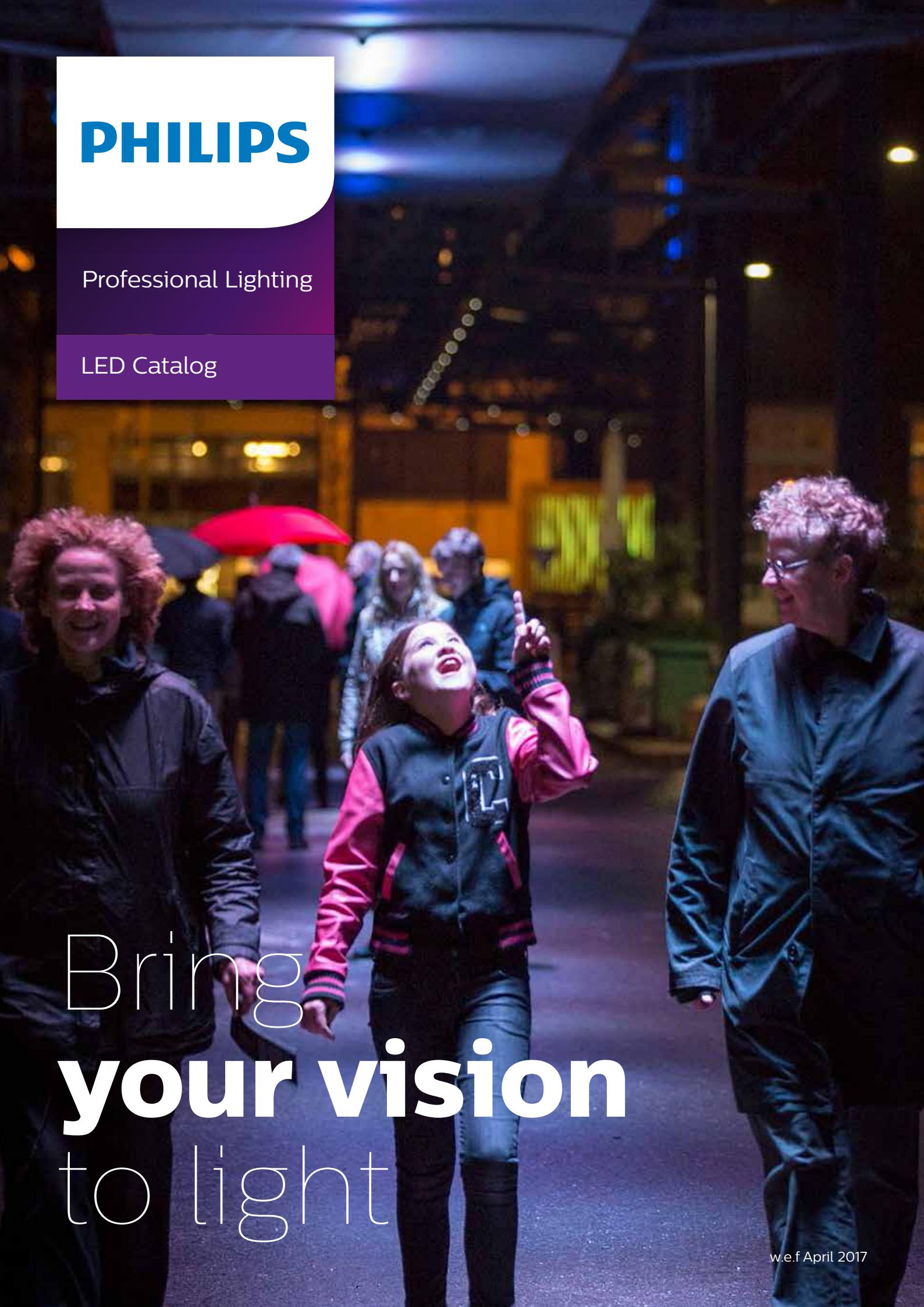


**PHILIPS**

Professional Lighting

LED Catalog

A nighttime photograph of a group of people walking down a city street. In the foreground, a young woman with curly hair, wearing a pink and black jacket, looks up and points towards the sky with a smile. Behind her, several other people are walking, including a person with a red umbrella. The scene is lit by various streetlights and building lights, creating a vibrant, colorful atmosphere.

Bring  
**your vision**  
to light

w.e.f April 2017



# Philips LED lighting

Leading the market today,  
**transforming the future.**

Philips has been designing, developing and manufacturing LED lighting products resulting in a far reaching intellectual property portfolio and more than 20,000 time-tested installations. We have strengthened our leadership position and revenue generation in the LED Lighting market with solutions across segments, office, retail, industry and public. We are leaders in technology and product performance in the LED lighting industry and are a confident choice of lighting specifiers across the globe.



# **State of the art**

## Lighting Innovation Center

The brightest brains in the country work together on the latest technology platforms to develop the most optimized solution for the customer using cutting edge design software and analysis tools. The design center is equipped with the state of the art measurement, simulation and validation facility to check the designs, prototypes, safety and protection parameters and finally, the finished products at every step, from conceptualization to delivery.

