

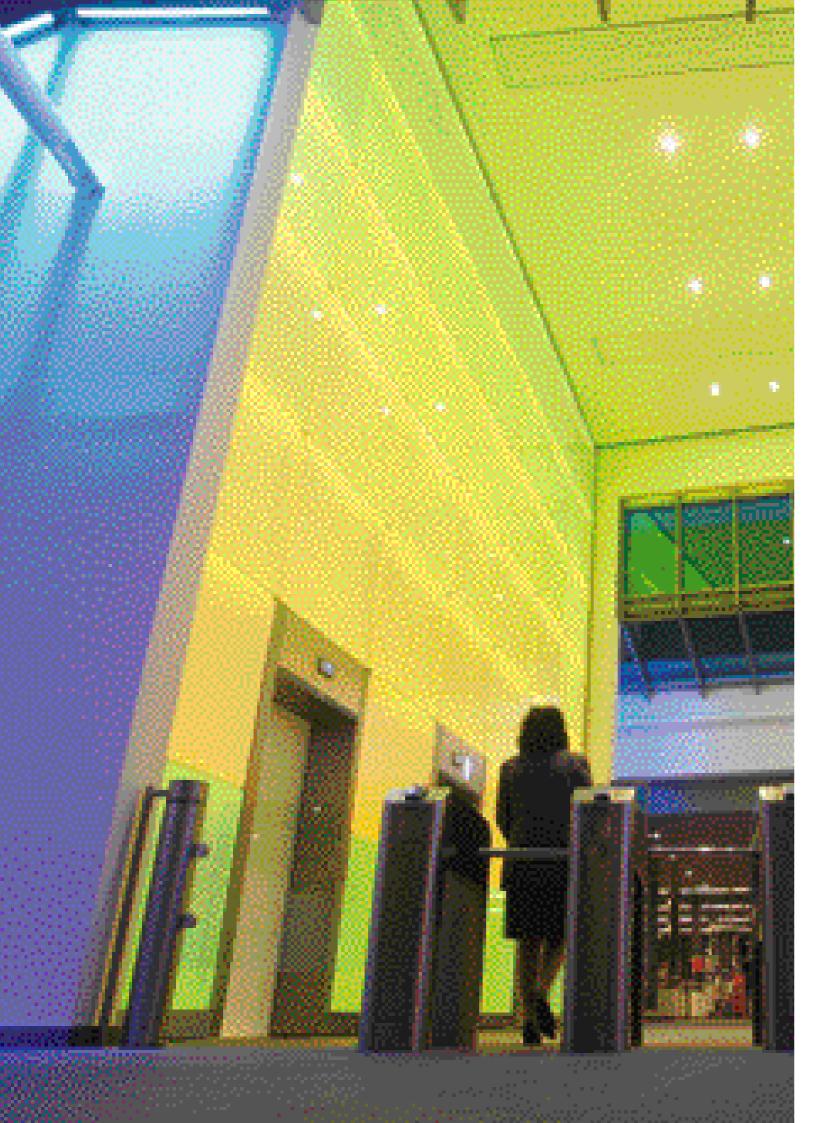
Information

An overview of LED products and solutions



An overview of LED products and solutions

'This brochure offers a window on the world of Philips LED lighting. This side of the brochure explores Philips' portfolio of state-of-the-art LED solutions, the tools used to achieve these spectacular results. The other side of the brochure is intended to provide inspiration, by outlining a variety of projects where LED lighting has helped turn visionary design into practical reality.'



We take LED lighting seriously

Philips is the world's leading manufacturer of high-power LEDs and a pioneer in the use of solid-state lighting solutions for everyday applications, including automotive lighting, computer displays, LCD televisions, signage and signaling – and, of course, general lighting.

Our patented LUXEON® Power Light sources are the first to combine the brightness of conventional lighting with the small footprint, long life and energy efficiency.

We manufacture billions of LEDs annually and produce the world's brightest red, amber, blue, green and white LEDs.

Our latest addition – LUXEON® K2 LED – offers significant increases in luminous flux, permitting a much broader range of solid-state lighting applications than ever before.

Combined with creative design, this has laid the foundation for a new generation of cutting-edge luminaires.

And this is just the beginning...





Beamer LED, Spot LED, Accent LED

Wall / Grazing

LEDline², Grazer LED, Wallwasher LED, LED module systems

Front

Dynaflood LED, LEDflood

Contour

Batten LED, Flexible Tube LED

Water (Spa)

Underwater LED

Pannel

Origami LED

Guidance

Marker LED, Wallmarker LED, Amazon LED

Pedestrian

Citywing

Controls

ColourChaser (DMX)

Customized solutions

Various

Deco LED, LED String, Affinium LED freezer lighting, Imageo, dLine, Candeo



Beamer LED, spot on

Beamer LED is a projector luminaire for outdoor architectural floodlighting. It incorporates a single high-power LED and is designed for light projection over distances up to 30 m, with perfect control of spill light.

The aluminum housing and U-bracket ensure a robust, solid construction, enabling the Beamer LED to withstand harsh outdoor conditions.

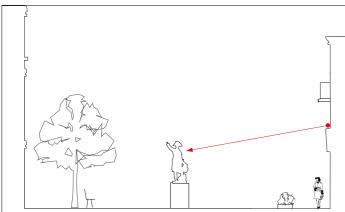
This projector offers maximum aiming flexibility – Zoomspot adjustment, beam rotation, tilt and pan – ensuring complete freedom of installation.

In addition to white and saturated colors, thanks to the new Solgel filter technology light blue and yellow gold are also possible.

Beamer LED is available in surface-mounted and pole-mounted versions.



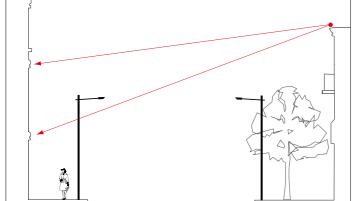
A versatile beam



Spot (2x1.1°)

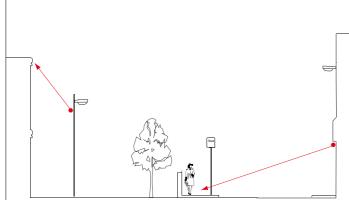
Light projection for long distances of up to 30 m. Used for places that are difficult to access or facades where it is not permitted for luminaires to be mounted.





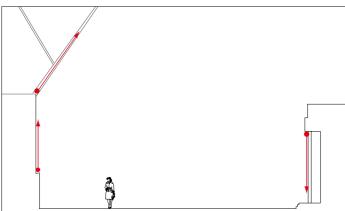
Zoomspot (2x1.7° to 2x5.8°)
Freedom to adjust the size of
the spot in relation to the object
and the distance. Recommended
distance is between 10 and 20 m.





Line (2x1.3° by 2x25°)
Projection of a line that is
10-50 cm in width depending
on the distance and is adjustable
in length. For creating patterns
or underlining objects or edges.



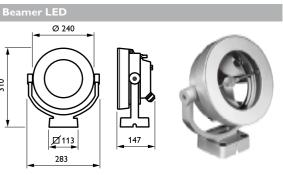


Grazing

Light with a close offset to the object. The beam of light reaches up to 20 m and is approximately 15 cm wide. For underlining vertical or horizontal architectural elements.

