C) and semi-high gloss (D). Delta-shaped light distribution and all-round glare control.

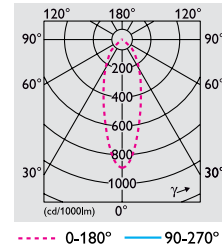
| | |
|------------------|-----------------------|
| LOR | up to 82% |
| UGR _R | ≤ 19 |
| L | $< 1000\text{cd/m}^2$ |



36

Medium beam rotationally symmetric optic for downlighting and accent lighting. Made of anodised aluminium with 99% reflection. Intensity varies greatly with lamp type and power. For accent and general lighting in areas where high-quality light sources are required.

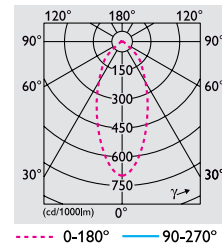
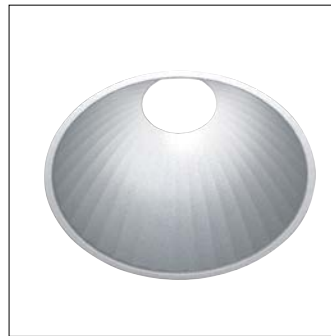
| | |
|-----------|-------------------|
| LOR | up to 60% |
| I_{max} | approx. 1 kcd/klm |



60

Wide-beam rotationally symmetric optic for down lighting. Made of anodised aluminium with 99% reflection. Intensity varies greatly with lamp type and power. For general lighting in retail areas, museums, hotels and lobby areas, in offices and public buildings.

| | |
|-----------|---------------------|
| LOR | up to 60% |
| I_{max} | approx. .75 kcd/klm |

