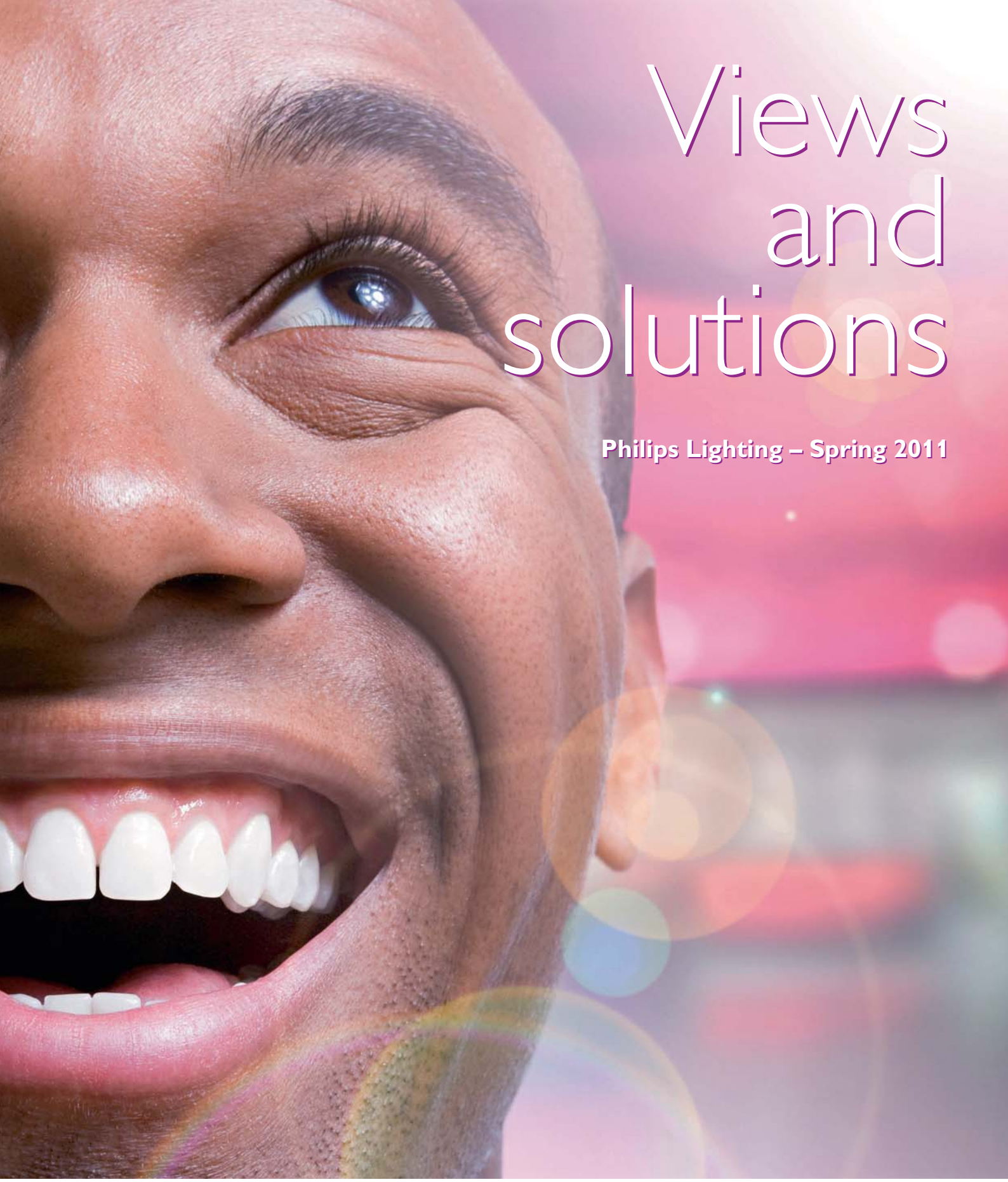


Views and solutions

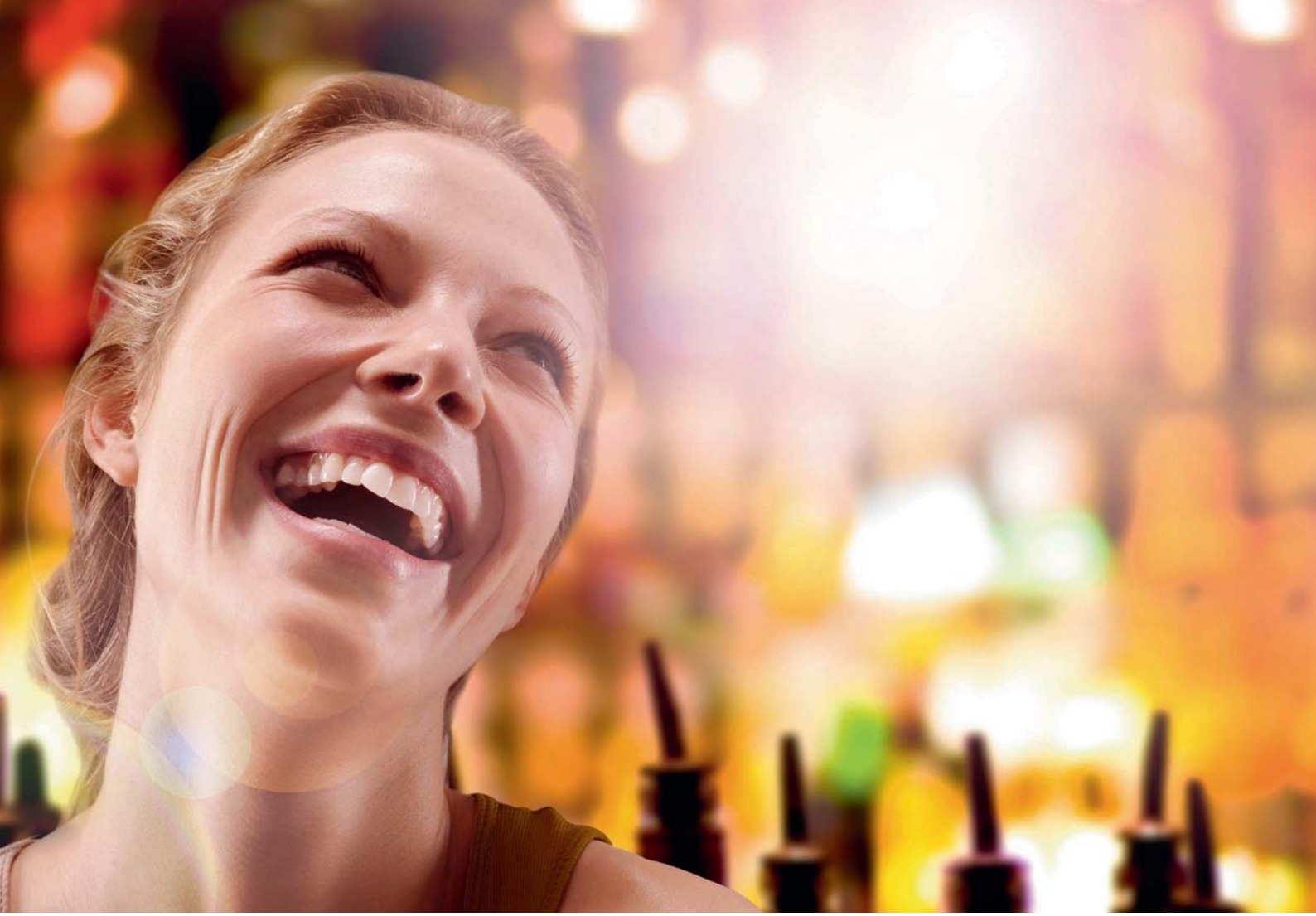
Philips Lighting – Spring 2011

PHILIPS

sense and simplicity

For more information:
www.philips.com/lighting

Data subject to change
Printer: Print Compentence Company - 03.2011
Graphical production: Adnovate