**Designed for Indian conditions, tested at our state of the art, Lighting Innovation Center, Noida.**



# Delivering the best performance and quality

## Lifetime & reliability

Philips applies best known methods for handling issues associated with thermal management (source lifetime), optics (beam uniformity, quality and output), energy management (high energy efficiency, low power consumption) and ease of installation (contractor friendly) to deliver industry leading results.

## Color consistency and light quality

Optibin®, our proprietary production binning optimization process, ensures consistent performance from fixture to fixture. Our strategic relationships with the leading LED source suppliers also give us access to the best LED source binning and source performance. As a result, our LED lighting products generate the truest color and the best light intensity.

## Uniform beam quality

Philips' optics expertise gained from over a decade of LED lighting product development enables all our products to deliver uniform beam quality, with no hot spots or unevenness, ensuring optimal light distribution.

## Deliver required specifications

By virtue of our close collaboration with standards and regulatory agencies, today we are leading the way to develop and introduce standards for LED lighting products. Our products are tested in accordance with industry standards at accredited laboratories.

## Validation and testing

Philips performs extensive validation and environmental testing using accredited facilities to ensure product quality. Rigorous tests include thermal cycling, humidity, and water immersion to verify the functionality and robustness of products under various extreme environmental conditions.

## Complete system approach

Philips designs, develops, and manufactures complete system solutions: everything needed to power up and control intelligent LED illumination. This approach assures that the entire system is optimized to work together and meets regulatory compliance as well as provides a high level of flexibility in the system.



## Photometry lab

- Biggest Lab in Asia with latest facilities
- Gonio photometer measures the light distribution of luminaires in a 3-dimensional space
- Provides 98% accuracy



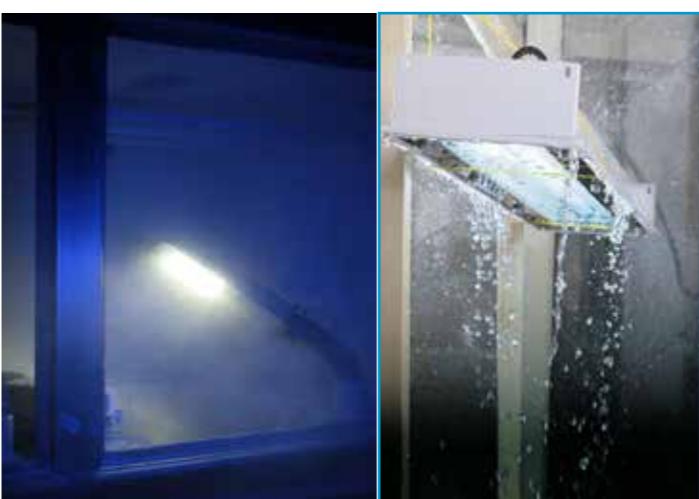
## Thermal and electrical lab

- Luminaires tested as per IEC and IS standards
- Fully equipped to conduct all relevant tests.
- Ensures superior product quality



## LED drivers and solar charge controller development lab

- Fully equipped for CE compliance testing
- Testing facilities incorporate all IEC standards
- Test facilities and equipments to monitor performance, safety, surge, EMI-EMC, thermal management, solar panel simulators etc.



## Dust and water ingress facility

- All products are rigorously tested
- The facility covers entire range of ingress protection and is instrumental for customer acceptance tests.

# Transform your space with lighting

**Light has a major impact on our wellbeing, moods and emotions. It inspires, attracts, communicates, sets the scene and enhances productivity and comfort in office.**

Each year, we at Philips invest heavily in research to gather end-user insights, further deepening our understanding of people's needs, desires and aspirations. Combining these insights with our technological leadership, we are able to deliver meaningful innovations, advanced energy efficient products and systems that are designed around people and are very easy to experience.