Technical information Beamer LED

Туре



Spot (RND2)

Zoomspot (RND2-6) Line (LIN6-50)

Grazer (C-NB)

Light source I \times LUXEON® / optical module

Radiation pattern: lambertian

350 mA / 750 mA

Light color White (WH), red (RD), green (GN), blue (BL), amber (AM),

cyan (CY). White with Solgel filter: light blue (LBL), light transmission 55%. White with Solgel filter: Yellow (YE), light transmission 67%. White with dichroic filter: Warm White 3 400 K,

light transmission 60%

Power supply 110 - 240 V AC / 50 - 60 Hz with integrated gear

Consumption < 5 W

Operating - 20°C < Ta < +35°C Outdoor

temperature Clasification

Remarks

ation IP66

Class I and Class II

INUO

Material Housing and U bracket: die-cast aluminum

(anodic grey paint RAL 9006)

Optic: anodized parabolic reflector, lenses and prisms in

methacrylate

Cover: tempered glass

Cover frame: brushed stainless steel

Flexible positioning and aiming possibilities

horizontal axis: -170 to +170° (cable restriction)

vertical axis: -90 to +90°

Beam rotation: (external ring on the housing)

-180 to +180°

Through wiring; two M20 cable glands

 $(3 \times 2.5 \text{ mm}^2)$

Thermal management system for long life time;

50.000 hours, 70% lumen maintenance



Spot LED



Spot LED is an innovative and stylish family of projectors, track and downlights featuring the latest LED technology. It incorporates the LUXEON® K2 high-power LED, which delivers more light than ever before, and has no UV/IR radiation.





Small delight

Spot LED 1 x K2 is a real revolution in accent lighting. With an adjustable projector head of only \emptyset 31 mm, this is an incredibly small luminaire. Spot LED 1 x K2 is available as a complete range - surface-mounted, recessed, and wall-mounted.

Sparkling and sustainable

Spot LED 3 x K2 offers incredible energy and maintenance savings in hospitality applications and adds sparkle to retail environments. Maximizing light output and efficiency, it incorporates 3 x LUXEON® K2 high-power LEDs and is available as recessed and track-mounted, There is a choice of square and round ceiling rings for fixed recessed versions to add that finishing touch.

Spot LED surface-mounted







Remarks







Semi-recessed adjustable:

I x LED square: BBG401

I x LED round: BBG400

2 x LED square: BBG402

I x LED round: BBG410

1 x LED square: BBG411

1x Luxeon® K2, 4 W

Cool white or blue

Narrow beam: 2 x 5°

Optic: polycarbonate

IP20

Medium beam: 2 x 12.5°

220-240 V AC / 50 - 60 Hz

Separate transformer included

Recessed fixed:



| - | 6 | 3 |
|---|---|---|
| | | |

With integrated transformer: Types

I x LED: BCG401

2 x LED: BCG402

I x LED wall: BWG401

I x LED desk: BDG400

(transformer is integrated in mains plug)

I × LED: BCG400

(delivered with separate transformer)

Light source I x Luxeon® K2 or 2 x Luxeon® K2, 4 W

Cool white or blue (BWG401 only in cool white)

220-240 V AC / 50 - 60 Hz

Optic Narrow beam: 2 x 5°

Medium beam: 2 x 12.5°

(BWG401 only in $2 \times 12.5^{\circ}$)

Classification

Light color

Remarks

Power supply

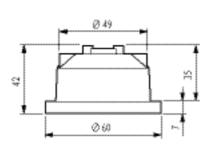
Materials Housing: brushed aluminum and polycarbonate

Base plate: brushed aluminum and polycarbonate

Optic: polycarbonate

Ceiling ring: brushed aluminum

Lifetime: 50,000 hours, 70% lumen maintenance



Housing: brushed aluminum and polycarbonate

Lifetime: 50,000 hours, 70% lumen maintenance

Product shown: Spot LED BCG400

All dimensions in mm

Product shown: Spot LED BBG401 All dimensions in mm

Spot LED recessed





| ı | Spot | LED | tr | acl | K | mo | ou | n | te | ₫ |
|---|------|-----|----|-----|---|----|----|---|----|---|
| | | | | | | | | | | |



| Types | Recessed fixed with separate transformer (included): | Track mounted spot with adaptor suitable for mounting on |
|--------------|--|--|
| | Round: BBG 450 | minorail track |
| | Square : BBG 45 I | BRG440 |
| Light source | 3 x LUXEON ® K2, 9.9 W | 3 x LUXEON ® K2, 9.9 W |

| Light Color | Cool white | |
|----------------|--|--|
| Power supply | 220-240 V / 50 Hz | |
| Optic | Narrow beam: 2 x 5° | |
| | Medium beam: 2 × 12.5° | |
| Classification | IP20 | |
| Materials | Housing: brushed aluminium and polycarbonate | |
| | Optics: polycarbonate | |
| | Ceiling ring: brushed aluminum | |

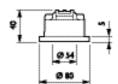
(12.4 W including transformer losses)

Cool white 220-240 V / 50 Hz Narrow beam: 2 x 5° Medium beam: 2 x 12.5° Housing: brushed aluminium and polycarbonate Optics: polycarbonate Track in brushed aluminium finish ZRG 440 L1000/L2000

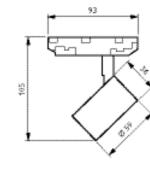
(compatible with accessories from Minorail Express RCS800, use minimum 3 pcs. Spot LED with ZCS800TPS, I50 VA transformer power supply)

Lifetime 50.000 hours, 70% lumen maintenance





Lifetime 50.000 hours, 70% lumen maintenance



Product shown: BBG450 Product shown: BBG440All All dimensions in mm dimensions in mm



AccentLED, accentuate without the heat

When you choose Philips AccentLED lamps as a lighting solution, you get more than just new technology. AccentLED lamps offer energy-saving benefits of up to 80% compared with other technologies and have a highly intense and clearly defined beam, which does not generate heat.

If you want minimum maintenance but maximum effect on heat-sensitive products, choose Philips AccentLED.







E27

AccentLED MR16

GU10

AccentLED

Low-voltage (MR16 GU5.3) and mains-voltage (GU10 and E27) LED reflector lamps for replacement of incandescent and halogen reflector lamps in specific indoor applications

Ix LUXEON® I 2W power LED Light source Warm white (3000K) Light color

Cool white (5500K)

Beam angle 10° Beam intensity

Туре

240-335 cd

Remarks The MR16 type is dimmable (6-12V). Lifetime is 35,000 hrs. lumen maintenance.



LEDline², composing with light

LEDline² is a LED-based range of linear floodlights that can be used to illuminate and enhance both contemporary and historical architecture.

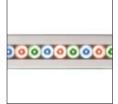
LEDline² features high-power Luxeon[®] LEDs, dedicated optics, high-quality materials and lighting electronics. And the RGB / AWB version offers dynamically changing colours.

The linearity of LEDline² is designed to complement the geometry of the architecture, turning surfaces into 'curtains' of light and transforming light into objects. LEDline² RGB / AWB is compatible with DMX and enables dynamic color changes.