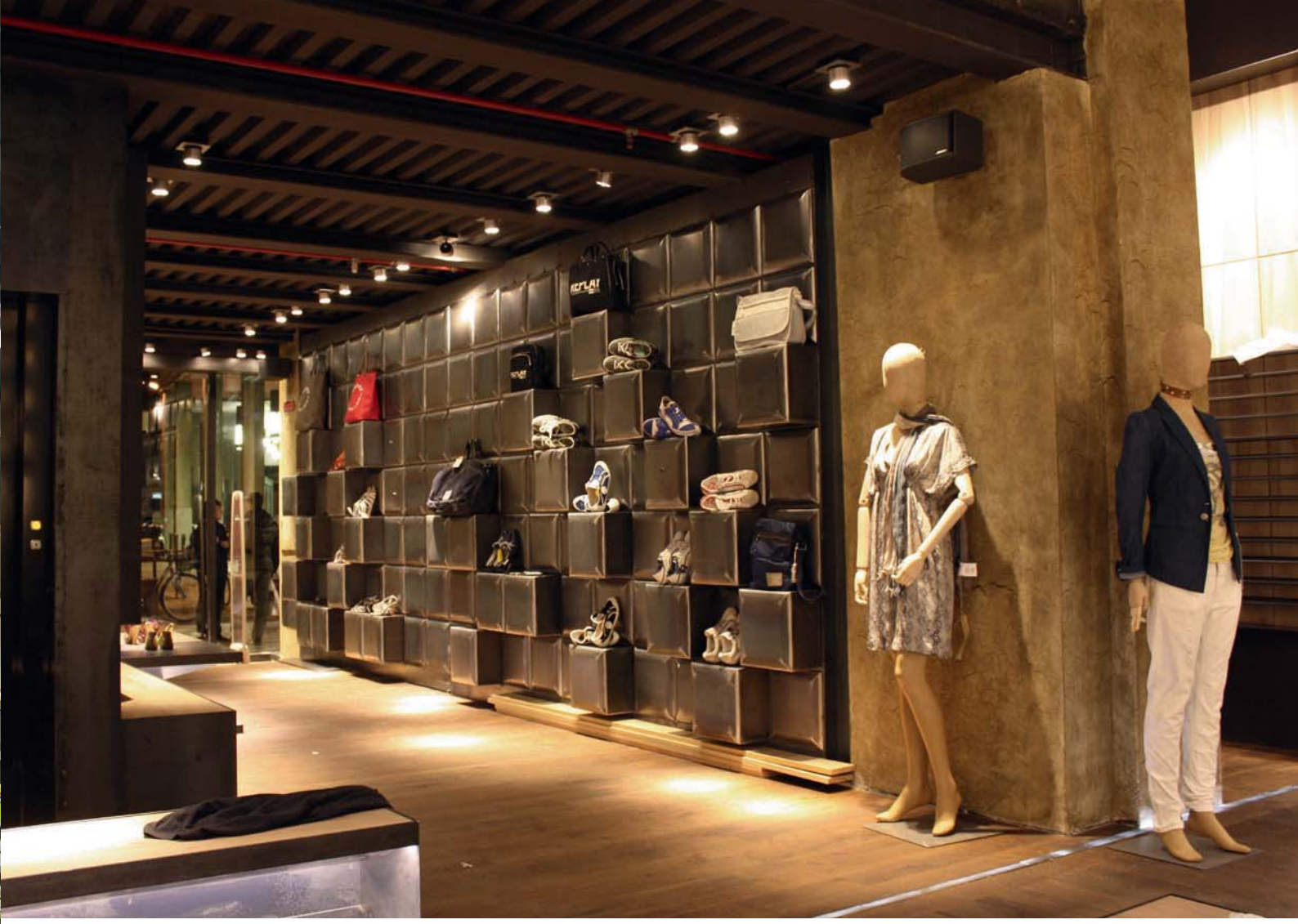


Feel what light can do

Lighting energizes us, makes us comfortable and allows us to enjoy interacting with others. Philips provides flexible lighting solutions that empower people to personalize their spaces, adjust environments according to moods or activities and create a unique experience at the touch of a button. Whether they're shopping, working, reading or relaxing, we can help people feel comfortable. We can help you make the switch to LED easier than you could possibly imagine, enhancing life in your city, shop, supermarket, office, hotel, bar or restaurant with the power of light.

On the pages that follow, you will find our latest solutions. We invite you to have a look at how we are applying our expertise to simply enhance life with light.

Bio-Planet - Leuven, Belgium



Replay store - Milan, Italy

The Philips retail lighting difference

We believe retail lighting is a source of empowerment: when used to its fullest potential, it makes merchandise, brands and business shine.

Flexible, efficient, high-quality light, powered by enabling technologies, helps retailers communicate their identities in a way that is healthy for business, relevant to consumers and maximizes the shopping experience.
The emergence of sophisticated LED technology – an area in which Philips leads the field – brings new levels of adaptability, flexibility, controllability and energy-savings. A lighting system combining both MASTERColour CDM Elite for general lighting and dynamic LED lighting to trigger interest and emotion, can put an almost limitless range of effects and moods at your finger-tips. Providing you with all the tools you need to create exactly what you have in mind: a unique shopping experience.

Hospitality – Personalizing guest experiences

Lighting plays an important role in personalizing guest experiences. Each guest is different and wants a customized experience during his/her stay. Business or leisure, luxury or functional - guests want to be able to personalize the atmosphere and control lighting to suit their individual needs in their hotelroom.

Rafayel hotel - London, United Kingdom

Energy saving

The Hospitality industry is one of the sectors with the largest energy savings potential. Laundry, air conditioning, 24/7 operations - all add to a high CO2 footprint. Lighting is one of the most impactful ways to cut costs; 42% of energy usage comes from lighting, of which 70% is inefficient. We have developed a full range of lighting solutions that will help you save costs and improve your bottom line without compromising on the quality of light.

Meaningful solutions

LED technology holds tremendous potential to conserve energy on a global scale. Our LED lamps and luminaires set new standards in watts consumed per square meter, especially combined with our lighting controls. LEDs also eliminate the need for hazardous substances and because they are designed to last up to three times longer.

New innovations Spring 2011

Retail

Hospitality

Office

Outdoor

All dimensions meationed in the drawings of this brochure are in millimeters

SCHOK

Retail

Ritter Sport Brandstore - Berlin, Germany

StyliD Compact Power – flexibility and style, now with added impact

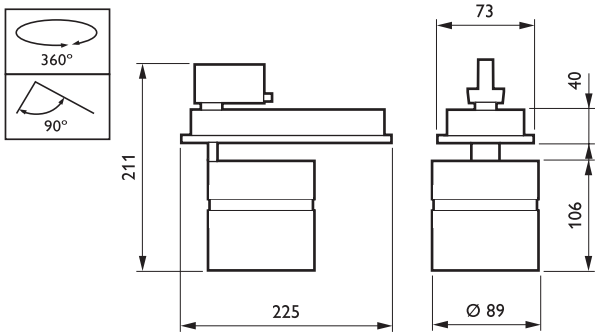
StyliD, our breakthrough LED accent lighting concept, is now even more powerful, thanks to the addition of StyliD Compact Power. With its incredibly small size and high lumen output, StyliD Compact Power is the ideal replacement for 35W compact HID systems – delivering comparable quality of light plus substantial maintenance savings.

When it comes to accent lighting, the StyliD family – including downlights, projectors and 3C track systems – is in a class of its own. With a choice of optics, accessories and mounting, StyliD lets customers configure their lighting exactly as they want it – and to upgrade for savings and style far into the future.

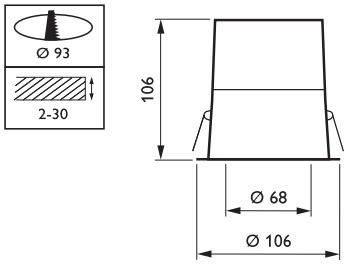
www.philips.com/catalog

StyliD Compact Power	
Type	BBG540 (recessed, fixed round) BBG541 (recessed, fixed square) BBG542 (recessed, adjustable round) BBG543 (recessed, adjustable square) BBG544 (semi recessed, adjustable round) BBG545 (semi recessed, adjustable square) BCG540 (surfaced mounted) BRG540 (3-circuit track)
Light source	SLED1700
Lumens	1700lm(3000K); 2000lm(4000K)
Power consumption	42W(System)
Driver	Recessed and semi-recessed versions: external driver, included in packaging Surface-mounted and 3-circuit versions: integrated in independent driver box Dimmable DALI
Optic	Medium or wide beam
Optical cover	Diffuse PMMA
Material	Heat sink, reflectors and housing: aluminum Fixation: steel and polycarbonate Driver box, accessory and optic holder: plastic Lenses: PMMA
Color	Brushed aluminum (BA), white (WH) or black (BK) Customized color available on request
Accessories	Front housings for recessed-fixed, surface-mounted and 3C-track versions Bezel (frames) for (semi-) recessed adjustable, surface-mounted and 3C-track versions medium- and wide beam optics Snoot-glare shield and honeycomb louver for semi-recessed, surfaced-mounted and 3C-track versions IP44 glass for recessed-fixed versions

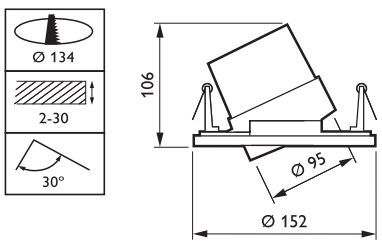
Customized colors of StyliD



StyliD Track



StyliD Recessed fixed



StyliD Semi-recessed adjustable

LuxSpace Compact Square and High Efficacy – high-efficiency sustainable solutions

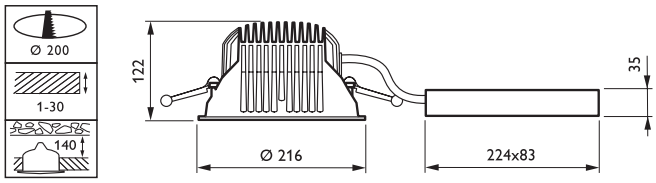
Our highly energy-efficient LuxSpace family has been extended with the addition of three new downlights – LuxSpace Compact Square and LuxSpace High Efficacy (Mini and Compact versions). These innovative downlights can be used for applications that require a high light output and high-quality general lighting, for instance in offices, shops, hotels and hospitals. Their extremely low power consumption results in significant energy savings compared with traditional CFL downlights.