Indoor commercial

Pg 12



Indoor industrial

Pg 48



Public lighting

Pg 66



LED lamps

Pg 108



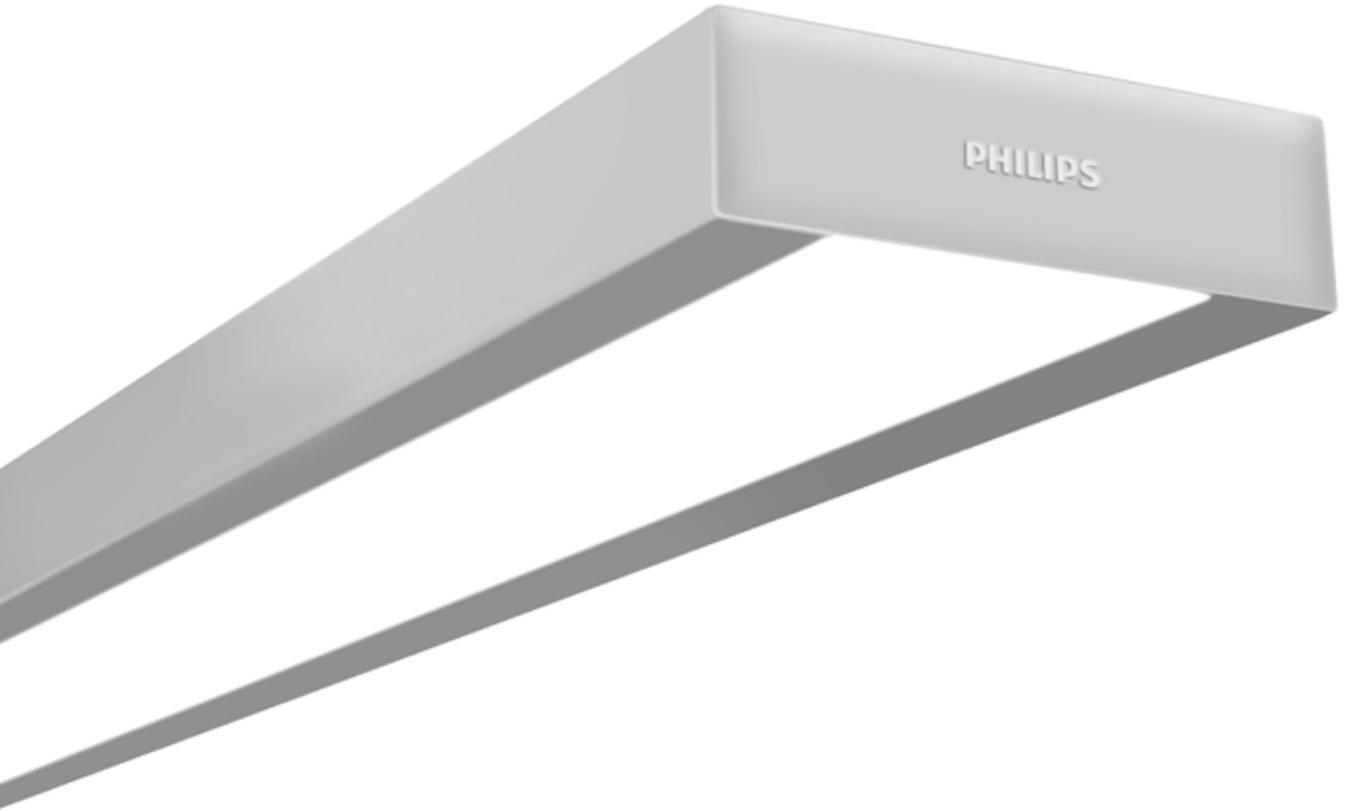
Controls

Pg 114

# Indoor Commercial

## Table of Contents

<b>Product</b>	<b>Pg</b>
PureLine	14
Chopstick	16
Sereno	18
LineLight	20
PowerBalance	22
Dayline	24
SmartGlow	26
FullGlow Gen 2	28
GreenSquare	30
Cirrus	32
Cirrus Mini Pro	34
GreenLEDi	36
GreenPerform	38
GreenLED Ultima	40
GreenSpot	42
GreenLED Surface	44
EcoAccent	46



# PureLine

The PureLine family of luminaires gives you compromise-free office illumination. It offers both general and office area lighting in identical enclosures. The range brings together high-flux lighting with a homogeneous optical system without making any concessions on energy efficiency design.

## Office luminaire that does it all

### One look, many applications

These stylish luminaires give you all the benefits of LED lighting in an enclosure that lets you apply the same luminaire format in cell offices, open plan offices, meeting rooms and the reception area.

### Designed to perform

With its long product lifetime and a good energy-to-light ratio of up to >100 lm/W, the range is a good choice for long-term savings. And with a light output that ranges from 3400 lm to 7800 lm, you can always find the best configuration for all the areas in your building.

### A recipe for success

PureLine is the future-proof luminaire that does it all. And to easily get more control of the light, PureLine offers luminaires with built-in ActiLume sensors. This lets you optimize visual comfort, enable daylight harvesting, detect motion in a room and maximize energy savings.

## Key features

- System efficacy >100 Lm/W
- New light platform & optical design reduce 20% glare
- High quality light, CRI=80

## Technical specifications

Type	Suspended Standalone		Suspended Continuous	
System Wattage (W)	37	32	37	32
IP Rating	IP20		IP20	
Lumen Output (lm)	3900	3400	3900	3300
System Efficacy (lm/W)	105		103	
Color Temperature (K)	4000, 6500		4000, 6500	
CRI	80		80	
Housing	High quality extruded aluminum		High quality extruded aluminum	
Cover	High efficiency diffuser		High efficiency diffuser	
Mounting	Suspended		Suspended	
THD	<10%		<10%	
PF	>0.9		>0.9	
Operating Voltage	140-270V		140-270V	



Applications

Open office



## Chopstick

Chopstick offers small size with big lighting performance and a price point that makes it ideal to use in many different types of spaces.

### Balance of light, form and materials

#### Architects delight

Sleek minimalistic design providing more uniform luminous environments with optimal energy efficiency.

#### Super efficient

Chopstick provides superior efficacy of 110 lm/W.