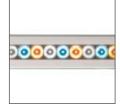
LEDline² features the latest technical innovations to facilitate installation, including an integrated power supply and a sealed-for-life optical unit.

The LEDline² AWB delivers the full palette of natural white light, revealing the beauty of the architectural materials used.

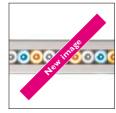
LEDline² RGB



LEDline² AWB



LEDline² Mono



Containing high-power Luxeon® LEDs, the LEDline² provides precise light distribution and uniform illuminance, and is ideal for scene setting. LEDline2's unique collimating optic generates unrivalled power, enabling the designer to create a strong, continuous wash of light.

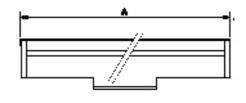
Medium beam Façade 2 × 15° Wash of light covering 7 m

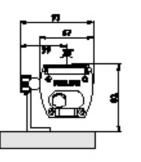
Wide beam

 $2 \times 27^{\circ}$

Façade

Wash of light covering 5 m





LEDline²

Recessed: 12 × LED: BBS713 24 x LED: BBS176 Surface mounted: 6 x LED: BCS716

12 x LED: BCS713 / BCS722

24 x LED: BCS716 48 × LED: BCS722 3 x 12 x LED: BVS733 Luxeon® LED

Max. 65 W per meter

white (WH)

Mono color: amber (AM), green (GR), red (RD), blue (BL),

230-240 V AC / 50-60 Hz (integrated driver)

ColourChaser DMX, ColourChaser Wheel

* Length depends on the amount of LED's and the beam width.

For detailed information, please visit our e-catalogue

Lifetime 50.000 hrs, 70% lumen maintenance

Symmetrical collimating lenses Narrow beam 2 x 3°

Medium beam (2 x 15°) Wide beam (2 × 27°)

DMX driver integrated

Housing: anodized aluminum End caps: polycarbonate (grey)

Bracket: anodized aluminum 63 × 67 × 300 (A) mm*

 $63 \times 67 \times 600$ (A) mm* 63 x 67 x 1200 (A) mm*

Tilt: wall-mounted 315° Tilt: surface-mounted 30°

IP66

Cover: PMMA

Types

Light source

Light color

Power supply Optic

Driver

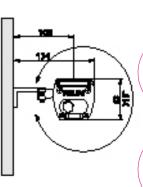
Materials

Remarks

Complementary optic

Controls (optional)

Dimensions (HxWxL)



Product shown: LEDline² RGB BCS716 and BCS722 All dimensions in mm Tri-color: red, green and blue (RGB), amber, white and blue (AWB)



Grazer LED, for striking light patterns

Grazer LED is a family of innovative grazing luminaires with LUXEON® inside. This plug-and-play range enables grazing concepts on walls and ceilings, and these can be adjusted to create vertical, inclined or horizontal grazing light patterns.

The Grazer LED luminaires are impact-resistant and cool to the touch, and also feature low power consumption. Grazer LED is available in cube (single and twin) and carousel (single and twin) versions. There are two accessories for the single cube version – a refractor and a luminance accessory.

Grazer LED rectangular



I x LUXEON® I or 2 x LUXEON® I

Power consumption: 1.7 W (single) / 2.4 W (twin)

Life-time 50,000 hrs, 70% lumen maintenance

Luminance accessory (ZCG421 O) Refractor accessory (ZCG 421 P)

Blue, amber, cool white, red, green

BCG421/BCG422

100-240 V / 50-60 Hz

Integrated transformer

Glow wire test850° C

Housing: aluminium

Optics: polycarbonate

IP20

Class I

EN 60598



Grazer LED round



| I x LUXEON® I or 2 x LUXEON® I |
|-------------------------------------|
| Blue, amber, cool white, red, green |

100-240 V / 50-60 Hz Integrated transformer

BCG431 / BCG432

Power consumption: 1.7 W (single) / 2.4 W (twin)

IP20 Class I

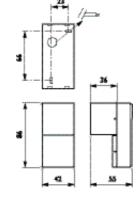
Glow wire test 850° C

EN 60598

Housing: aluminium

Optics: polycarbonate

Life-time 50,000 hrs, 70% lumen maintenance



Туре

Light source

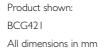
Light color

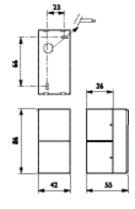
Power supply

Classification

Material

Remarks





Product shown:
BCG422
All dimensions in mm







Product shown:
BCG431 / BCG432
All dimensions in mm





LED module systems, design flexibility

A LED Module is a highly versatile, self-contained modular lighting sub-system – almost any configuration is possible. You can confidently integrate LED Modules into your next architectural design, because we have taken care of optical, thermal and mechanical optimization. Each LED Module is available with different optics (for narrow, medium and line beams) and can operate on a Xitanium or LED power driver.

To create various lighting effects we offer three ranges

- I. For dynamic multicolor changing effect: LED module system RGBA
- 2. For dynamic single color effects: LED module system
- 3. For static lighting: LED Modules on/off

Benefits

Saturated colours - maximum visual effect

Dynamic lighting (excl. on/off)

Long life - lower cost of ownership

Robustness - reliability, shock and vibration-proof

Safe operation; 24 V DC

Applications

- Shop lighting, hospitality, city beautification
- Architectural lighting and particularly wall-washing effects







LED Module 2 x 2 Medium wide beam



LED Module 1 x 4 Line beam

LED module system RGBA



| Range | I type | |
|-------------------|---|--|
| Light source | LUXEON® LEDs of 1 or 3 W | |
| LED color | RGBA combined in one module | |
| | | |
| Power supply | LED power driver 20, 60, 100 W, or Xitanium 40, 67 and 80 W | |
| Control interface | DALI / DMX | |
| Optics | Medium, narrow or line beam | |
| Materials | Housing: aluminum, Optics: UV-stabilized polycarbonate | |

LED module system



40 different types LUXEON® LEDs of 1 or 3 W

One single color per module

Red, green blue, amber, cool white, warm white

LED power driver 20, 60, 100 W, or Xitanium 40, 67 and 80 W $\,$

DALI / DMX

Medium, narrow or line beam

Housing: aluminum, Optics: UV-stabilized polycarbonate

LED module system on/of





| Range | 17 different types |
|-------------------|---|
| Light source | LUXEON® LEDs of 1 or 3 W |
| LED color | One single color per module |
| | Red, green blue, amber, cool white, warm white |
| Power supply | LED power driver 20, 60, 100 W, or Xitanium 40, 67 and 80 W |
| Control interface | - |
| Optics | Medium, narrow or line beam |
| Materials | Housing: aluminum, Optics: UV-stabilized polycarbonate |



Dynaflood LED, stunning wall-washing

Dynaflood LED is a wall/surface-mounted floodlight that harnesses the power of LUXEON® I LEDs to create attractive wall-washing effects. Featuring four lines of LEDs (9, 12 or 15) in a compact aluminum housing, it offers a high lumen output and an endless choice of colors – cool white, warm white, blue, red, green, amber and RGB mixing