LuxSpace Compact Square and LuxSpace High Efficacy (Mini and Compact versions) feature our latest LED technology and deliver consistent light output, stable color performance and high color rendering. Designed in various sizes to suit different applications, they are very easy to install, and their long lifetime means an end to the hassle of relamping. They also offer a choice of accessories, ensuring maximum performance in all applications.

www.philips.com/catalog

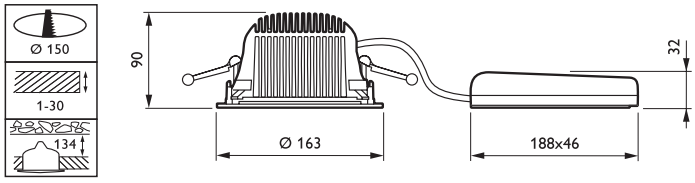
	LuxSpace Compact high-efficacy	LuxSpace Mini high-efficacy	LuxSpace Compact Square
Type	BBS498=UGr22 BBS499=UGr19	BBS488=UGr22 BBS489=UGr19	BBS492
Light source	Non-replaceable LED module	Non-replaceable LED module	Non-replaceable LED module
Power	45W	25W	48W
Optic	High-gloss mirror, UGr22: aluminum High-gloss mirror with ring louver, UGr19: aluminum	High-gloss mirror, UGr22: aluminum High-gloss mirror with ring louver, UGr19: aluminum	High-gloss mirrors: UGr25
Material	Heat sink, bracket, reflector and front rim: aluminum Fixation: steel and polycarbonate Driver box: steel	Heat sink, bracket, reflector and front rim: aluminum Fixation: steel and polycarbonate Driver box: steel	Heat sink, bracket, reflector and front rim: aluminum Fixation: steel and polycarbonate Driver box: plastic
Color	White (WH) or grey (GR)	White (WH) or grey (GR)	White (WH) or grey (GR)
Accessories	High-gloss mirror, UGr22 High-gloss mirror with ring louver, UGr19	High-gloss mirror, UGr22 High-gloss mirror with ring louver, UGr19	High-gloss mirror UGR25 Ceiling support plates

LuxSpace Compact high-efficacy



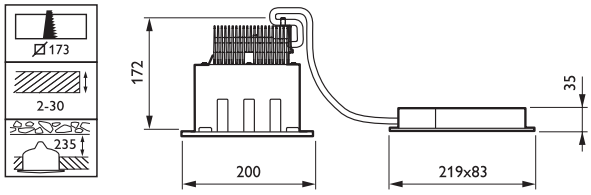
BBS498/BBS499

LuxSpace Mini high-efficacy



BBS488/BBS489

LuxSpace Compact Square



BBS492

TurnRound family – high light output from a compact luminaire

The latest addition to the TurnRound family is the TurnRound Compact – a basic range of LED downlights designed for high-intensity lighting in retail applications. Featuring High-Power LED technology and excellent heat management in a compact form factor, TurnRound Compact downlights are comparable with 35 W CDM luminaires in terms of light output, but offer very substantial maintenance savings.

The rest of the TurnRound family is designed for accent, ambience and guidance lighting in retail and hospitality applications. These versions are comparable with 50W LV Halogen lamps in terms of light output, but deliver very significant energy and maintenance savings.
All TurnRound luminaires are available in warm-white and neutral-white versions, with a choice of narrow and medium beam angles as well as aluminum and – new to the family – white finishes. TurnRound comes in round and square versions (fixed and adjustable), a waterproof version, cardanic gridlight versions (1, 2 or 3 light engines) and a 3C track spot version.

www.philips.com/catalog

TurnRound family			
Type	TurnRound Compact RS396B	TurnRound Round BBG390/BBG391 TurnRound Square BBG392/BBG393 TurnRound IP54 BBG390 TurnRound Projector BRG394	TurnRound Gridlight BBX395 1 light engine 2 light engines 3 light engines
Light source	Non-replaceable LED module	Non-replaceable LED module	Non-replaceable LED module
Power (steady state in W)	37 W	17 W	17 W
Beam angle	20° & 35°	25 (alu) and 40° (alu & white)	25 (alu) and 40° (alu & white)
Luminous flux	1900 lm (3000K) or 2000 lm (4000K)	620 lm (3000K) or 700 lm (4000K)	620 lm (3000K) per light engine
Correlated Color Temperature	3000 K 4000 K	3000 K 4000 K	3000 K
Color Rendering Index	> 80	> 80	> 80
Maintenance of lumen - L70	30,000 hours at 25°C	30,000 hours at 25°C	30,000 hours at 25°C
Operating temperature range	-20 to +50°C	-20 to +50°C	-20 to +50°C
Driver	External driver, included in packaging	External driver, included in packaging	External driver, included in packaging, one per light engine
Material	Housing: aluminum	Housing: aluminum	Housing: steel Light engine: aluminium
Color	Aluminum (ALU) and white (WH)	Aluminum (ALU) and white (WH)	Aluminum (ALU) and white (WH)

TurnRound Compact

TurnRound Round

TurnRound square

TurnRound IP54

TurnRound Projector

TurnRound Gridlight 1 light engine

TurnRound Gridlight 2 light engines

TurnRound Gridlight 3 light engines

MASTERColour CDM Elite – our latest innovations for quality retail lighting

Retailers want energy-efficient lighting that catches shoppers' attention and creates a sparkling in-store ambience, while consumers want to shop in places that capture their imagination and inspire them.

Our MASTERColour CDM Elite lamps offer a unique combination of excellent light quality and lowest total cost of ownership. Now, we are raising the bar in retail lighting with a new generation of Elite lamps that produce even more crisp white light – with unrivalled sparkle and punch. With this new range of 35/50/70/100W Elite lamps we have improved light output and red rendering, as well as extending lamp lifetime and lumen maintenance.

Some highlights:

- The CDM Elite Light Boost 70W lamp makes it possible to adjust light levels (50-100%), while maintaining excellent light quality. This will enhance the shopping experience, attracting the customer's attention and/or saving energy when full light levels are not needed.
- The CDM Elite 50W/930 is designed to replace standard CDM 70W lamps and save energy while improving quality of light.

www.philips.com/catalog

	CDM-T/TC Elite Light Boost	CDM-T/TC Elite
Type	CDM-T/TC Elite Light Boost 70W/930	CDM-T/TC Elite 50W/930
Light output	7800 Lm (at 100% power)	5400 Lm
Luminous efficacy	106 Lm/W	108 Lm/W
Light color	3000 K	3000 K
Color Rendering Index	95	90
Lumen maintenance 12000h	82%	82%
Operating position	any	any
Average lifetime	15 000 hours	15 000 hours
Cap base	G12/G8.5	G12/G8.5
Wattage	70W	50W

House of Fraser – London, United Kingdom

MASTER LEDspot LV MR11

Delivering a warm, halogen like accent beam, MASTER LEDspot LV lamp is an ideal retrofit solution for spot lighting applications in the hospitality and retail and jewelry industry. It is particularly suited to public areas such as receptions, lobbies, corridors, stairwells and washrooms, where the light is on all the time.

The robustly designed MASTER LEDspot offers a choice of beam angles for a clearly defined beam spread. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). Innovative active cooling technology - thanks to the fan inside - results in maximum performance of the lamp. The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. The dimmable versions drive further efficiencies, while helping to create the desired atmosphere.

www.philips.com/masterled

MASTER LEDspot MR11	
Type	4 W GU4 2700 K MR11 24 D 4W GU4 4000 K MR11 24 D
Light source	2 LEDs
Wattage	4 W (20W halogen replacement)
Light color	Warm white (2700 K), Cool white (4000 K)
Color Rendering Index	>80 Ra
Beam angle	24°
Lumen output	700 cd (for 3000 K), 600 cd (for 2700 K)
Average lifetime	25,000 hrs
Dimmable	no

The product is free of mercury and other hazardous materials.