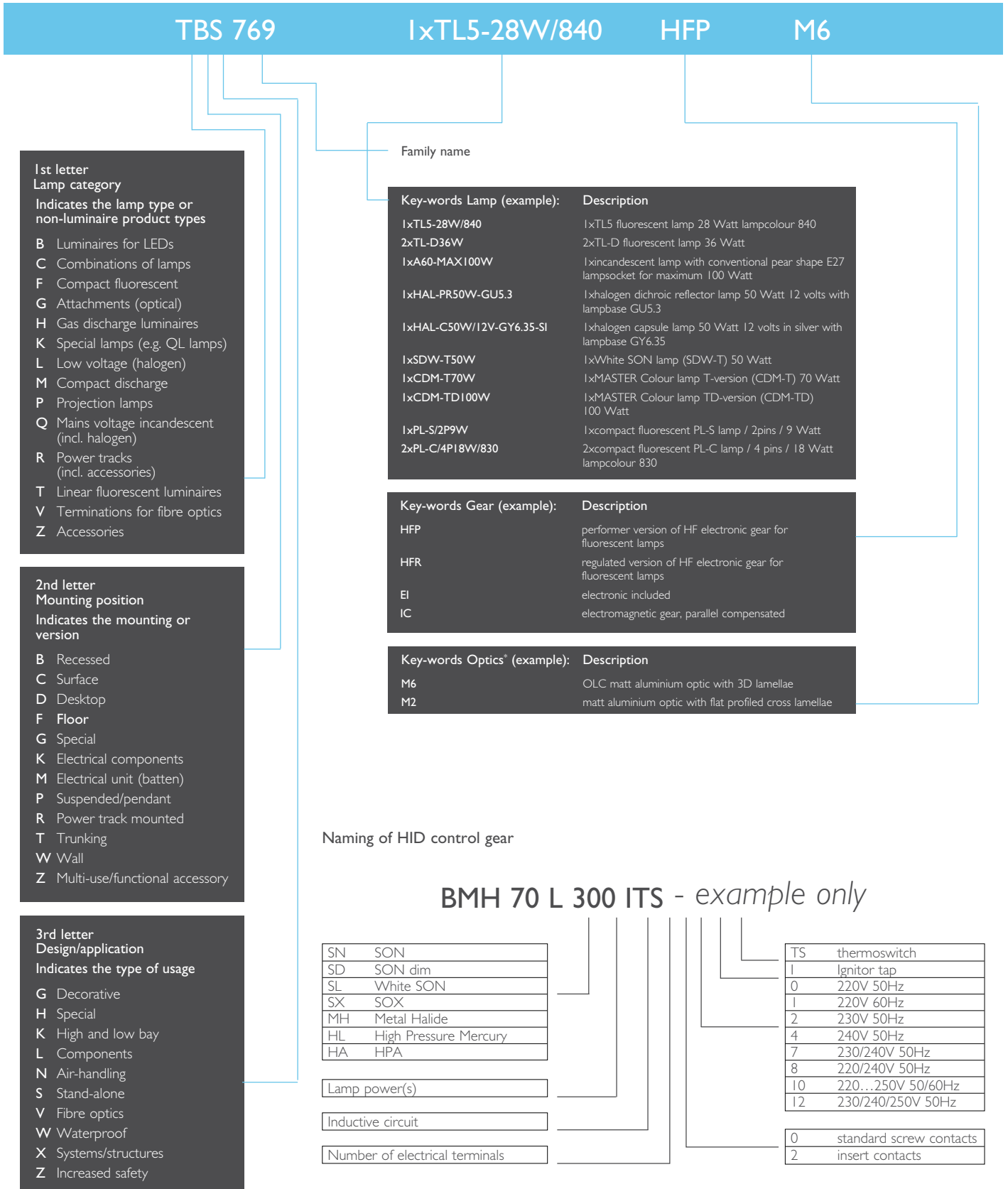


Explanation of type numbers – example only

Luminaires

The method used for type numbers is explained in the following. This explanation covers the major part of the type numbers.

For the precise choice of luminaire for a particular lighting assignment it is advisable to contact a representative of Philips Lighting.



The next three digits in the designation indicate the family of luminaires.

Lamp Characteristics

Efficacy of fluorescent lamp systems – typical examples:

| Lamp type | | Conventional gear | Electronic gear HFR, HFP, EBS or EBE |
|------------------------------|---|---|--|
| TL-D 18 W 4-lamp system | Lamp Ballast Total Lamp flux System efficacy Energy saving potential | 4 x 18 W 14 W 86 W 4 x 1350 lumen 63 lumen/Watt | 4 x 16 W 10 W 74 W 4 x 1400 lumen 76 lumen/Watt 16% |
| TL-D 36 W 1-lamp system | Lamp Ballast Total Lamp flux System efficacy Energy saving potential | 36 W 8 W 44 W 3350 lumen 76 lumen/Watt | 32 W 4 W 36 W 3200 lumen 89 lumen/Watt 22% |
| TL-D 58 W 1-lamp system | Lamp Ballast Total Lamp flux System efficacy Energy saving potential | 58 W 11 W 69 W 5200 lumen 75 lumen/Watt | 50 W 5 W 55 W 5000 lumen 89 lumen/Watt 26% |
| TL5 HE 14 W 4-lamp system | Lamp Ballast Total Lamp flux System efficacy | Not available | 4 x 14 W 6 W 62 W 4 x 1350 lumen 87 lumen/Watt |
| TL5 HE 28 W 1-lamp system | Lamp Ballast Total Lamp flux System efficacy | Not available | 28 W 4 W 32 W 2900 lumen 91 lumen/Watt |
| TL5 HO 49 W 1-lamp system | Lamp Ballast Total Lamp flux System efficacy | Not available | 49 W 5 W 54 W 4900 lumen 91 lumen/Watt |

Colour temperature and colour rendering

Correct light colours and correct reproduction of colours assists us in recognising our surroundings. The colour climate of an artificially-lit space is determined by the light colour and the colour rendering. Room furnishings of wood and fabrics in warm or pastel colours require warm lighting in the colour /827 or /927.

The more business-like the interior is, the cooler the light can be. Furniture using chromium, glass and marble, or in black and white, is emphasised by the cool light colours /840 and /940.

Colour Rendering (Ra)

Colour rendering is the ability of a light source to reproduce colour. The light source is put over an 8-colour slide test, and the light source's ability to reproduce colour is tested. From this, it is rated on the CRI (Colour Rendering Index). E.g. The '8' in 840 indicates a colour rendering between 80-90.



Moderate:
60 < Ra < 80

Good:
80 ≤ Ra < 90

Excellent:
Ra ≥ 90

Colour Temperature (K)

Colour temperature refers to the colour appearance of a light source. It is measured in degrees Kelvin (K). E.g. The '40' in 840 indicates a colour temperature of 4000K.