DynaFlood 36 LEDs



| Туре | BCS835 |
|-----------------------|---|
| Light source | 4 x 9 x Luxeon I™ |
| Lamp colour | RGB |
| | Mono: Red, amber, green, blue, cool white or warm white |
| Power supply | 24 V DC |
| Consumption | Max 42 W |
| Controls (optional) | RGB: ColourChaser DMX, Colour Chaser Wheel |
| | Mono: Switch only |
| Optic | 12° (30° and 50° upon request) |
| Operating temperature | -20°C < Ta < 35°C |
| Classification | Class III, IP65, IEC60598-I |
| Lifetime | 50 000 hrs (30% lumen depreciation) |
| Materials | Housing: anodized extruded aluminium |
| | Bracket: galvanized steel |
| | End cover: high pressure die-cast aluminium |
| Remarks | Installation: Plane 60° vertically |
| | Surface mounting 130° |

Lifetime 50.000 hrs., 70% lumen maintenance

DynaFlood 48 LED



| | Par Ja |
|------|--------|
| S845 | |

| 4 × | 12 x l | uxeon | TM |
|-----|--------|-------|----|

RGB

Mono: Red, amber, green, blue, cool white or warm white

24 V DC

Max 56 W

RGB: ColourChaser DMX, Colour Chaser Wheel

Mono: Switch only

12° (30° and 50° upon request)

-20°C < Ta < 35°C

Class III, IP65, IEC60598-I

50 000 hrs (30% lumen depreciation)

Housing: anodized extruded aluminium

Bracket: galvanized steel

End cover: high pressure die-cast aluminium

Installation: Plane 60° vertically

Surface mounting 130°

Lifetime 50.000 hrs., 70% lumen maintenance

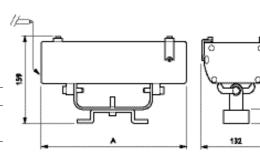
DynaFlood 60 LEDs



| Туре | BCS855 | |
|-----------------------|---|--|
| Light source | 4 x I5 x Luxeon I™ | |
| Lamp colour | RGB | |
| | Mono: Red, amber, green, blue, cool white or warm white | |
| Power supply | 24V DC | |
| Consumption | Max 70 W | |
| Controls (optional) | RGB: ColourChaser DMX, Colour Chaser Wheel | |
| | Mono: Switch only | |
| Optic | 12° (30° and 50° upon request) | |
| Operating temperature | -20°C < Ta < 35°C | |
| Classification | Class III, IP65, IEC60598-I | |
| Lifetime | 50 000 hrs (30% lumen depreciation) | |
| Materials | Housing: anodized extruded aluminium | |
| | Bracket: galvanized steel | |
| | End cover: high pressure die-cast aluminium | |
| Remarks | Installation: Plane 60° vertically | |

Lifetime 50.000 hrs., 70% lumen maintenance

Surface mounting 130°



Product shown: BCS835-36, BCS835-48 and BCS835-60 $\,$ All dimensions in mm $\,$

| | Α |
|-----------|-----|
| BCS835-36 | 350 |
| BCS835-48 | 450 |
| BCS835-60 | 550 |

LEDflood, enhancing structures

LEDflood is a distinctive outdoor floodlight for illuminating and enhancing structures with light.

High-efficiency collimating optics fit each LED, ensuring precise light distribution and uniform illuminance over longer distances.

LEDflood is available with a fixed rotational beam (2 x 3°) or fixed linear beam $(2 \times 3^{\circ} / 2 \times 27^{\circ})$ for grazing or spot/linear lighting. In combination with the patented Zoomspot system, the beam can be adjusted continuously from $2 \times 3^{\circ}$ to $2 \times 15^{\circ}$ within a single floodlight. Flexible aiming (tilt and pan) ensures freedom of installation.

The control platform for LEDflood is DMX, enabling dynamic light. The color combinations WH/AM, BL/WH and AWB deliver the full palette of natural white, revealing the beauty of the architectural material used. The RGB color combination delivers the full range of colors from saturated to pastels and enables dynamic color changes.

LEDflood is suitable for wall and surface mounting and, upon request, pole mounting.

BCP731 mono

BCP732 bi-color BCP733 tri-color

Light source 9 x Luxeon® K2 (amber, red, white, blue, green)

Radiation pattern, lambertian 350 mA / I A

Light color Mono color: white (WH), blue (BL), amber (AM), red (RD)

and green (GN)

Bi-color: white and amber (WH/AM), blue and green (BL/GN),

white and blue (WH/BL)

Tri-color: amber, white and blue (AWB), red, greenand blue (RGB)

220-240 V AC / 50-60 Hz with remote gearbox

Optic Collimating lenses:

- without Zoomspot (2x3°)*

- with Zoomspot (Spot from 2x3° to 2x15°)

- with linear prism (vertical and horizontal line from

2x3° to 2x27°)

Driver DMX driver integrated

Controls (optional)

Power supply

Classification

Materials

Remarks

Туре

ColourChaser DMX, ColourChaser Wheel

IP66, IK08

Remote gearbox: IP65

Housing: die-cast aluminum (anodic grey paint RAL 9006)

Optic: collimating lenses in methacrylate

Cover: tempered glass with silver screen print around optic

(anodic grey paint RAL 9006)

Cover frame: brushed stainless steel

Remote gearbox: die-cast aluminum (anodic grey paint RAL 9006)

Dimensions (HxWxL)

327 × 113 × 180 mm

Thermal management system

Remote Gearbox includes two external cable glands, PG8 for

DMX in / DMX out

Adjustment:

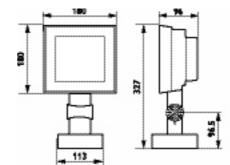
Horizontal axis: -170° to +170°

Vertical axis: -67.5° to + 67,5°

Lifetime 50 000 hrs., 70% luminance

* Not available for RGB and AWB

** Except for linear glass version



Product shown: LEDflood RGB BCP731 All dimensions in mm







Beam locker



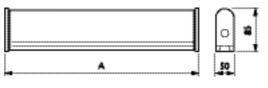


Batten LED, ideal for scene setting

Batten LED is a mono-color luminaire available in five standard color versions – red, green, blue, amber and white – for dynamic ambience, façade lighting and luminance applications.

It is ideal for scene setting with color, with the light appearing to become an integral element of the architecture. It can be used to power-wash a surface from Im up to 3 m, to reveal form and texture. The batten form of the luminaire minimizes the dark area between adjoining fixtures.

The low-power, high-efficiency Batten LED is available in four versions, with 24, 48, 72 and 96 individual LEDs respectively.



Product shown:

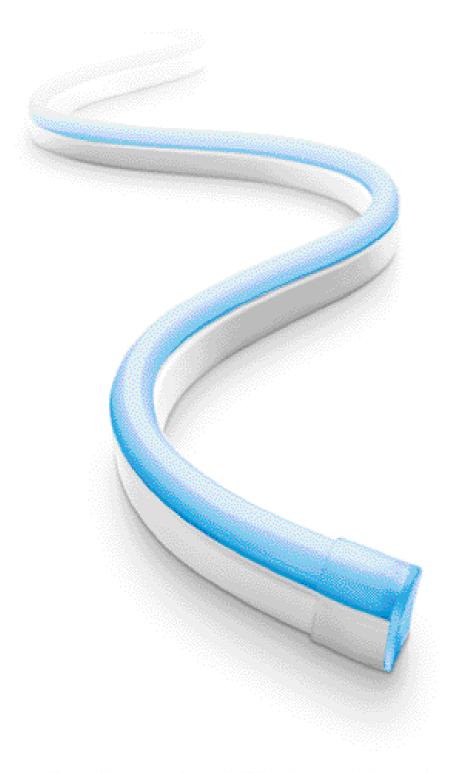
Batten LED BCS103, BCS106, BCS109 and BCS112

All dimensions in mm

| | А |
|--------|------|
| BCS103 | 300 |
| BCS106 | 575 |
| BCS109 | 890 |
| BCS112 | 1185 |
| | |

Batten I FD





Flexible tube LED, bendable light

The Flexible tube LED is a linear luminaire that creates a clean and smooth colored line. 79 LEDs per meter produce a high luminosity on the surface of the tube.