Patented intelligent driver enables broad compatibility with existing halogen transformers.

Hilser Bros – Cork, Ireland

Hospitality

Renaissance Hotel - Amsterdam, The Netherlands

MASTER LEDspot MV GU10 – elegance meets efficiency

Delivering a warm, halogen-like accent beam, MASTER LEDspot MV is a perfect fit for spot lighting (track, corridors, lift lobbies, display cases and cabinets) in the hospitality industry. It is particularly suitable for public areas where the light is on 14/7, such as lobbies, corridors, stairwells, where the light is on 24/7.

MASTER LEDspot MV delivers huge energy savings and minimizes maintenance cost without any compromise on brightness, enabling hospitality owners to achieve a return on their investment within one year. These LEDspots are compatible with most existing fixtures with a GU10 holder and designed as a retrofit replacement alternative for halogen or incandescent lamps. The dimmable versions drive further efficiencies, while helping to create the desired atmosphere.

The product is free of mercury and other hazardous materials.

www.philips.com/masterled

MASTER LEDspot MV GU10	
Type	4 W GU10 2700 K 25D
	4 W GU10 3000 K 25D
	4 W GU10 2700 K 40D
	4 W GU10 3000 K 40D
Light source	1 LED
Wattage	4 W (35 W halogen replacement)
Light color	True warm white (2700 K), Warm white (3000 K)
Color Rendering Index	>80 Ra
Beam angle	25° / 40°
Lumen output	25°: 630 cd (3000 K), 600 cd (2700 K)
	40°: 400 cd (3000 K), 310 cd (2700 K)
Average lifetime	25,000 hrs
Dimmable	Yes

MASTER LEDspot MV
GU10

MASTER LEDspot LV MR16

Delivering a warm , halogen / incandescent-like accent beam, MASTER LEDspot LV is an ideal retrofit solution for spot and general lighting applications in the hospitality industry. It is particularly suitable for public areas such as receptions, lobbies, corridors, stairwells and washrooms, where the light is on all the time.

The robustly designed MASTER LEDspot MR16 offers a choice of beam angles for a clearly defined beam spread. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). Innovative active cooling technology - thanks to the fan inside - results in maximum performance of the lamp. The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. The dimmable versions drive further efficiencies, while helping to create the desired atmosphere.

www.philips.com/masterled

MASTER LEDspot LV MR16		
Type	10 W GU5.3 2700 K 36 D	7 W GU5.3 2700 K 60 D
	10 W GU5.3 3000 K 36 D	7 W GU5.3 3000 K 60 D
	10 W GU5.3 2700 K 24 D	7 W GU5.3 2700 K 36 D
	10 W GU5.3 3000 K 24 D	7 W GU5.3 3000 K 36 D
	10 W GU5.3 2700 K 15 D	7 W GU5.3 2700 K 24 D
	10 W GU5.3 3000 K 15 D	7 W GU5.3 3000 K 24 D
		7 W GU5.3 2700 K 15 D
		7 W GU5.3 3000 K 15 D
Lightsource	4 LEDs	4 LEDs
Wattage	10 W (50 W halogen replacement)	7 W (35 W halogen replacement)
Light color	True warm white (2700 K), Warm white (3000 K)	True warm white (2700 K), Warm white (3000 K)
Color Rendering Index	>80 Ra	>80 Ra
Beam angle	15° / 24° / 36°	15° / 24° / 36° / 60°
Lumen output	2700K: 990 cd (36°)	2700K: 810 cd(36°), 324 cd(60°)
	3000K: 1030 cd (36°)	3000K: 840 cd(36°), 337 cd(60°)
Average lifetime	30,000 hrs	40,000 hrs
Dimmable	Yes	Yes

Patented intelligent driver enables broad compatibility with existing halogen transformers

MASTER LEDspot LV
MR16

Villa Pardoes – Kaatsheuvel, The Netherlands

MASTER LEDspot PAR30S & PAR38

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. There is a choice of dimmable and non-dimmable versions. They are especially suitable for public areas such as lobbies, corridors, stairwells, where the light is always on.

Compatible with existing fixtures with an E27 holder and designed for retrofit replacement of halogen /incandescent lamps, MASTER LEDspots PAR deliver huge energy savings and minimize costs without any reduction in brightness.
The IP44-rated outdoor version of the PAR 38 lamp is one of the few energy-saving alternatives to incandescent PAR38 outdoor lamps available today. The dimmable PAR 20 is a perfect replacement for an incandescent spot.

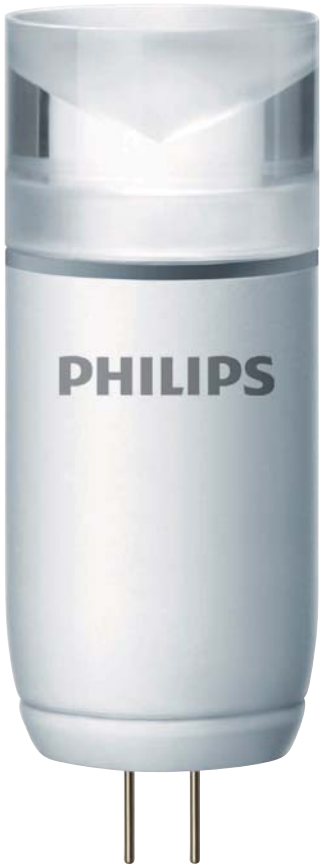
www.philips.com/masterled

MASTER LEDspot PAR		
Type	12 W PAR30S 2700 K	18 W PAR38 2700 K
Light source	8 LEDs	8 LEDs
Wattage	12 W (75 W halogen/incandescent replacement)	18 W (100 W halogen /incandescent replacement)
Light color	Warm white (2700 K)	Warm white (2700 K)
Color rendering index	>80 Ra	>80 Ra
Beam angle	22°	22°
Lumen output	2100 cd	2700 cd
Average lifetime	45,000 hrs	45,000 hrs
Dimmable	Yes	Yes

The products are free of mercury and other hazardous materials.

MASTER LEDspot
PAR30S

MASTER LEDspot
PAR38



MASTER LEDcapsule LV

MASTER LEDcapsule LV radiates warm light in all directions, making it a true alternative for the halogen capsule. It is particularly suitable for task lighting and decorative applications in homes, shops, hotels and restaurants.

Compatible with existing fixtures with G4 holders and designed for retrofit replacement of halogen capsules, MASTER LEDcapsule LV delivers huge energy savings and minimizes maintenance costs without any compromise on light quality. The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers.

www.philips.com/masterled

MASTER LEDcapsule LV	
Type	2,5 W G4 2700 K Capsule
Light source	2 LEDs
Wattage	2,5 W (10 W halogen replacement)
Light color	Warm white (2700 K)
Color Rendering Index	>80 Ra
Beam angle	360°
Lumen output	100 lm
Average lifetime	25,000 hrs
Dimmable	no

The product is free of mercury and other hazardous materials.

Patented intelligent driver enables broad compatibility with existing halogen transformers.

MASTER LEDspot LV 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 where the light is on all the time; such as creative accent lighting applications in shops, restaurants, hotels, and especially for galleries, exhibitions and museums.

The robustly designed MASTER LEDspot LV AR111 offers a choice of a 24° and 40° beam angles for a clearly defined beam spread. Available color temperatures are 2700 K and 3000 K. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. MASTER LEDspot LV AR111 delivers huge energy savings and minimizes maintenance cost without any reduction in brightness.

www.philips.com/masterled

MASTER LEDspot LV AR111	
Type	10 W G53 2700 K AR111 24 D 10 W G53 2700 K AR111 40D 10 W G53 3000 K AR111 24 D 10 W G53 3000 K AR111 40D
Light source	8 LEDs
Wattage	10 W (50 W halogen replacement)
Light color	True warm white (2700 K), Warm white (3000 K)
Color rendering index	>80 Ra
Beam angle	24° / 40°
Lumen output	24°: 3370 cd (for 3000 K), 3200 cd (for 2700 K) 40°: 1210 cd (for 3000 K), 1150 cd (for 2700 K)
Average lifetime	45,000 hrs
Dimmable	no

The product is free of mercury and other hazardous materials.

Patented intelligent driver enables broad compatibility with existing halogen transformers.

MASTER LEDspot LV AR111

Office

AB Energy – Milan, Italy

PowerBalance – sustainable performance

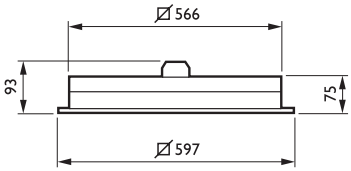
When it comes to lighting an office space with LED luminaires, people are willing to invest in sustainability, but only at reasonable cost. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment.