#### Perfect distribution

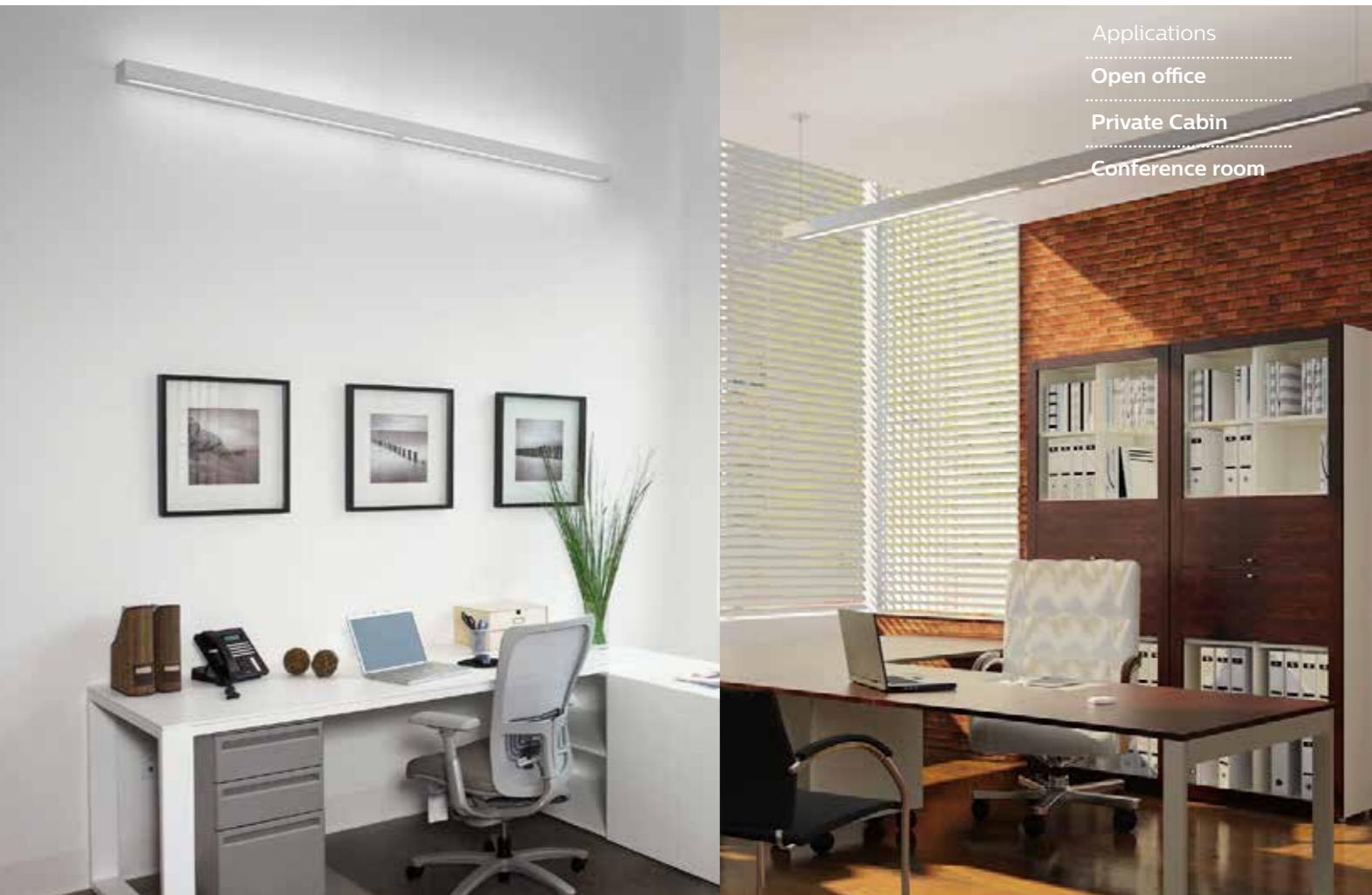
Chopstick LED offers a semi-indirect lighting distribution ideal for open environments and smaller private spaces. High efficacy and high peak zenith distribution results in the ability to spread distance between fixtures.

### Key features

- Wide-spread lighting distribution
- Efficacy up to 108 lm/W
- Available in 4 ft and 8 ft modules

### Technical specifications

Type	Chopstick	
System Wattage (W)	43	32.5
IP rating	IP20	
Lumen Output (lm)	4800	3600
System Efficacy (lm/W)	110	
Color Temperature (K)	6500	
CRI	80	
Housing	Metallic CRCA powder coated	
Cover	High efficiency diffuser	
Mounting	Suspended, Wall	
THD	<10	
PF	>0.9	
Operating Voltage	220-240V, 50/60 Hz	





# Sereno

Philips Sereno, a range of office luminaires with a wide range of optics specially designed to meet the highest standard of work place lighting. Sereno luminaires offer the latest technology for high comfort and optical efficiency in a miniature profile. Sereno is available in surface/ suspended and wall mounted versions in a variety of dedicated optics such as D8 Mirrors, Opal diffuser and indirect optics. Sereno offers the best combination of performance, energy efficiency, aesthetics and flexibility of designing.

## Balance of light, form and materials

### Office standard compliant

Sleek minimalistic design providing more uniform luminous environments with optimal energy efficiency.

### Best in class LPD

With high Light Power Density, this luminaire provides high levels of energy efficiency.