Its miniaturized, flexible structure and uniform luminance make it ideal for integration in architectural elements. The tube can be customized in length on site and is highly impact-resistant.

Remarks



| Туре | BCG200 | |
|-----------------------------------|--------------------------------------|--|
| Light source | 79 x LED per meter | |
| | 4.7 W per meter (red, amber) | |
| | 6.6 W per meter (white, green, blue) | |
| Light color | White, red, green, blue or amber | |
| Power supply 220-240 V AC / 50 HZ | | |
| | Power cord with AC / DC converter | |
| | Maximum installation length 50 m | |
| Protection | IP44 connectors, IP65 tube | |
| Materials | Tube: silicon modified PVC | |
| Dimensions (HxWxL) | 27.5 mm x 14 mm x L* | |

* Marked multiple cutting lengths:

Lifetime: 30 000 hrs., 30% lumen maintenance

Flexible tube LED white, blue and green can be cut every 91 cm Flexible tube LED red and amber can be cut every 152 cm



Underwater LED, illumination in water

Underwater LED is a compact, innovative spot and recessed solution designed to create amazing effects in wet or water environments, like fountains. Fully IP68 to a depth of 10 m, it offers a choice of beams – 12°, 25° and 40° – for precision illumination of, for example, fountains or ponds.

Underwater LED is available in blue, white and RGB versions; other colors are available upon request.







Underwater LED surface mounted

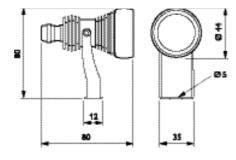


Underwater LED recess

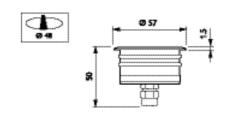




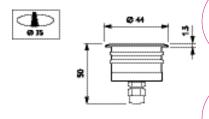
| Туре | BCB 450 surface mounted | BBB 450 Recessed | |
|---------------------|---|---|--|
| Light source | 3 × LUXEON® LED I | I x LUXEON® LED I | |
| | | 3 × LUXEON® LED I | |
| Lamp colour | RGB | RGB | |
| | Mono: Blue, cool white | Mono: Blue, cool white | |
| Power supply | Current Driven, 350mA | Current Driven, 350mA | |
| Consumption | Max 4 W | I x LED: Max 2 W | |
| | | 3 x LED: Max 4 W | |
| Controls (optional) | RGB: ColourChaser DMX, Colour Chaser Wheel with slave | RGB: ColourChaser DMX, Colour Chaser Wheel with Slave | |
| | interface | interface | |
| | Mono: Switching only | Mono: switching only | |
| Optic | 12°, 25° and 40° | 12°, 25° and 40° | |
| Operating | -20°C < Ta < 35°C | -20°C < Ta < 35°C | |
| temperature | | | |
| Classification | Class III, IP68 | Class III, IP68 | |
| Lifetime | 50 000 hrs., 70% lumen maintenance | 50 000 hrs., 70% lumen maintenance | |
| Materials | Housing: stainless steel and chrome, Tempered Glass | Housing: stainless steel and chrome, Tempered Glass | |



Product shown: BCB 450 All dimensions in mm



Product shown: BBB 450 $3 \times LED$ All dimensions in mm



Product shown: BBB 450 $\,\mathrm{I} \times \mathrm{LED}$ All dimensions in mm

Origami, expressive

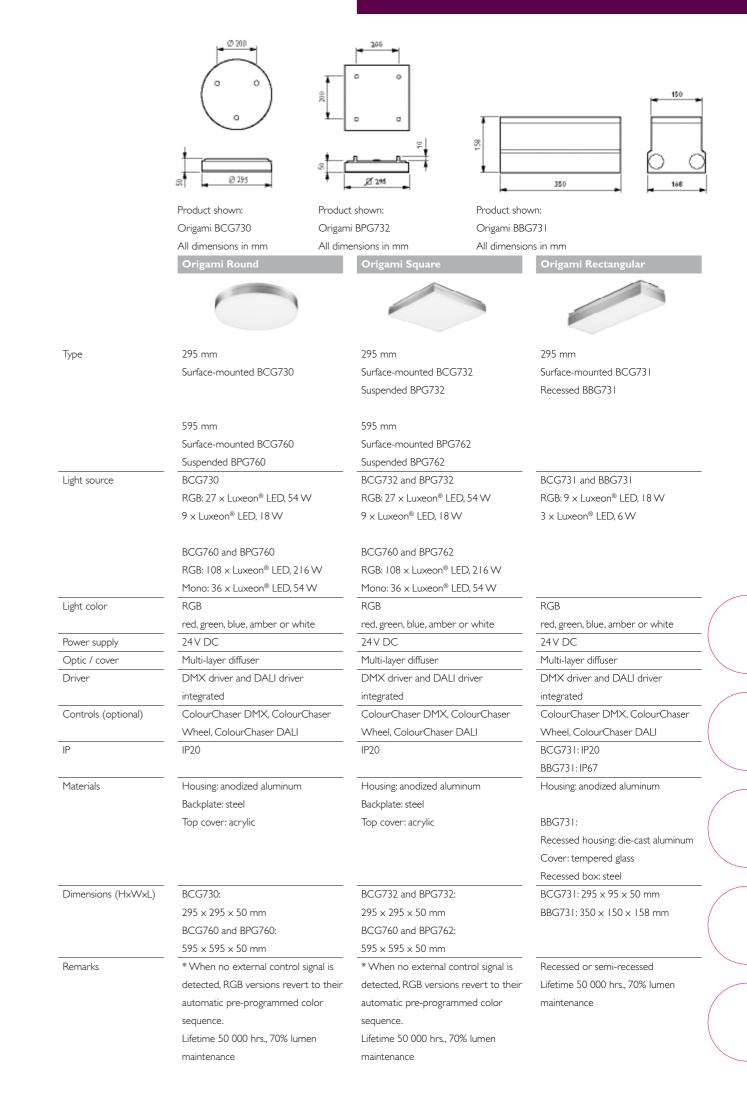
Origami is a rimless lighting tile with maximum color impact. It comes in square, circular and rectangular models. Its evenly lit surface displays a virtually unlimited range of dynamically changing colors (RGB).

The pace of the color changes can be easily adjusted. Origami is compatible with both DALI and DMX and has a pre-programmed color-changing mode for stand-alone usage.

Origami is available in surface-mounted, suspended and recessed versions.