PowerBalance is an attractively priced LED luminaire specially developed to meet all office requirements. It consumes significantly less energy while offering longer life of the light source, resulting in lower operational cost compared to traditional luminaires.

www.philips.com/catalog

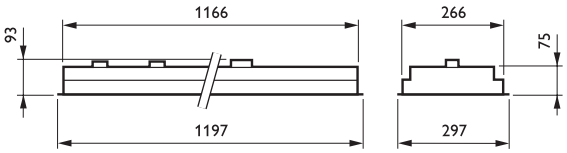
PowerBalance	
Type	RC460B RC462B RC467B
Ceiling type	Exposed T-bar ceiling, bandraster ceiling
Light source	Non-replaceable LED module
Power	LED34S: 45W (4000 K) LED28S: 35W (4000 K)
Beam angle	85°
Luminous flux	LED34S: 3400 lm LED28S: 2800 lm
Correlated Color Temperature	3000 or 4000 K
Color Rendering Index	80
Maintenance of lumen output - L90	30,000 hours at 25°C
Maintenance of lumen output -L70	50,000 hours at 25°C
Operating temperature range	+10°C < T_a < 40°C
Driver	Built-in
Dimming	Compatible with DALI controllers
Options	Airhandling Emergency lighting (EL3) Actilume Lighting controls (ACL)
Material	Housing: zinc-coated steel Rim: post lacquered Optics: plastic
Color	White (WH), silver grey (SI) Standard RAL colors available on request

PowerBalance square



RC460B W60L60

PowerBalance
rectangular



RC460B W30L120

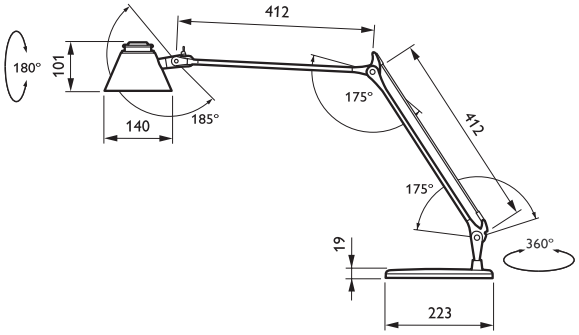
TaskFlex – enabling a new strategy in energy saving

Investors and building owners are looking for ways to save energy and save cost. Our TaskFlex LED desk luminaire makes it possible to install less general lighting and still have the right amount of light on task areas. Furthermore, for our aging workforce, TaskFlex offers that extra light to make reading easier. It can be switched on as and when required, and its two arms can be adjusted to direct the light precisely to where it is needed.

www.philips.com/catalog

TaskFlex	
Type	FS400D
Light source	Non-replaceable LED module
Power	8W
Luminous flux	370 lm
Correlated Color Temperature	3000 K, warm white
Color Rendering Index	> 80
Maintenance of lumen output - L70	50,000 hours at 25°C
Operating temperature range	-20 to +40°C
Mains voltage	100-240 V / 50-60 Hz
Dimming	No
Material	Aluminum
Color	Silver

TaskFlex



FS400D

MASTER LEDtube GA

Philips MASTER LEDtube integrates a LED light source with a frosted cover design into the traditional linear fluorescent form factor. The new light source offers naturally light colors while consuming 22W system energy when replacing TL-D 36W with electromagnetic ballast, resulting in up to 50% energy saving.

The product's long lifetime (i.e. 2-3 times longer than normal fluorescent tubes) and excellent lumen maintenance minimize the hassle of re-lamping while reducing maintenance costs.
Thanks to MASTER LEDtube's full safety features, there is no risk of the user suffering electric shock, a danger that can exist with cut-price alternatives sometimes found on the market. The EMP050 device adds more safety to the system in case unforeseen misuse occurs.
Approbation certificates give the MASTER LEDtube the `Most Reliable' LEDtube to work with.
Complete portfolio for replacing 600mm, 900mm, 1200mm and 1500mm* TL-D tubes

*(April 2011)

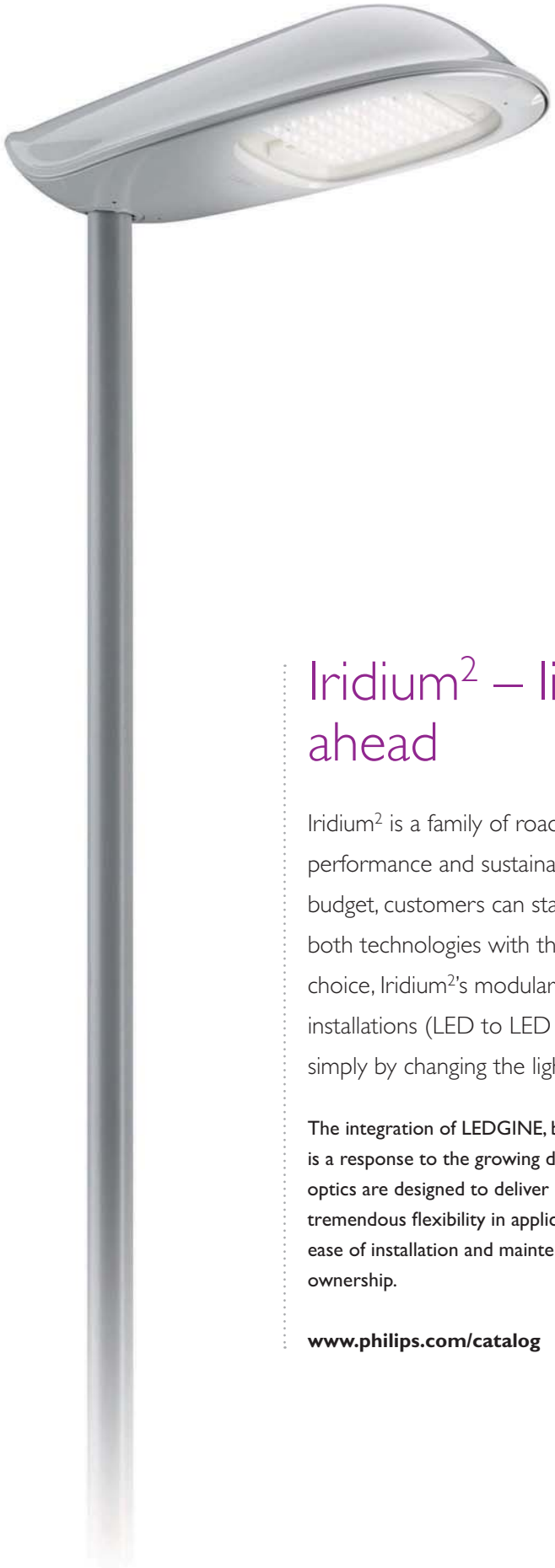
www.philips.com/catalog

MASTER LEDtube GA	
Type	600mm 11W 840 G13
	600mm 11W 865 G13
	900mm 17W 840 G13
	900mm 17W 865 G13
	1200mm 22W 840 G13
	1200mm 22W 865 G13
	1500mm 25W 840 G13
	1500mm 25W 865 G13
Light source	LEDs
Wattage	11W
	17W
	22W
	25W
Light color	Warm white (3000 K): only available upon request, contact local Philips distributor
	Neutral white (4000 K) Cool white (6500 K)
Color rendering index	85 Ra
Lifetime	40 000 hours
Luminous flux	750 lm
	1150 lm
	1500 lm
	1800 lm
Capbase	G13

Giant Hypermarket - Jakarta, Indonesia

Outdoor

Martianez Lake – Tenerife, Canary Islands



Iridium^2 – lighting the road ahead

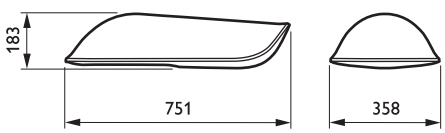
Iridium^2 is a family of road-lighting luminaires designed for performance and sustainability. Depending on the application and budget, customers can start with LED, electronic HID or a mix of both technologies with the same luminaire. Whatever the initial choice, Iridium^2's modularity allows customers to upgrade their installations (LED to LED or e-HID to LED) whenever they want, simply by changing the light engine.

The integration of LEDGINE, brand new HID optics, electronic gear and controls is a response to the growing demand for energy savings. The new Iridium^2 HID optics are designed to deliver best-in-class lighting performance while offering tremendous flexibility in application. All these features, combined with Iridium^2's ease of installation and maintenance, ensure that customers enjoy low cost of ownership.