### Superior visual comfort

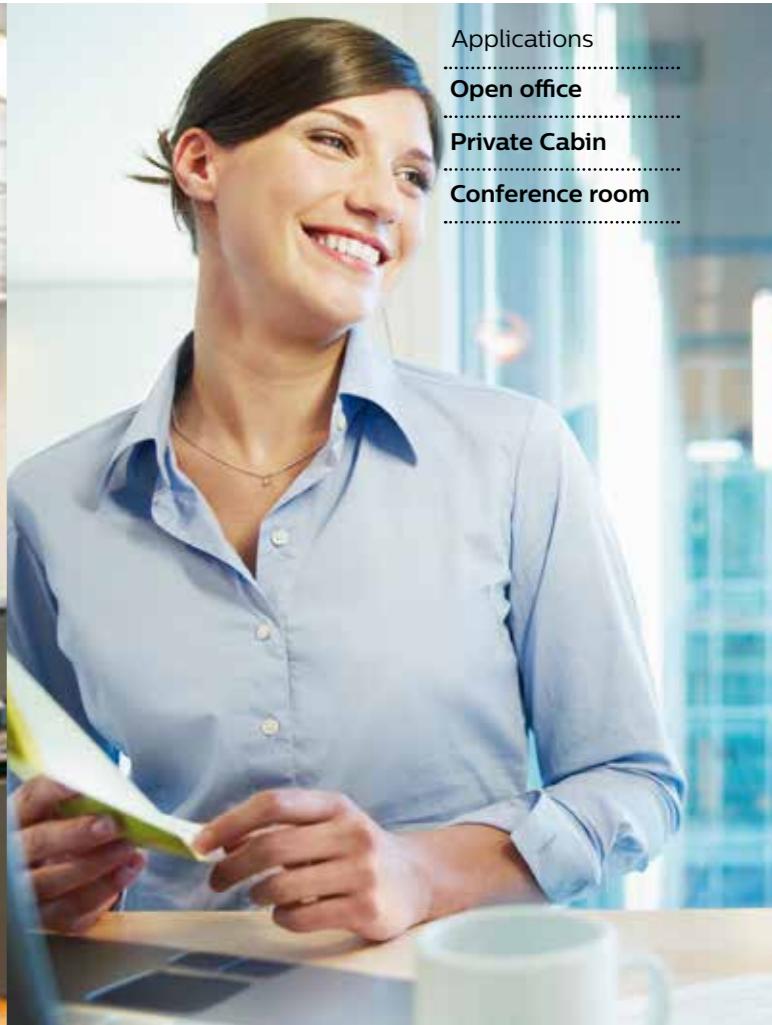
This luminaire helps increase productivity with its superior visual comfort lighting.

## Key features

- Energy efficient
- Ultra flat light with only 47 mm in height
- Maintenance friendly

## Technical specifications

Type	Sereno
System Wattage (W)	28
IP Rating	IP20
Lumen Output (lm)	3000
System Efficacy (lm/W)	>105
Color Temperature (K)	4000, 5000
CRI	80
Housing	Extruded aluminum housing
Cover	High efficiency diffuser
Mounting	Suspended
THD	<10
PF	>0.9
Operating Voltage	220-240V, 50/60 Hz



### Applications

Open office

Private Cabin

Conference room



# LineLight

LineLight lighting solution is linear lighting solution suitable for use in variety of indoor applications. It's sleek design, elegant looks complement any interior architecture and visual effect. LineLight offers unique flexibility of continuous mounting or standalone mounting in lengths of 4ft and 8ft.

## Sleek and elegant

### Continuous mounting

Extruded aluminium housing for continuous mounting ensures no sagging.

### Driving performance beyond the edge

LineLight delivers high performance and a quality light output.