Dynamically changing colors











Marker LED, eye catching

Featuring SMD LEDs in combination with a diffusing glass cover, this luminaire is a clearly visible marker with a uniform light output. The Marker LED RGB version enables dynamic color changes, opening up a wide range of creative options and effects.

The robustly designed Marker LED is available in round, rectangular and square versions and has an easy-to-install wall- and groundrecessed mounting box.

Marker LED



Recessed box

Pre-recessed box



Marker LED round



220-240 V: BBG300 Туре 24 V: BBG30 I 12 × SMD LED Light source RGB, red, green, blue, amber and cool white Light color Power supply 220-240 V AC / 50 Hz Cover Glass with internal diffuser ColourChaser DMX, ColourChaser Wheel Contols (optional) Classification IP67 Materials Top cover: tempered glass Top ring: stainless steel Gearbox: polycarbonate

220-240 V: 92 × 95 × 95 mm Remarks Lifetime 50 000 hrs., 70% lumen maintenance

24 V: 68 × 95 × 95 mm

Mounting accessories:

recessed box 2 x M20, height 145 mm pre-recessed box for concrete, height 178 mm

220-240 V: BBG310



24 V: BBG3 I I 16 × SMD LED RGB, red, green, blue, amber and cool white

220-240 V AC / 50 Hz

Glass with internal diffuser

ColourChaser DMX, ColourChaser Wheel

IP67

Top cover: tempered glass Top ring: stainless steel Gearbox: polycarbonate

 $75 \times 100 \times 100 \text{ mm}$

Lifetime 50 000 hrs., 70% lumen maintenance

Mounting accessories:

recessed box 2 x M20, height 109 mm pre-recessed box for concrete, height 143 mm

Marker LED rectan



220-240 V: BBG320 24 V: BBG32 I

40 × SMD LED

RGB, red, green, blue, amber and cool white

220-240 V AC / 50 Hz

Glass with internal diffuser

ColourChaser DMX, ColourChaser Wheel

Top cover: tempered glass

Top ring: stainless steel

Gearbox: polycarbonate

Dimensions (HxWxL)

Dimensions (HxWxL)

Remarks

Types

Light source

Light color

Cover

Power supply

Classification

Materials

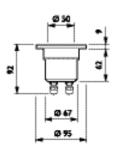
Contols (optional)

 $75 \times 100 \times 200 \text{ mm}$

Mounting accessories:

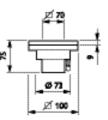
recessed box 2 x M20, height 109 mm recessed box for concrete, height 143 mm

Lifetime 50 000 hrs., 70% lumen maintenance



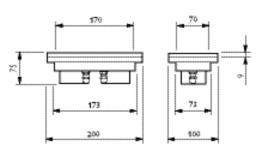
Product shown: Marker LED BBG301

All dimensions in mm



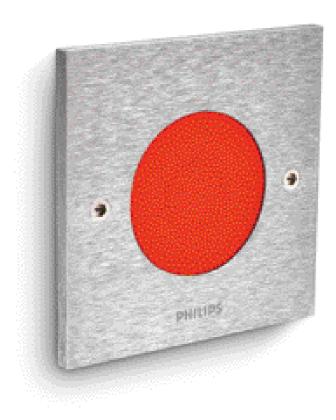
Product shown: Marker LED BBG311

All dimensions in mm



Product shown: Marker LED BBG321

All dimensions in mm



Wall Marker LED, enhancing interiors

Easy to recess in existing plug housings, the fully flush Wall Marker LED offers a choice of colors (white, blue and RGB) to enhance the indoor ambience. The brushed high-grade aluminum creates an attractive look and feel, while the frosted flat cover produces a uniform color effect.

Wall Marker LED is available in round and square versions.

Wall marker 3 LEDs

Wall marker 5 LEDs









| Туре | BBW 300-3 LED round | |
|------------------|---|--|
| | BBW 301-3 LED square | |
| Light source | 3 x LEDs 1,3 W SMD on PCB | |
| Lamp colour | RGB with automatic changing colors | |
| Power supply | 240V AC | |
| Consumption | Max 5W | |
| Controls | RGB: Automatic sequence. Switch to select static colour | |
| Classification | IP 20 | |
| Materials | Cover: Brushed Aluminium and polycarbonate | |
| Lifetime | 30 000 hrs., 70% lumen maintenance | |
| In an Illantin a | Decreed to entitle a business | |

Recessed in existing plug housing

Installation

BBW 300-5 LED round
BBW 301-5 LED square

5 x LEDs 0,8 W SMD on PCB

Mono: Blue, cool white

240V AC

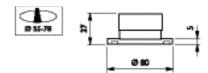
Max 5W

Mono: Switch only

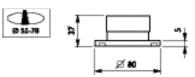
IP 20

Cover: Brushed Aluminium and polycarbonate

30 000 hrs., 70% lumen maintenance



Product shown: BBW300 All dimensions in mm



Recessed in existing plug housing

Product shown: BBW301 All dimensions in mm



Amazon LED

Create an attractive and appealing entrance or pathway with guiding lights. Amazon LED Kit, available in white and blue, is a complete guiding light kit with remote control that can be applied on your deck, terrace or garden.

Amazon LED Kit



| Туре | BBC 211 |
|---------------------|------------------------------------|
| Light source | 10 leds 0,6 W SMD |
| Lamp color | blue, cool white |
| Power supply | 9V DC |
| Consumption | 8W max |
| Controls (optional) | Mono: switching only |
| Optic | Polycarbonate |
| Operating | -20°C < Ta < 35°C |
| temperature | |
| Classification | Class II, IP65, IEC60598-I |
| Materials | Housing: Coated die-cast Aluminium |
| Installation | Recessed |
| · | · |



CityWing Pedestrian LED, paving the way forward

CityWing is a complete lighting solution characterized by miniaturization and elegance. This architectural pedestrian luminaire features 18 high-power LUXEON® K2 LEDs, offering improved illuminance.

The combination of white and/or amber LEDs produces warm-white and cool-white light (color temperatures from 2700 K up to 4750 K). The 4 m-high optical units, in conjunction with 5° tilt, allow 10-12 m spacing between masts.

Warm light 2700 K

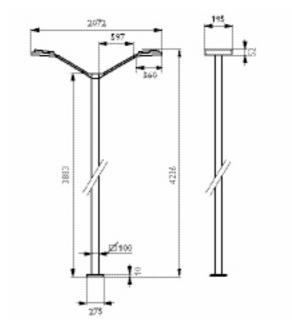


Neutral light 3200 K



Cool light 4750 K





Product shown: Pedestrian LED BPS740 All dimensions in mm

edestrian LED luminaire



BPS740 Two optical modules, two brackets, hub and electronic

driver

ZPS740 Square mast (with integrated driver)

Light source

Туре

Light color

Classification

Materials

2700 K

3200 K

4000 K (bi-color AM/WH)

18 x Luxeon® K2 (white)

4750 K (full white)

Power supply 220-240 V AC / 50-60 Hz

(driver integrated in the mast)

Optic Extensive rotation-symmetrical collimating lenses (cut off: 60°)

IP65 (remote gear IP43)

Housing optical unit: die-cast aluminum (anodic grey paint, RAL 9006)

Optic: collimating lenses in methacrylate

Optic frame: frosted stainless steel

Mast and brackets: extruded aluminum (anodic grey paint, RAL 9006)

Dimensions (HxWxL) $4236 \times 195 \times 2072 \text{ mm}$

Remarks Tilt optical module: 5°

Thermal management system

Lifetime 50 000 hrs., 70% lumen maintenance







Create your own atmosphere - in-a-box solutions

ColourChaser is a range of simple, easy-to-use lighting control solutions that enable users to create their own lighting ambience.