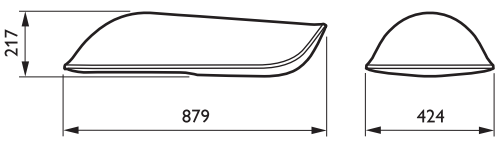
www.philips.com/catalog

Iridium² LED Medium & Iridium² LED Large	
Type	Iridium² LED Medium Iridium² LED large
Light source	Integral LED-module LEDGine
Power	BGP352: GreenLine: min 28W, max 80W - EconomyLine: min 42W, max 120W BGP353: GreenLine: min 83W, max 134W - EconomyLine: min 126W, max 199W
Beam angle	0 or 5°
Luminous flux	BGP352: GreenLine: min 2000 lm, max 7000 lm - EconomyLine: min 2800 lm, max 10,300 lm BGP353: GreenLine: min 6000 lm, max 12,300 lm - EconomyLine: min 8900 lm, max 18,060 lm
Lumen efficacy	GreenLine : up to 95 lm/W - EconomyLine: up to 85 lm/W
Correlated Color Temperature	Warm white 3000 K Neutral white 4000 K Cool white 5700 K
Color Rendering Index	Warm white ≥ 84 Neutral white ≥ 76 Cool white ≥ 68
Maintenance of lumen output - L70	GreenLine : 100 000 hours EconomyLine: 85 000 hours
Operating temperature range	-25 to +35°C
Driver	Integrated
Dimming	CLO, Lumistep, Dynadimmer, SDU, Telemanagement systems (RF…)
Optic	LEDGine Narrow (DN) Medium (DM), Wide (DW), Comfort (DC), Wet Road (DK)
Optical cover	Glass, flat, extra clear
Material	Housing: die-cast aluminum Cover: extra-white tempered glass, 5 mm thick
Color	RAL7035 or silver grey (like RAL 9006) as standard Other RAL or AKZO colors available on request
Accessories	Iridium² Medium Upgrade kit EGP352 Iridium² Large Upgrade kit EGP353

Iridium² LED Medium

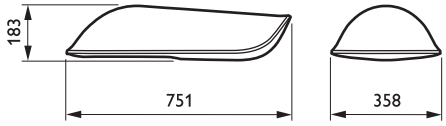


BGP352

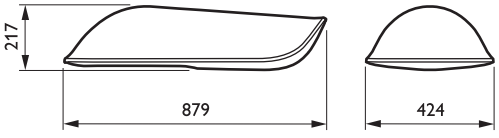


BGP353

Iridium² Medium & Iridium² Large		
Type	Iridium² Medium	Iridium² Large
Light source	HID: MASTER CosmoWhite CPO-TW / PGZ12 / 60, 140 W MASTER SON-T PIA Plus / E27 / 50, 70 W MASTER SON-T PIA Plus / E40 / 100, 150 W MASTER CityWhite CDO-TT / E40 / 100, 150 W	HID: MASTER SON-T PIA Plus / E40 / 150, 250 W MASTER CDM-T MW Elite / E40 / 210 W MASTER CityWhite CDO-TT / E40 / 150, 250 W
Mains voltage	220-240 V / 50-60 Hz	
Optic	Flexible optic (FX1) for Cosmopolis lamps Flexible optic (FX2) for Cosmopolis lamps Flexible optic (FX1) for SON lamps Flexible optic (FX2) for SON lamps	Flexible optic 1 (FX1) for SON lamps Flexible optic 2 (FX2) for SON lamps Flexible optic 2 (FX2) for CDM-Elite lamps
Optical cover	Glass, flat with DynaClean coating (FGD) Glass, flat, extra clear	Glass, flat with DynaClean coating (FGD) Glass, flat, extra clear
Materials and finishing	Housing: die-cast aluminum High-reflective optics (assembled optics) Glass: extra-white tempered, 5 mm thick	Housing: die-cast aluminum High-reflective optics (assembled optics) Glass: extra-white tempered, 5 mm thick
Color	RAL7035 or silver grey (like RAL 9006) as standard Other RAL or AKZO colors available on request	RAL7035 or silver grey (like 9006) as standard Other RAL or AKZO colors available on request
Accessories	Back louver ZGP352	Back louver ZGP353
Options	Light regulation: Stand alone dimming via Lumistep Stand alone dimming via programmable Lumistep Lineswitch via Pilot Line Mains Dimming Light Level Adjustement External dimming Dali Dimming via Telemanagement Dali Dimming via Telemanagement RF Photocell: NEMA socket, Minicell Fuses Pre-cabled luminaire	Light regulation: Stand alone dimming via Lumistep Stand alone dimming via programmable Lumistep Lineswitch via Pilot Line Mains Dimming Light Level Adjustement External dimming 1-10 V (only for SON-T 250W) External dimming Dali Dimming via Telemanagement 1-10 V (only for SON-T 250W) Dimming via Telemanagement Dali Dimming via Telemanagement RF Photocell: NEMA socket, Minicell



SGP352



SGP353

A7 highway – Purmerend, The Netherlands

OptiFlood LED – all you need for area lighting

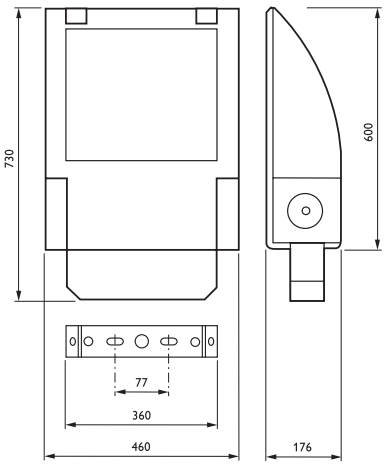
OptiFlood LED is a range of stylish, extremely efficient asymmetric floodlights that can be used to illuminate large areas. Designed around the latest LED technology, it offers significant energy and maintenance savings compared with conventional HID systems. Thanks to its highly efficient LEDGine area optics, it can be used for area lighting applications that have traditionally required HID-equivalent power levels.

Integrated controls are available as an option, enabling additional energy savings. And LED upgrades can be easily incorporated, making this a truly future-proof solution.
With its compact shape and aesthetically pleasing design, OptiFlood LED can be used in applications where design and appearance are just important as technical performance.

www.philips.com/catalog

OptiFlood LED	
Type	BVP506
Light source	Integral LED-module
Power	GreenLine (GRN): 65, 74, 85, 96, 104 or 113 W EconomyLine (ECO): 99, 113, 129, 146, 158 or 172 W
Luminous flux	GreenLine (GRN): 5880, 6720, 7560, 8400, 9240 or 10,080 lm EconomyLine (ECO): 8291, 9475, 10,660, 11,844, 13,028 or 14,213 lm
Correlated Color Temperature	GreenLine (GRN): 4000 K EconomyLine (ECO): 5600 K
Color Rendering Index	70
Maintenance of lumen output - L90	GreenLine (GRN): 35,000 hours at 25°C EconomyLine (ECO): 22,000 hours at 25°C
Operating temperature range	-30 to +40°C (outdoor)
Driver	Built-in (self ballasted LED-module)
Dimming	Dynadimmer or SDU01/11S
Optic	Asymmetrical area (A), symmetrical area (S), road-medium (DM), road-wide (DW), road-extra wide (DX) or road-comfort (DC)
Optical cover	Glass, flat
Material	Housing: high-pressure,die-cast aluminum, non corrosive Cover: thermally hardened glass, 4 mm thick Clips: stainless steel Lens: clear acrylic
Color	'Raw' aluminum or ultra-dark grey (GR) Other RAL colors available on request
Installation	On mast head frame, ceiling, wall and floor mounting Front cover hinges for easy access Aiming indicator ring is integrated on housing and bracket Ambient temperature outdoor: 40°C (30°C indoor) Recommended mounting height: 6 - 10 m Adjustable tilt angle: 15° Max SCx value by side: 0.10 m² Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -90 to +90° Uplighting for indoor only
Accessories	Wire guard Styted pole mounting brackets (single, double, triple and quadruple) available on request

OptiFlood LED



BVP506

Burst Powercore families extended

Architectural floodlights are used to reveal the unique historical and cultural identity of a town. But it's becoming increasingly important to avoid light spill by illuminating only what is needed. Moreover, for some specific accent lighting effects, spotlights need to be mounted in fairly inaccessible places. In all these circumstances, we can provide the ideal solution.