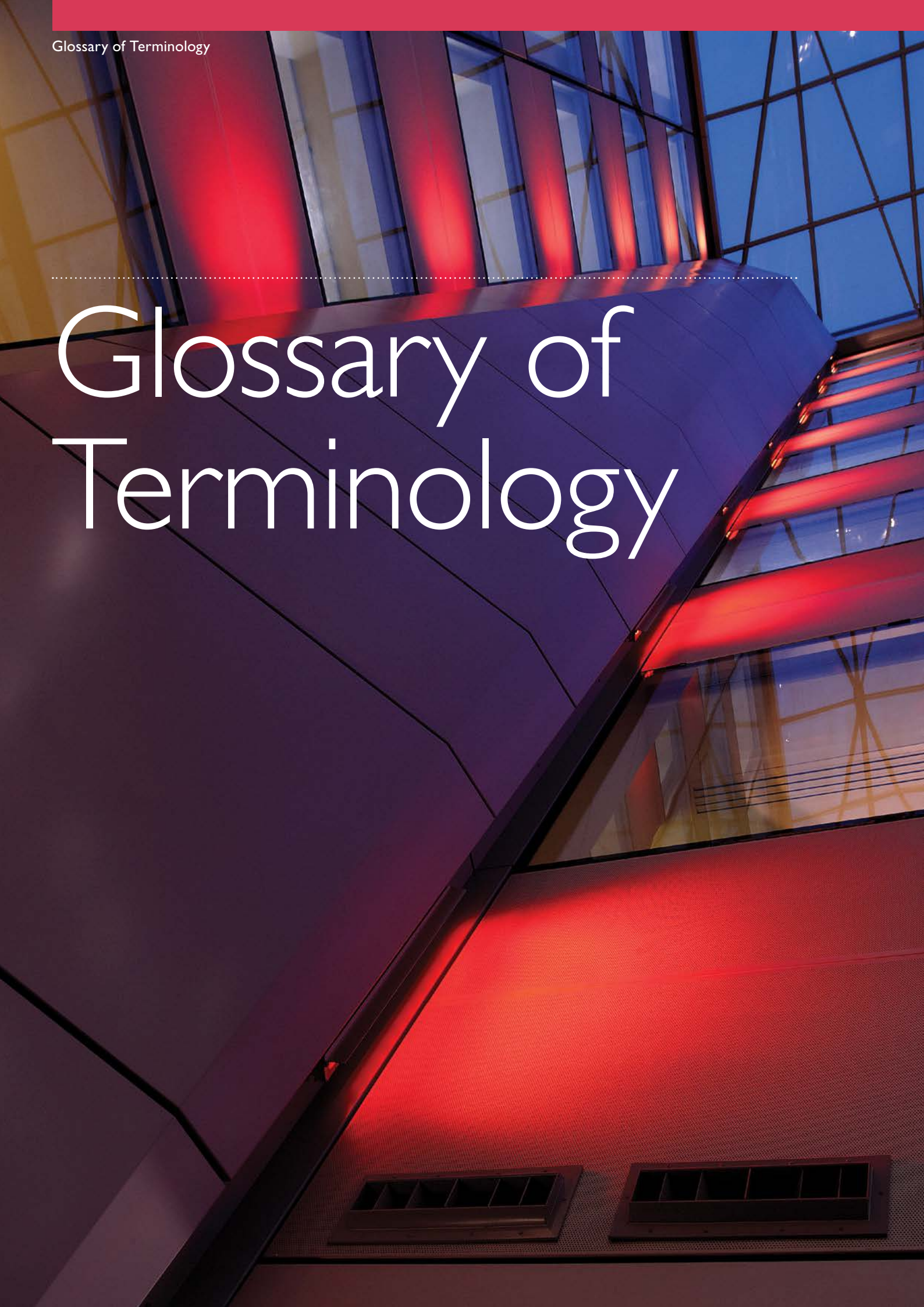
Warm

Cool





Glossary of Terminology



Average illuminance

Illuminance averaged over a specified surface.

Unit: lux (lx) = lm/m²

Symbol: E_{av}

Ballast

Electrical device used with discharge lamps for stabilising the current in the discharge.

Beam spread

Angle in the plane through the beam axis over which the luminous intensity drops to a stated percentage (e.g. 50%) of its peak intensity.

Brightness

Attribute of visual sensation according to which an area appears to emit more or less light. Brightness according to the definition is also an attribute of colour.

Candela

The standard unit of light intensity, abbreviated to "cd", which is one lumen per steradian.

CDM

See MASTERColour CDM.

Colour appearance

General expression for the colour impression received when looking at a light source.

Colour change

The facility to change the colour temperature of a lighting installation makes it possible to create a more comfortable working environment or to introduce dynamic lighting effects.