Providing out-of-the-box functionalities, Philips' user-friendly control solutions are ready for use directly after installation. Even users with minimal technical background can install and operate these 'in-a-box solutions'. With the ColourChaser family, it is possible to directly set a color, dim, or create one's own color sequence, simply by pushing a button or turning a wheel.





Dedicated Dynamic sequences can be created with Windowscompatible software (included) and directly uploaded to the ColourChaser DMX.

ColourChaser Wheel RGB (24 V)



| туре | LRC9610/00 |
|--------------|----------------|
| Protocol | DMX512 |
| Channels | 3 |
| Color Mixing | RGB (DMX a |
| Power supply | 24 V DC (23 |
| IP | IP20 |
| Materials | Housing ano |
| Dimensions | 35 × 85 × 85 |
| Remarks | Directly set a |

| DMX512 | DN |
|--------------------------------------|-----|
| 3 | 144 |
| RGB (DMX addresses 1, 2 and 3) | RG |
| 24V DC (230V adapter included) | 230 |
| IP20 | IP2 |
| Housing anodized aluminum | Но |
| 35 x 85 x 85 mm | 60 |
| Directly set a colour, dim, or set a | Cn |
| pre-programmed automatic color | on |
| sequence. | sec |

ColourChaser DMX



| L1(C7000/00 |
|---------------------------------|
| DMX512 |
| 144 |
| RGB, RGBA, RGBW, single channel |
| 230 V |
| IP20 |
| Housing DIN-rail unit: PC |
| 60 × 90 × 105 mm |
| Create your own sequence or use |
| one of the four pre-programmed |
| sequences |
| |

DMX to DALI converter



| Туре | LRC9630/00 |
|--------------|-------------------|
| Input | DMX512 |
| Output | 4 Channels DALI |
| Power supply | 230 V |
| Materials | DIN Rail Unit: PC |
| Dimensions | 60 x 90 x 105 mm |

MULTI-UTILITY MANAGER (MUM)



| Туре | LRC9602/00 | |
|-------------------------------|--|--|
| Input | USB for connection to the PC (software included) | |
| Output | XLR connector for connection to the luminaire | |
| Materials Powder coated steel | | |
| Dimensions | 100 × 40 × 40 mm | |



DecoLED, decorate with color

When you choose Philips DecoLED as a decorative lighting solution, you get more than just a great choice of colored lighting. Suitable for indoor and outdoor use, Philips DecoLED lamps offer up to 80% energy savings and are reliable and safe. The DecoLED outdoor types are especially durable due to their special, weatherproof, non-breakable bulb. The lifetime of the lamps is extremely high in comparison to incandescent solutions, lasting up to 20,000 hours. This also makes them a sustainable alternative. If you want colorful lighting you can rely on, choose Philips DecoLED.











DecoLED Indoor Candle E14

DecoLED Indoor G50 E27

DecoLED Indoor DecoLED Outdoor
GU10 G50 B22

DLED Outdoor DecoLED Outdoor G50 B22 G50 E27

DecoLED La

Various LED lamps for replacement of low-wattage incandescent lamps for a wide range of decorative, party and architectural lighting applications

5 mm LEDs, wattages differ per color type between 0.4 W and 1.5 W for color changing version

Single colors: red, green, blue, yellow, cool white, warm white. Color changing lamp gradually changes every 5.4 seconds with fixed sequence: white (light blue), cyan, yellow, green, purple, blue and red. Total cycle 38 sec.

Color changing versions to operate fully synchronized for a minimum of 48 hours

Power 2 Remarks E

Туре

Light source

Light color

Bulb material is made from UV-resistant polycarbonate. Bulb and cap are glued waterproof and almost unbreakable. Ideal for outdoor use in street decorations. The glass bulb version for indoor applications is available in different types: dichroic reflector with GU10 cap, candle shape with E14 cap and Bulb shape with E27 cap





Affinium LED string, to create decorative light effects in a simple way

The LED string is a flexible chain of LED devices operating on a LED power driver. It is an easy to install solution which enables you to create great lighting effects.









Plane washing

Lighting behind acrylics

Reverse lighting

Cove lighting

Thanks to the string's small dimensions and flexible wiring, you can create new and slimmer architectural or decorative designs.

Low energy consumption

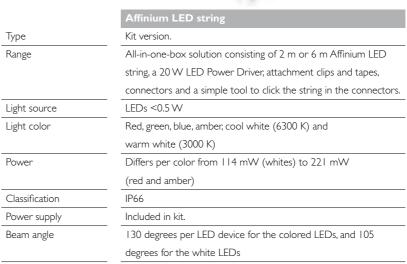
Flexibility

Energy consumption of the Philips Affinium LED string system is only around 4W per metre (e.g. for red).

Savings in maintenance costs

Philips Affinium LED string system is maintenance free for up to 50,000 hours, whereas traditional lighting systems often need replacing after just 20,000 hours.







ffinium LED string

For large projects we offer separate reels of 20 m of LED string. Accessories are available separately.

LEDs < 0.5 W

Red, green, blue, amber, cool white (6300 K) and warm white (3000 K)

Differs per color from 114 mW (whites) to 221 mW (red and amber)

LED power driver 20, 60 or 100 W

130 degrees per LED device for the colored LEDs, and 105 degrees for the white LEDs



Affinium LED freezer lighting, stimulating the frozen food category

This new family of LED freezer modules is designed for replacement of traditional tubular fluorescent lamps inside vertical full-height glass-door freezer cabinets. The modules are operated by a Philips LED power driver of 100 W, 24 V.

The LED freezer modules offer the following key benefits:

- an excellent Total Cost of Ownership
- a much better visual impression of merchandise on display and the entire freezer section
- significantly improved sustainability due to lower energy consumption, reduced landfill and waste, and elimination of hazardous substances such as mercury and lead.







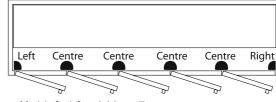
LFM 100 left 18W

LFM 100 center 36W

LFM 100 right 18W

| | Affinium LED freezer modul | es | |
|-------------------------|------------------------------------|---|---|
| Туре | LFM 100 left 18W | LFM 100 center 36W | LFM 100 right 18W |
| | 5000 K 1491 mm | 5000 K 1491 mm | 5000 K 1491 mm |
| Position in the freezer | Left | Center | Right |
| mullion | | | |
| Wattage, typical | 18 | 36 | 18 |
| Light source | LED | LED | LED |
| Light color | Cool white 5100 K | Cool white 5100 K | Cool white 5100 K |
| Color rendering | ≥ 72 | ≥ 72 | ≥ 72 |
| LED power driver | 100 W-24 V | 100 W-24 V | 100 W-24 V |
| Classification | IP54 | IP54 | IP54 |
| Materials | Housing: Polycarbonate | Housing: Polycarbonate | Housing: Polycarbonate |
| | Inside profile: aluminum | Inside profile: aluminum | Inside profile: aluminum |
| Color of profile | Grey | Grey | Grey |
| Lifetime, rated | 50,000 hours, 70% lumen | 50,000 hours, 70% lumen | 50,000 hours 70% lumen |
| | maintenance | maintenance | maintenance |
| Remarks | During 2007 Philips will introduce | more Affinium LED freezer modules to fu | Ifil customer requirements on different |

During 2007 Philips will introduce more Affinium LED freezer modules to fulfil customer requirements on different illumination levels and freezer heights



Module for left and right mullion



Wouldn't it be great to have the intimate atmosphere of candlelight without the hassle of candles? That's exactly what you get with the Imageo Candle Light. Ideal for restaurants, hotels and cafes (both indoors and outside) or anywhere else where ambience is vitally important for business.