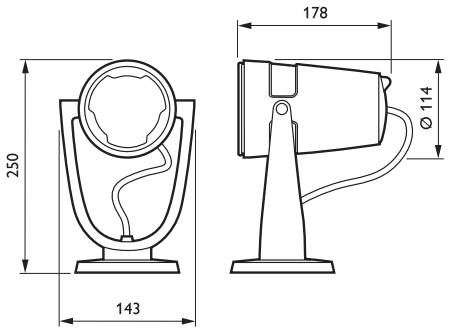
Our Burst Powercore ranges of architectural LED fixtures now come in two sizes: Burst and Burst Compact. Three families feature both solutions, supporting a variety of uplighting, floodlighting and decorative lighting applications:

- eW Burst Powercore and eW Burst Compact Powercore provide high-quality neutral or warm white light, as well as four solid colors – red, green, blue and amber
- iW Burst Powercore and iW Burst Compact Powercore are intelligent, high-performance white-light LED fixtures offering adjustable color temperatures ranging from a warm 2700 K to a cool 6500 K
- ColorBurst Powercore and ColorBurst Compact Powercore are dynamic RGB spotlights delivering full-color light output. All these innovative solutions offer exchangeable optics and accessories for a choice of lighting effects, flexibility in mounting, efficient power output control and easy installation.

www.philips.com/catalog

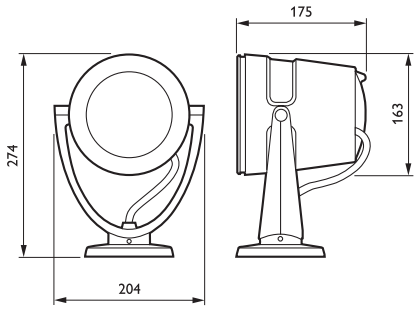
eW Burst Powercore & eW Burst Compact Powercore	
Type	BCP463
Light source	Non-replaceable LED module Available in white (2700 or 4000 K) as well as 4 solid colors (red, blue, green, amber)
Power	eW Burst Powercore: 30 W max. at full output eW Burst Compact Powercore: 20 W max. at full output
Beam angle	8° primary optic 14, 23 or 41° spread lenses 10 x 41° asymmetric spread lens
Luminous flux	eW Burst Powercore: 1168 lm (8°), 1022 lm (14°), 1004 lm (23°), 991 lm (41°), 1046 lm (10 x 41°) - 2700 K 1478 lm (8°), 1280 lm (14°), 1259 lm (23°), 1240 lm (41°), 1317 lm (10 x 41°) - 4000 K eW Burst Compact Powercore: 624 lm (8°), 543 lm (14°), 540 lm (23°), 520 lm (41°), 557 lm (10 x 41°) - 2700 K 812 lm (8°), 685 lm (14°), 674 lm (23°), 646 lm (41°), 695 lm (10 x 41°) - 4000 K
Maintenance of lumen output - L70	90,000 hours at 25°C 45,000 hours at 50°C
Operating temperature range	-40 to +50°C operating -20 to +50°C start-up
Optic	Symmetrical and asymmetrical with spread lenses
Material	Housing: high-pressure, die-cast aluminum, powder-coating finished Glass: tempered Mounting bracket: high-pressure, die-cast aluminum, powder coating finished
Color	Light grey, black and white
Maintenance	No internal cleaning required
Accessories	Spread lenses and trim ring (to hold each lens on the product) Honeycomb louver and trim ring (to hold the louver on the product) Glare shield 45° and full glare shield

Burst Compact
Powercore
Architectural version



BCP463

Burst Powercore
Architectural version



iW Burst Powercore & iW Burst Compact Powercore	
Type	BCP464
Light source	Non-replaceable LED module
Power	iW Burst Powercore: 30W max. at full output iW Burst Compact Powercore: 15W max. at full output
Beam angle	8° primary optic 14 / 23 / 41° spread lenses 10 x 41° asymmetric spread lens
Luminous flux	iW Burst Powercore: 1093 lm (8°), 960 lm (14°), 961 lm (23°), 919 lm (41°), 980 lm (10x41°) iW Burst Compact Powercore: 709 lm (8°), 622 lm (14°), 621 lm (23°), 609 lm (41°), 637 lm (10x41°)
Maintenance of lumen output - L70	50,000 hours at 25° C iW Burst Powercore: 40,000 hours at 50° C iW Burst Compact Powercore: 35,000 hours at 50° C
Operating temperature range	-40 to +50°C operating -20 to +50°C start-up
Optic	Symmetrical and asymmetrical with spread lenses
Material	Housing: high-pressure, die-cast aluminum, powder-coating finished Glass: tempered Mounting bracket: high-pressure, die-cast aluminum, powder coating finished
Color	Light grey, black or white
Accessories	Spread lenses and trim ring (to hold each lens on the product) Honeycomb louver and trim ring (to hold the louver on the product) Glare shield 45° and full glare shield

Color Burst Powercore & Color Burst Compact Powercore	
Type	BCP462
Light source	Non-replaceable LED module
Power	Color Burst Powercore: 30 W max. at full output Color Burst Compact Powercore: 20 W max. at full output
Beam angle	8° primary optic 14, 23, 41° spread lenses 10 x 41° asymmetric spread lens
Luminous flux	Color Burst Powercore: 647 lm (8°), 571 lm (14°), 558 lm (23°), 552 lm (41°), 584 lm (10 x 41°) Color Burst Compact Powercore: 498 lm (8°), 429 lm (14°), 418 lm (23°), 405 lm (41°), 432 lm (10 x 41°)
Maintenance of lumen output - L70	90,000 hours at 25°C (with 3-RGB channels full on) 55,000 hours at 50°C (with 3-RGB channels full on)
Operating temperature range	-40 to +50°C operating -20 to +50°C start-up
Optic	Symmetrical and asymmetrical with spread lenses
Material	Housing: high-pressure, die-cast aluminum, powder coating finished Glass: tempered Mounting bracket: high-pressure, die-cast aluminum, powder coating finished
Color	Light grey, black and white
Accessories	Spread lenses and trim ring (to hold each lens on the product) Honeycomb louver and trim ring (to hold the louver on the product) Glare shield 45° and full glare shield

Wasserturm, Lüneburg

Partner: CPA Lichtkonzept GmbH, Lüneburg

www.cpa-lichtkonzept.de

Photographer: Anne-Katrin Ude - CPA

FreeStreet – feel free in your city

In most towns and cities we can see streets and pedestrian zones that, over time, have become crowded with all kinds of disparate elements – light poles, suspended luminaires, street furniture, etc. – making them appear cluttered, restless and uninviting. Wouldn't it be great to regain the public space and improve the accessibility and appearance of our streets?

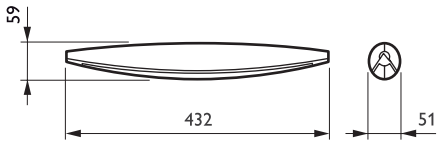
Practically invisible, our FreeStreet suspended lighting system represents a completely new vision of public lighting. Small, stable and lightweight, this state-of-the-art LED solution delivers excellent lighting without disturbing the look and feel of the area, making our streets and pedestrian precincts much more welcoming and accessible.

www.philips.com/catalog

FreeStreet	
Type	BTP700
Light source	Integral LED module
Power (per module)	GreenLine: 18 W ComfortLine: 21 W
Beam angle	48°, rotation symmetric
Luminous flux of system	GreenLine: 630 lm ComfortLine: 650 lm
Correlated Color Temperature	GreenLine: 4000 K ComfortLine: 3000 K
Color Rendering Index	GreenLine: 75 ComfortLine: 80
Maintenance of lumen output	Due to Constant Light Output (CLO) functionality, lumen output will remain the same over lifetime
Operating temperature range	-30 to +25°C
Driver	In control box
Optical cover	Transparent bowl
Material	Housing: aluminum Optical cover: polycarbonate
Color	Black

FreeStreet is only available as a Turnkey project. Please contact your Philips representative for more information.

FreeStreet



BTP700

Eindhoven, The Netherlands

Vaya Flood – simple and reliable

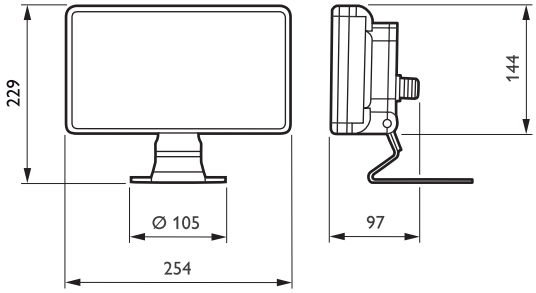
With budgets under pressure, property owners and developers are looking, more than ever, for value for money when it comes to capital expenditures.

Vaya Flood is an affordable and reliable LED solution that minimizes the initial investment, while providing exceptional flexibility to create eye-catching, dynamic and colorful lighting effects that can bring a property to life. The robust Vaya Flood offers a wide choice of mono colors with a simple on-off switch and changing colors with a standard DMX512 controller. It is also extremely easy to install and aim.

www.philips.com/catalog

Vaya Flood	
Type	BCP410
Power	40 W
Beam angle	15 or 30°
Luminous flux	RGB: 740 lm (all colors on full), white: 1130 lm
Correlated Color Temperature	RGB / Mono (Warm White 3000 K, Neutral White 4000 K, Red, Green, Blue, Amber)
Color Rendering Index	80 typical, 70 minimum (white version)
Maintenance of lumen output - L70	50,000 hours at T_a= 25°C (White)
Operating temperature range	-40 to +35°C
Optic	Narrow beam angle 15° Medium beam angle 30°
Material	Housing: die-cast aluminum, powder-coated finish Optical cover: UV-stabilized polycarbonate
Color	Philips dark grey, 10714

Vaya Flood



BCP410

MASTER City White CDO TT Plus and MASTER CosmoWhite CPO T – white range extension

Many people living in cities have indicated that urban-lighting upgrades to white light make them feel better and safer. With the advent of lamp types such as MASTER City White and MASTER CosmoWhite, with their attractive white light, such upgrades are becoming an essential element in generating well-being in urban centers.