Colour rendering

Ability of a light source to render colours naturally, without distorting the hues seen under a full spectrum radiator (like daylight or incandescent lamps). The colour rendering index (CRI) ranges from 0 to 100.

Colour rendering index CRI

See Colour rendering.

Symbol: R_a

Colour temperature

Temperature in kelvin of a full spectrum radiator closest to the colour appearance of a light source at the same brightness.

Unit: kelvin, K

Symbol: T_c

Contrast C (between two parts of a visual field)

The relevant luminance difference between two parts in accordance with the formula:

$$C = \frac{L1 - L2}{L2}$$

Where the size of the two parts differs greatly and where:

L1 = luminance of the smallest part (object)

L2 = luminance of the largest part (background).

DALI

Digital Addressable Lighting Interface, a standardised communication interface to regulate lighting levels and to switch electronic HFD ballasts on and off.

Daylight linking

Using natural light saves energy and is beneficial to individual users. Daylight linking is a technique that regulates the light output of luminaires in accordance with daylight conditions, thus maintaining a constant level of indoor lighting and ensuring comfort at all times.

Diffuser

Optical element used to mix light rays to improve uniformity or reduce glare. An opal cover is an example of a diffuser.

Direct lighting

Lighting by means of luminaires with a light distribution such that 90 – 100% of the emitted luminous flux reaches the working plane directly, assuming that this plane is unbounded.

Disability glare

Glare that impairs vision.

Discharge lamp

Lamp in which the light is produced, directly or indirectly, by an electric discharge through a gas, a metal vapour or a mixture of several gases and vapours.

Discomfort glare

Glare that causes discomfort without necessarily impairing vision.

Dust-proof luminaire

Luminaire constructed so that dust of a specified nature and fineness cannot enter when it is used in a dust-laden atmosphere.

Emergency lighting

Lighting provided for use when the supply to the normal lighting fails.

Escape lighting

That part of emergency lighting provided to ensure that an escape route can be effectively identified and used in the case of failure of the normal lighting system.

Flashed area

The light of a luminaire in a given direction. The area of the orthogonal projection of the luminous surface on a plane perpendicular to the specified direction.

Fresnel lens or reflector

A Fresnel lens or reflector is an optical element of reduced height. By means of discrete steps, the basic shape is flattened yet the optical characteristics are retained.

Glare

Condition of vision in which there is discomfort or a reduction in the ability to see significant objects, or both, due to an unsuitable distribution or range of luminance or to extreme contrast in space or time.

Halogen lamp

Incandescent lamp in which the inclusion of halogens in the gas filling and a high-temperature quartz envelope promote the tungsten halogen cycle, permitting a higher filament temperature. The result is a higher colour temperature and a significantly extended life.

Halogen HV

"High voltage" 230 - 240V halogen lamp, which does not require a ballast or a transformer.

Halogen LV

"Low voltage" 6V, 12V or 24V halogen lamp. An electronic or electromagnetic transformer is required to operate low-voltage halogen lamps and is often integrated into the luminaire.

HFR-DALI

Electronic regulating DALI ballast for various fluorescent lamps. With this new-style electronic ballast standard push-buttons can be used to dim the light output down to 3%. The lamp can also be switched on or off using the push-button control.

Ballast functions according to the DALI protocol.

HFP PERFORMER

Electronic ballast for various fluorescent lamp types with warm-start principle. See also 'Specification data luminaires'.

HFR 1-10V

Electronic regulating ballast for various fluorescent lamp types by which light dimming is possible. The main ranges of HFR ballasts allow step-less dimming down to 3%. See also 'Specification data luminaires'.

Horizontal illuminance (E_{hor})

Illuminance incident on the horizontal surface.

Unit: lux (lx) = lm/m²

Symbol: E_{hor}

HPI Plus lamp

Metal-halide high-intensity discharge lamp combining high luminous efficacy with white light of moderate colour rendering. Main indoor applications are big industrial halls and lighting of discount stores, hyper/supermarkets and DIY shops. HPI Plus lamps are usually applied in high-bay luminaires and floodlights.

Illuminance

The luminous flux density at the surface being lit. The illuminance in the full summer sun is approx. 100,000 lux. Recommended illuminances for work places range from 200 lux for rough work to 2000 lux for detailed or critical work.

Unit: lux (lx) = lm/m²

Symbol: E

Incandescent lamp

Lamp in which light is produced by means of an element heated to incandescence by the passage of an electric current.