### Perfect distribution curve

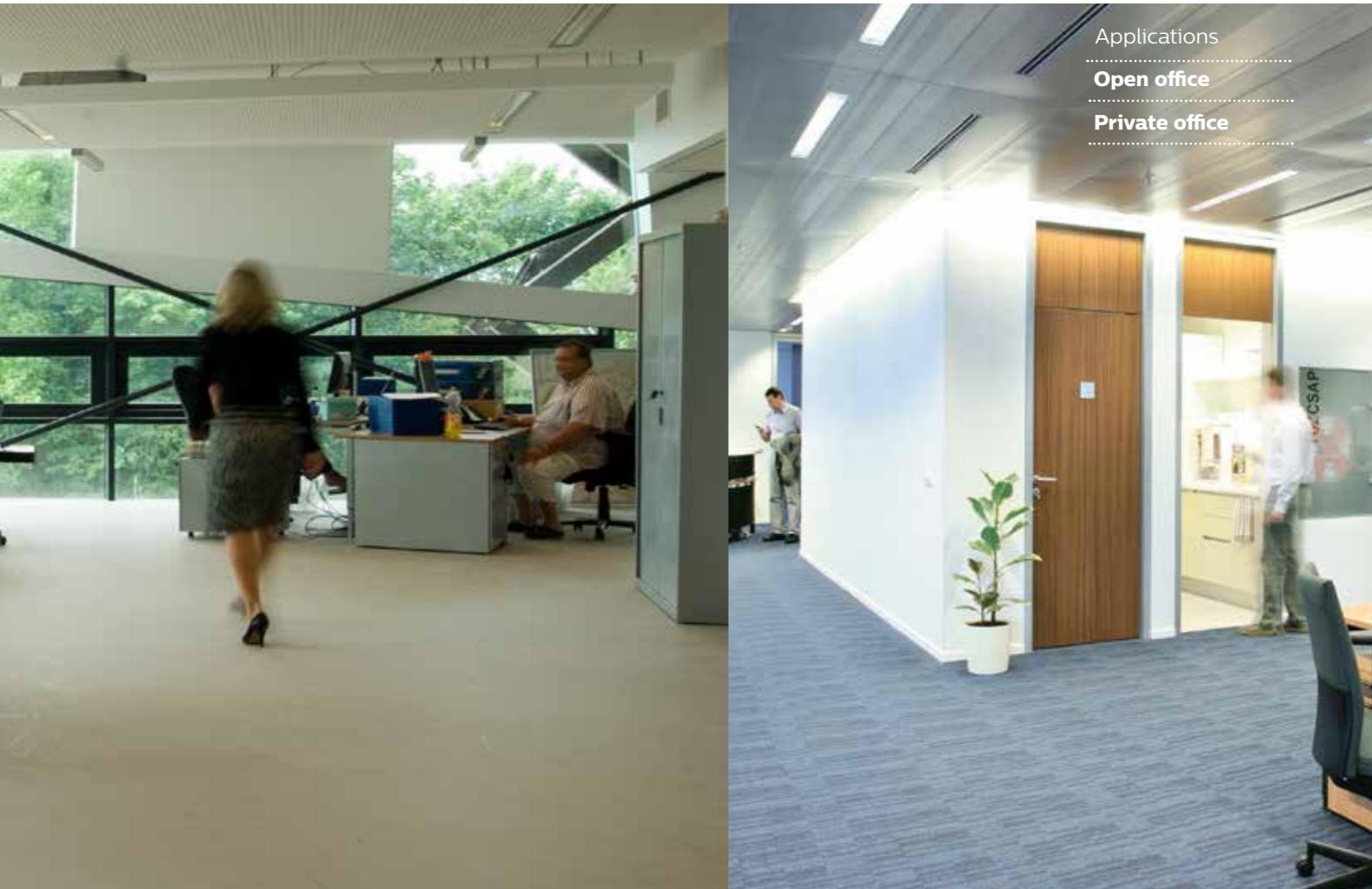
LineLight offers unparalleled distribution & brightness to create a balanced luminous environment, with smooth & even gradients of light throughout the space.

## Key features

- Comes in 4 ft and 8 ft modules
- Maintenance free
- Eco-friendly

## Technical specifications

Type	RC 311
System Wattage (W)	28
IP Rating	IP20
Lumen Output (lm)	2200
System Efficacy (lm/W)	80
Color Temperature (K)	4000, 6500
CRI	80
Housing	White/ Grey
Cover	High efficiency diffuser
Mounting	Recessed
THD	<10
PF	>0.9
Operating Voltage	170–270V





# PowerBalance

PowerBalance is Philips' most energy-efficient office specification compliant LED luminaire. It more than halves energy costs compared to a high efficiency T5 solution, and the LED system has a longer lifetime. This results in significantly lower operational costs, ensuring a payback that meets the needs of the specification market.

## Best in class visual comfort

### Smart pyramid optics - UGR<19

The luminaire offers low direct glare which results in enhanced visual comfort.

### Low indirect glare

The luminaire provides luminance below the angle of 65°, thereby reducing indirect glare in an office environment.

### High color rendering

With CRI >80, the luminaire renders color naturally and makes people comfortable.

## Key features

- Highly efficient, efficacy >90 lm/W
- Compact look and feel
- Premium material and finish

## Technical specifications

Type	RC360B
System Wattage (W)	29.5
IP Rating	IP20
Lumen Output (lm)	3400
System Efficacy (lm/W)	115
Color Temperature (K)	4000
CRI	80
Housing	Powder coated steel
Cover	High efficiency diffuser
Mounting	Recessed
THD	<10
PF	>0.9
Operating Voltage	220-240V, 50/60 Hz



### Applications

Open office

Meeting room



# Dayline

Dayline is an efficient luminaire which saves up to 65%\* energy as compared to 2 x PLL 36W luminaire. It ensures long, maintenance free life and comes with DALI dimming options. Dayline is a perfect combination of innovative design and efficient LED technology.

## Efficient lighting. More Savings

### High energy savings

Dayline offers high energy savings up to 65%\*.

### High lumen efficacy

With efficacy of up to 100 lm/W, the luminaire is highly efficient.

### Maintenance friendly

With Dayline, operational costs are reduced as it requires no maintenance.

## Key features

- High quality light, CRI=80
- Long life of up to 50,000 hours
- Soft opal diffuser provides high visual comfort
- Eco-friendly

## Technical specifications

Type	RC240B LED
System Wattage (W)	34
IP Rating	IP20
Lumen Output (lm)	3400
System Efficacy (lm/W)	100
Color Temperature (K)	4000, 5000, 6500
CRI	80
Housing	Polyester power coated
Cover	High efficiency diffuser
Mounting	Recessed
THD	<10%
PF	>0.9
Operating Voltage	220-240V, 50/60 Hz



Applications

Private office

Open office

Private office



## SmartGlow

SmartGlow is an intelligent office lighting system with an inbuilt sensor thus avoids unwanted hassle of creating space for sensors. The inbuilt sensor helps save additional 40%\* energy as compared to other LED panels. The luminaire also provide 360° coverage around 8 ft area.