The MASTER City White CDO and MASTER CosmoWhite CPO families both offer highly efficient white light. MASTER City White is mainly intended for relamping / uplamping of existing SON installations to white light, while MASTER CosmoWhite is designed for new installations offering the most efficient white light with the lowest total cost of ownership. They can be used in city centers, shopping centers and pedestrian areas, as well as in residential areas for road lighting and floodlighting.
With the completion of the 45W version full dim to 30W, the Cosmo White range now fully dimmable to maximize energy reduction. The CosmoWhite range has also been extended with the addition of a cool-white (4000 K) solution.

www.philips.com/catalog

White light solution			
Type	CDO TT 70W CDO-TT Plus 70W/828 E27	CDO TT/ET CDO-TT Plus 100W/828 E40	CDO TT/ET CDO-TT Plus 150W/828 E40
Light output	7500 Lm	10700 Lm	16500 Lm
Luminous efficacy	103 Lm/W	109 Lm/W	110 Lm/W
Light color	2750 K	2800 K	2780 K
Color Rendering Index	90	88	87
Lumen maintenance 12000h	75%	75%	75%
Operating position	any	any	any
Average lifetime	15 000 hours	15 000 hours	15 000 hours
Lampsurvival at 12000 Hrs (design spec)	90%	90%	90%
Wattage Rated	73W	98W	148W

Cosmo Range extension			
Type	CPO TW 60W/840 PGZ12	CPO TW 90W/840 PGZ12	CPO TW 140W/840 PGZ12
Light output	6600 Lm	9900 Lm	16100 Lm
Luminous efficacy	110 Lm/W	110 Lm/W	115 Lm/W
Light color	4000 K	4000 K	4000 K
Color Rendering Index	80	80	80
Lumen maintenance 12000h	80%	80%	80%
Operating position	Horizontal preferred	Horizontal preferred	Horizontal preferred
Lampsurvival at 12000 Hrs (design spec)	90%	90%	90%
Wattage Rated	60W	90W	140W

Koffer^2 LEDGINE – the road to sustainable future

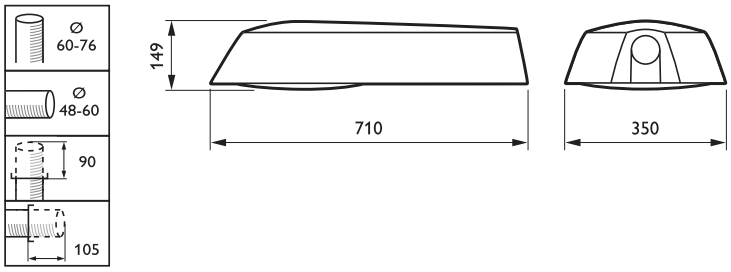
When it comes to lighting residential streets, municipal authorities face a dual challenge – to ensure people's safety while saving energy and driving down cost of ownership. This calls for functional luminaires that are energy-efficient and require very little maintenance.

The stylish, minimalist Koffer^2 100 LEDGINE is such a solution, its outstanding lighting quality (LEDGINE inside), energy efficiency and very low maintenance meeting all the needs of today's road users and operators. And its LEDGINE module is easy to upgrade, ensuring continued savings far into the future.

www.philips.com/catalog

Koffer[2] LEDGINE	
Type	BGP100 GreenLine
Light source	LEDGine, integral LED-module
Power	min 30 W
Luminous flux	min 2000 lm, max 7200 lm
Correlated Color Temperature	Warm White 3000 K Neutral White 4000 K Cool White 5700 K
Color Rendering Index	70
Maintenance of lumen output - L90	35,000 hours
Operating temperature range	-25 to +35°C
Driver	Integrated
Dimming	CLO Lumistep
Optic	LEDGine Medium (DM), Wide (DW), ExtraWide (DX), Comfort (DC), Wet Road (DK)
Optical cover	Flat glass
Material	Housing: die-cast aluminum
Color	Light grey, RAL 7035 or silver grey (like RAL 9006) as standard Other RAL or AKZO colors available on request
Option	Photocell: NemaSocket Fuse

Koffer[2] LEDGINE



BGP100

Mini 300 Stealth LED – power, elegance and savings

Mini 300 Stealth LED is a range of elegant, extremely efficient luminaires that can be used to illuminate large areas with direct and/or indirect light. Designed around the latest LED technology, it offers significant energy and maintenance savings compared with conventional HID systems. Thanks to its highly efficient LEDGine area optics, it can be used for area lighting applications that have traditionally required HID-equivalent power levels.

Integrated controls are available as an option, enabling additional energy savings. And LED upgrades can be easily incorporated, making this a truly future-proof solution. Mini 300 Stealth LED is suitable for pole mounting (BGP333), wall mounting (BWP333) or floodlighting (BVP333).

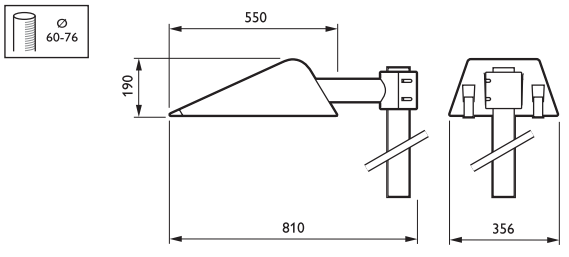
www.philips.com/catalog

Mini 300 Stealth LED	
Type	BGP333 (pole-mounted floodlight luminaire) BWP333 (wall-mounted floodlighting luminaire) BVP333 (floodlighting luminaire)
Light source	Integral LED-module
Power	GreenLine (GRN): 48, 57, 65, 74, 85 or 96 W EconomyLine (ECO): 72, 86, 99, 113, 129 or 146 W
Beam angle	Area 60° or 360°. Road-medium, Road-wide, Road-extra wide or Road-comfort
Luminous flux	GreenLine (GRN): 4200, 5040, 5880, 6720, 7560 or 8400 lm EconomyLine (ECO): 5922, 7106, 8291, 9475, 10,660 or 11,844 lm
Correlated Color Temperature	GreenLine (GRN): 4000 K EconomyLine (ECO): 5600 K
Color Rendering Index	70
Maintenance of lumen output - L90	GreenLine (GRN): 35,000 hours at 25°C EconomyLine (ECO): 22,000 hours at 25°C
Operating temperature range	Outdoor: -30 to +45°C Indoor: -30 to +35°C
Driver	Built-in (self ballasted LED-module)
Dimming	Dynadimmer or SDU01/11S
Optic	Asymmetrical area (A), symmetrical area (S), road-medium (DM), road-wide (DW), road-extra wide (DX) or road-comfort (DC)
Optical cover	Glass, flat
Material	Housing and front frame: high-pressure, die-cast aluminum. Cover: thermally toughened glass, 3 mm thick (held by the front frame) Lens: clear acrylic. Mounting bracket: high-pressure die-cast aluminium. Clips: stainless steel
Color	Silver (SI), black (BK), white (WH) or grey (GR). Other RAL colors available on request

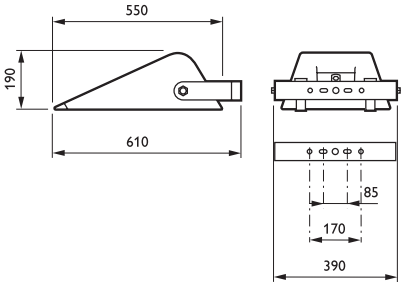
Mini 300 Stealth LED BGP333

Mini 300 Stealth LED BWP333

Mini 300 Stealth LED BVP333



BGP333



BVP333

For more information

www.philips.com/catalog

Data subject to change
Printer: Print Competence Company - 03.2011

This booklet is printed on Magno Satin 135 gsm (inside) and Mango Satin 300 gsm (cover) manufactured at Sappi Fine Paper Mills, which are ISO 9001:2000 and ISO 14001-certified and EMAS-registered. The pulp used for Mango is bleached chlorine-free.
The timber the pulp is made from is sourced from sustainably managed forests. Sappi Fine Paper Europe (SFPE) has a group Chain of Custody Certification for its entire European operations under both the Forest Stewardship Counsil (FSC) and the Programme for the Endorsement of Forest Certification Systems (PEFC) schemes.

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