The warm, romantic elegance created by candlelight is hard to beat. But candles themselves are not particularly convenient. They can be awkward to light, and can go out prematurely, signalled by an unwanted thin column of smoke. They are often unusable in outdoor situations when there is a wind. When knocked over they spill hot wax over tablecloths, carpets - and people. And the danger of fire is ever present, particularly when children are around.

Exactly like the real thing

With Imageo Candle Light, you have the glow and gentle flicker associated with candles, but none of the drawbacks of an open flame. It looks identical to a conventional frosted glass candleholder with candle inside.

Turned on - or off - by one shake

Another extremely appealing aspect of the Imageo Candle Light is that there is no on/off switch. To turn it on, you simply pick it up and shake it. This, for instance, allows a waiter in a restaurant to create candlelight with a flourish. It is an appealing feature that rarely fails to impress.

Never run out of candle light

The Imageo Candle Light comes in a set of twelve lamps with a storage base that also doubles as a recharging unit. With a recharging time of approximately eight hours, they will always be ready for action once again in the morning after charging overnight. And with an operating time of approximately 20 hours, you need never run out of candlelight, regardless of how long the party goes on!

| Туре | Professional set with 12 candle charger | |
|--------------|---|--|
| Light source | 2x 5 mm LED per candle | |
| Light color | a gentle flame color | |
| Power | 12V charger | |
| | Candle's are operated by a rechargeable battery | |
| Remarks | Charging time for 12 set is 10 hours, operating time is 20 hrs | |
| | Candle's are waterresistant, so can be used both indoor and outdoor | |







dLine, spatial video displays

The Philips dLine range is a revolutionary new concept in architectural and retail LED design. The dPix is a flexible string of LED pixels or "dPix" and the dTube is a rigid tube of LED pixels, both of which may be used to accentuate interior or exterior spaces, to create amazing visual effects on buildings and structures, and to create very large area video and animation displays.

The dPix and dTube are two of the building blocks of the Philips dLine family of LED based creative display products, which allows designers unparalleled power and flexibility in creating spectacular customised display effects for retail, architectural, exhibition and rental applications.

dTubes are very easy to mount, and can be delivered on pre-assembled frames, making it very easy to integrate into a building structure. dTube is a "pixel in a tube" which comes as standard with 5 cm, 7.5 cm or 10cm pixel pitches.

dPix are very flexible, allowing simple creation of curved or complex 3D displays, and thin, allowing for virtually transparent or "see through" arrays. dPix is a "pixel on a string" which comes as standard on 10cm, 20cm, 30cm centres, with up to 32 "dPix" per string, cascadable to any desired length.



| | PHILIPS dPix | | | |
|----------------------|---------------------------|---------------------------|---------------------------|--|
| Туре | dPix 1/100 | dPix 2/100 | dPix 4/100 | |
| Number of RGB | 16 | 16 | 16 | |
| pixels per string | | | | |
| Color | Black | Black | Black | |
| Ingress protection | IP65 | IP65 | IP65 | |
| Operating | -20°C to +50°C | -20°C to +50°C | -20°C to +50°C | |
| temperature | | | | |
| Lifetime | Min 50.000h, Typ. 70.000h | Min 50.000h, Typ. 70.000h | Min 50.000h, Typ. 70.000h | |
| Color resolution | 48 bits | 48 bits | 48 bits | |
| Pixel pitch | 100 mm | 100 mm | 100 mm | |
| Number of LEDs | I | 2 | 4 | |
| per pixel | | | | |
| Brightness per pixel | 1,5 cd | 3 cd | 6 cd | |
| String length | 1600 mm | 1600 mm | 1600 mm | |
| (excl. connectors) | | | | |
| Order number | VWS040 016x001 1A BK | VWS040 016x001 2C BK | VWS040 016x001 4E BK | |
| | | | | |



| | PHILIPS dTube | | | |
|----------------------|-------------------------------|-------------------------------|-------------------------------|--|
| Туре | dTube 1/075 | dTube 2/075 | dTube 4/075 | |
| Number of RGB | 16 | 16 | 16 | |
| pixels per tube | | | | |
| Color | Aluminium base with black PCB | Aluminium base with black PCB | Aluminium base with black PCB | |
| Ingress protection | IP65 | IP65 | IP65 | |
| Operating | -20°C to +50°C | -20°C to +50°C | -20°C to +50°C | |
| temperature | | | | |
| Lifetime | Min 50.000h, Typ. 70.000h | Min 50.000h, Typ. 70.000h | Min 50.000h, Typ. 70.000h | |
| Color resolution | 48 bits | 48 bits | 48 bits | |
| Pixel pitch | 75 mm | 75 mm | 75 mm | |
| Number of LEDs | ı | 2 | 4 | |
| per pixel | | | | |
| Brightness per pixel | 1,5 cd | 3 cd | 6 cd | |
| String length | 1200 mm | 1200 mm | 1200 mm | |
| (excl. connectors) | | | | |
| Order number | VVVS031 016x001 1A BK | VWS031 016x001 2C BK | VWS031 016x001 4E BK | |
| | · | _ | - - | |



Candeo, look on the bright side

The most effective communication in larger indoor environments occurs from a distance of 5 to 50 meters. Until now, there has been no suitable means of dynamic communication that can overcome the issue of size for full impact and the ambient light conditions. With this in mind, Philips Vidiwall has developed the Philips Candeo range of displays, designed specifically to bridge this gap.

The Philips Candeo LED video screen is the latest in professional display solutions. These seamless LED-based screens display all content with ultra-high brightness so viewing is crystal clear, even in bright ambient conditions. Philips Candeo is the true out-of-the-box solution and through the use of Dynamic Power Control, can be operated from a regular European mains socket.

| | Philips Candeo |
|----------------------|------------------------|
| Туре | VWL015,VWL025,VWL035 |
| Brightness | 2000 cd/m ² |
| Display dimensions | 2592 x 1458 mm |
| Display screen type | 3 in I SMD LED |
| Viewing angle | I50° (H) / I50° (V) |
| Pixel pitches | 4.5, 6.75, 10.125 mm |
| Colour temperature | 6500 K |
| Refresh rate | >150 Hz |
| Grey scale | 16 bit |
| Colour resolution | 48 bit |
| Power consumption | 3200 W |
| LED lifetime | >70 000 hours |
| Optional accessories | Wall bracket, pedestal |