High on aesthetics, SmartGlow delivers superior performance, is easy to install and has a long life of 50000 hours. It also has very good payback period of less than 1.5 years.

### Intelligent office lighting system

#### Occupancy Sensor

Automatically detects presence, switches on when office is occupied and turned off when vacated.

#### Volumetric distribution

This luminaire works at 8ft sensor height and covers 360 degree area

#### 40% additional savings

The inbuilt occupancy sensor automatically regulates lighting as per the presence detected which helps save up to additional 40% energy.

### Key features

- Payback of <1.5 years\*
- High efficacy, 100 lm/W
- Long life, 50k burning hours

### Technical specifications

Type	RC383B	
System Wattage (W)	28	37
IP Rating	IP 20	
Lumen Output (lm)	2850	3650
System Efficacy (lm/W)	100	
Color Temperature (K)	4000, 6500	
CRI	80	
Housing	CRCA	
Cover	High efficiency diffuser	
Mounting	Recessed	
THD	<10%	
PF	>0.9	
Operating Voltage	220-240V, 50/60 Hz	





## FullGlow

FullGlow is a beautifully designed luminaire which is bound to delight the occupants with refreshing and comfortable experience through its pure form and glare-free light. It comes in two versions – standard and high efficiency. With up to 50%\* energy savings and maintenance free operation, this product is an owner's delight.

### Inspiring and efficient

#### Very high efficacy

Efficacy of >95 lm/watt ensures maximum savings.

#### Tailored to suit different needs

This luminaire comes in two versions, standard and high efficiency, offering flexibility for varied applications.

#### EMC & EMI compliant drivers

EMC ensures that operation does not influence the electromagnetic environment to the extent that the functions of other devices and systems are adversely affected.

### Key features

- 50%\* energy savings
- High quality light, CRI=80
- No maintenance

### Technical specifications

Type	RC380 HE	RC380 HE	RC380 G3 LL	RC380 G3 HL
System Wattage (W)	30	39	27	32
IP Rating	IP20	IP20	IP20	IP20
Lumen Output (lm)	3000	3400	2900	3400
System Efficacy (lm/W)	100	87	110	110
Color Temperature (K)	4000, 6500	4000, 6500	4000, 6500	4000, 6500
CRI	80	80	80	80
Housing	Metallic CRCA powder coated			
Cover	High efficiency diffuser	High efficiency diffuser	High efficiency diffuser	High efficiency diffuser
Mounting	Recessed	Recessed	Recessed	Recessed
THD	<10%	<10%	<10%	<10%
PF	>0.9	>0.9	>0.9	>0.9
Operating Voltage	220-240V, 50/60 Hz	220-240V, 50/60 Hz	220-240V, 50/60 Hz	220-240V, 50/60 Hz



Applications

Open office



## GreenSquare

GreenSquare provides an optimum visual environment for office work. It provides the right light levels to see printed, handwritten or on-screen documents clearly, without causing glare and fatigue. By providing uniform illumination and having no significant light depreciation over time, GreenSquare ensures enhanced productivity in your office for years together with a refreshing and comforting experience.

### Affordable and reliable

#### Attractive payback period

GreenSquare recovers its cost in a very short period. Overall TCO is low.

#### Easy to install

It replaces conventional 2x2 luminaires with ease as no separate structure/renovation in ceiling is required.

#### Elegant ceiling look

GreenSquare give the ceiling an aesthetically enhanced look.