Indirect lighting

Lighting by means of luminaires with a light distribution such that not more than 10 per cent of the emitted luminous flux reaches the working plane directly, assuming that this plane is unbounded.

Induction lighting refractor

Optical element used to concentrate light rays to focus or improve the direction of light. A prismatic cover is an example of a refractor.

Infrared remote control

In offices and meeting rooms where the lighting requirement changes frequently, wireless infrared control offers the flexibility to set the lighting and change it at any time.

Isocandela curve (diagram)

Curve traced on an imaginary sphere with the source at its centre and joining all adjacent points corresponding to those directions in which the luminous intensity is the same, or a plane projection of this curve.

Isolux curve (diagram)

Locus of points on a surface where the illuminance has the same value.

Jet-proof luminaire

Constructed to withstand a direct jet of water from any direction.

LED

Light Emitting Diode used as a light source. Solid-state semiconductor device that converts electrical energy directly into light of a specific colour or white light.

Light output ratio (LOR)

Ratio of the total light emitted by a luminaire to the total light output of the lamp(s) it contains measured at standard operating conditions.

Low-pressure sodium lamp

Sodium vapour lamp in which the partial pressure of the vapour during operation does not exceed 5 Pa – for example: a SOX lamp.

Lumen depreciation

The decline in the light output of a light source during its lifetime.

Luminaire

Appliance that distributes, filters or transforms the light given by a light source (LED or lamp), and which contains all the necessary elements for fixing and protecting the light source(s) and facilitates their power supply and operating conditions.

Luminance

The light intensity per square metre of apparent area of the light source, luminaire or illuminated surface. Where surfaces are lit, the luminance depends upon both lighting level and reflection characteristics of the luminous surface.

Unit: cd/m²

Symbol: L

Luminous efficacy

The quantity of light that a light source emits per unit of electrical energy consumed. Notice that the luminous efficacy can be specified for a light source or for a lighting system (lamp and ballast).

The luminous efficacy of a system is lower than that of the light source.

Unit: lm/W

Luminous flux

The total light output emitted by a light source. Also the total light falling on a surface. The light output of a light source is measured in lumen.

Unit: lumen

Symbol: ϕ

Luminous intensity

The luminous flux in a given direction, e.g. from a floodlight or projector.

Unit: candela (cd) = one lumen per steradian

Symbol: I

Luminous intensity distribution diagram (table)

Luminous intensity shown in the form of a polar diagram, cartesian diagram or table, in terms of candelas per 1,000 lumens of lamp flux.

The diagram (table) for non-symmetrical light distributions gives the light distribution of a luminaire in at least two planes:

1. In a vertical plane through the longitudinal axis of the luminaire,
2. In a plane at right angles to that axis.

Note: The luminous intensity diagram (table) can be used:

- a. To provide a rough idea of the light distribution of the luminaire.
- b. For the calculation of illuminance values at a point.
- c. For the calculation of the luminance distribution of the luminaire.

Lux

The standard unit of illuminance of a surface being lit. One lux equals one lumen per square metre.

Maintained emergency lighting

Emergency lighting where the lamps are operated from the normal supply during standard conditions. In an emergency situation the emergency lamp (usually one lamp in luminaires of two or more lamps) remains in operation.

Maintained illuminance (luminance)

Value below which the average illuminance on the specified surface is not allowed to fall. The maintained illuminance is specified at the end of the maintenance cycle, taking into consideration the maintenance factor.

It is one of the main specification elements for the lighting designer. In the various standards the maintained illuminance is specified for various activities.

Unit: lux

Symbol: E_m, L_m

Maintenance factor

Correction factor used in lighting design to compensate for the rate of lumen depreciation, caused by lamp ageing (lumen depreciation and lamp failure) and dirt accumulation (luminaire and environment).

It determines the maintenance cycle needed to ensure that illuminance does not fall below the maintained value.

MASTERColour CDM lamp

Series of metal-halide discharge lamps with excellent colour rendering and a warm or neutral colour impression. MASTERColour lamps, also available as reflector lamps, are applied in projectors and downlights for shop and office applications.

Mercury lamp

This High-intensity discharge lamp is used in industry and large public spaces. Higher quality light characteristics are obtained by applying metal-halide lamps.

Metal-halide lamp

Single or double-ended discharge lamp for use in industry, public spaces and shops. Metal-halide lamps combine a natural white colour with a pleasant light and a high luminous intensity.

Movement detection

Sensing of occupancy by movement detection ensures lights are activated only when needed and enables the lighting in a specific area to be controlled.

Non-maintained emergency lighting

Emergency lighting where the emergency lighting lamps come into operation only when the power supply to normal lighting fails.

Obtrusive light

Spill light which because of quantitative, directional and spectral attributes in a given context, gives rise to annoyance, discomfort, distraction or a reduction in the ability to see essential information.

OLC

Omnidirectional Lighting Control, a Philips patented series of optics for TL5 and TL-D lamps offering optimal lighting efficiency in combination with excellent glare and luminance control all around the luminaire.

Optic

A device that changes the direction of a beam of light, usually by reflection, diffusion or refraction by a lens. The optic may include louvres for reduction of glare.

PL lamp

Single-ended compact fluorescent lamp in which the discharge tube is folded into two, four or six limbs. PL lamps are characterised by unusually high light output for their length. They are applied in compact luminaires for professional and domestic use. Also available with integrated ballast.

Power factor

Ratio of the circuit power in watts over the product of the root-mean-square values of voltage and current. For sinusoidal waveforms, it is equal to the cosine of the angle of phase difference between voltage and current. For electronic ballasts the power factor is 0.95 so that no additional phase compensation is required.

Refractor

Optical element used to concentrate light rays to focus or improve the direction of light. A prismatic cover is an example of a refractor.

RGB

Red, green and blue, used to specify the colours of a light source.

SDW-T

White SON or SDW-T lamps offer a high luminous efficacy in combination with warm-white light. The colour rendering is excellent. SDW-T lamps are applied in shops and public spaces where the atmosphere should be warm and cosy.

Sky glow

The brightening of the night sky that results from the reflection of radiation (visible and non-visible), scattered from the constituents of the atmosphere (gas molecules, aerosols and particulate matter) in the direction of observation. It comprises two separate components as follows:

- Natural sky glow: That part of the sky glow which is attributable to radiation from celestial sources and luminescent processes in the earth's upper atmosphere.
- Man-made sky glow: That part of the sky glow which is attributable to man-made sources of radiation (e.g. outdoor electric lighting), including radiation that is emitted directly upwards and radiation that is reflected from the surface of the earth.

Sodium lamp, SON lamp

High-pressure discharge lamp with a yellowish colour appearance and an extremely high efficiency. SON and SON Comfort lamps, with improved colour characteristics, are mainly applied in high-bay industrial applications.

Solid-state lighting eg. LED

Description of a lighting device that does not contain moving parts or parts that can break, rupture, shatter, leak or contaminate the environment (such as a lamp).

Spill light (stray light)

Light emitted by a lighting installation which falls outside the boundaries of the site for which the lighting installation is designed.

Starter

Device for starting a discharge lamp, in particular a fluorescent lamp, that preheats the electrodes and/or causes a voltage surge in combination with the series ballast.

Switching and dimming control

As more and more light sources can be dimmed economically, lighting controls need to provide both switching and light regulating capabilities.

TL5

Linear double-ended fluorescent lamp with a diameter of 16mm. In combination with OLC optics and high-frequency ballasts the TL5 system offers a superb performance, both in terms of lighting technology and energy consumption.

TL-D

Linear double-ended fluorescent lamp with a diameter of 26mm. Available in a range of colours and colour rendering characteristics.

Threshold increment (TI)

The measure of disability glare expressed as the percentage increase in the contrast required between an object and its background for it to be seen equally well with a source of glare present.

Note: Higher values of TI correspond to greater disability glare.

Uniformity ratio

Ratio of the minimum over the average illuminance for a specified area (E_{min}/E_{ave}).

When defined as such, the uniformity ratio is also the ratio of the minimum over the maximum illuminance for a specified surface area (E_{min}/E_{max}).

Utilisation factor

Utilisation factor (UF) of a lighting installation represents the percentage of the luminous flux of the lamp(s) that reaches the defined working plane. UF can be seen as the efficiency of the lighting installation. UF is used to calculate the number of luminaires required.

Vertical illuminance

Illuminance incident on the vertical surface.

Unit: lux (lx) = lm/m²

Symbol: E_{vert}

Visual guidance

The sum of the measures taken to give the user of a space an unambiguous and immediately recognisable picture of the course of the path ahead. Visual guidance is important in shops and other public buildings. The lighting designer takes the demands for visual guidance into consideration.

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Document number: 919002151397

Release date: May 2014