### Key features

- 40%\* energy saving
- Maintenance free
- Long life of 40000 hours\*

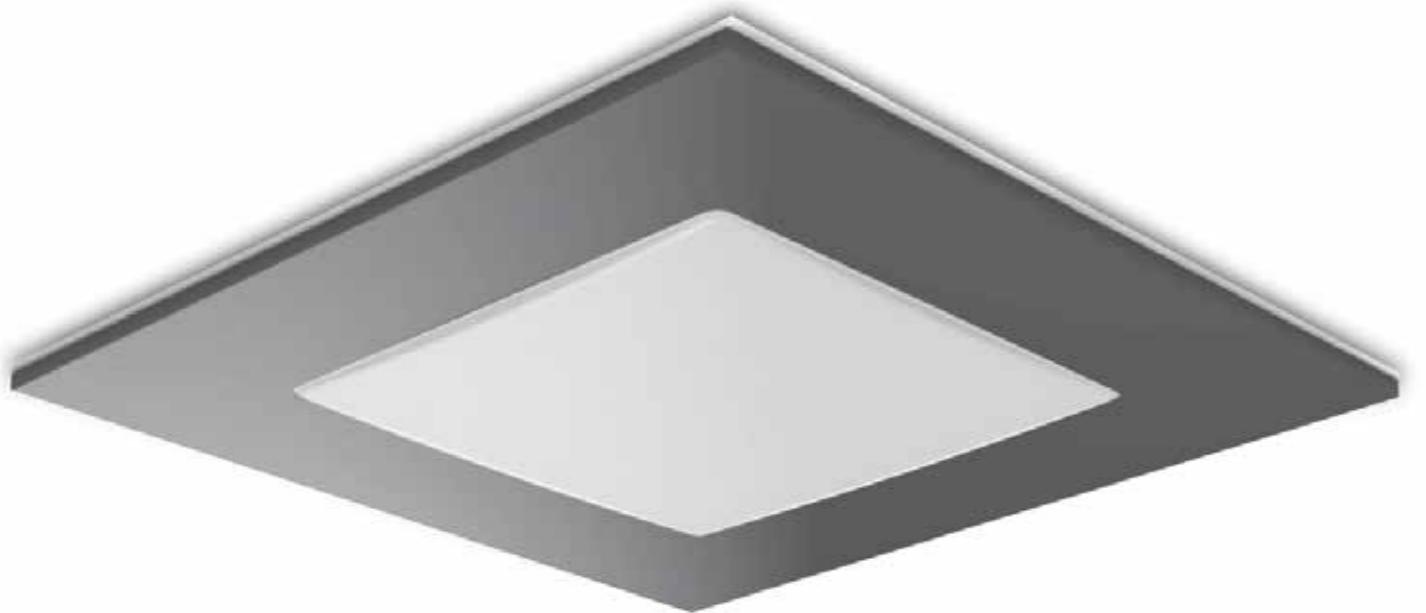
### Technical specifications

Type	RC140
System Wattage (W)	33
IP Rating	IP20
Lumen Output (lm)	3100
System Efficacy (lm/W)	75
Color Temperature (K)	4000, 6500
CRI	80
Housing	Metallic CRCA powder coated
Cover	High efficiency diffuser
Mounting	Recessed
THD	<10%
PF	>0.9
Operating Voltage	220-240V, 50/60 Hz



Applications

Open office



## Cirrus

Cirrus is an office general lighting solution which offers excellent energy saving and maintenance-free operation. This luminaire has a slim design which is suitable for recessed mounted application for office spaces. Powered by a long-lasting LED light source and high efficiency optical system, this luminaire offers uniform and uninterrupted lighting.

### Efficient and quality lighting

#### Higher visual comfort

Highly efficient optical system delivers superior visual comfort.

#### Improved vertical illumination

Enables comfortable working environment.

#### High energy saving

With long lasting LED light source, the luminaire delivers high energy savings.

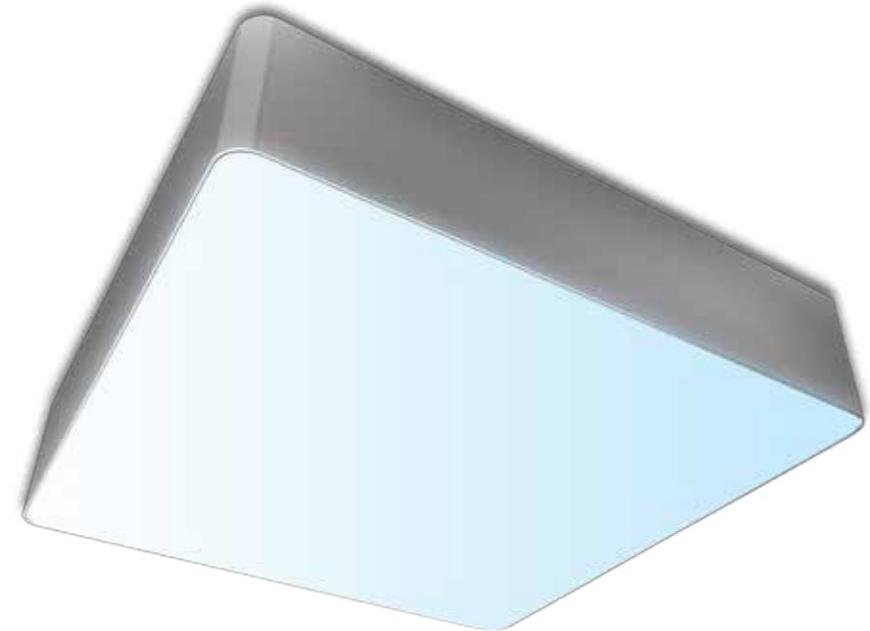
### Key features

- Consistent light output
- Long life
- CRI=80

### Technical specifications

Type	RC/SM 365/366
System Wattage (W)	38
IP Rating	IP20
Lumen Output (lm)	3300
System Efficacy (lm/W)	90
Color Temperature (K)	4000, 5000, 6500
CRI	80
Housing	Metallic CRCA powder coated
Cover	High efficiency diffuser
Mounting	Recessed/Surface
THD	<10%
PF	>0.9
Operating Voltage	220-240V, 50/60 Hz





## Cirrus Mini Pro

A square ceiling mounted LED luminaire suitable for replacing any 2x18W CFL and 2x26W conventional down light. This product comes in two options -1100 lumens and 1600 lumens, covering a wide range of applications.

Providing high energy savings (> 50%\*) and up to 5 times more life compared to conventional luminaires, Cirrus Mini offers better aesthetics, comes in two body colors and two color temperatures - NW/CW.

### Efficient light. More savings.

#### Attractive payback

Effective replacement for conventional CFL luminaires results in significant saving and reduced operational costs.

#### Good light quality

Highly efficient optical system ensures an effective low glare lighting.

#### Easy installation

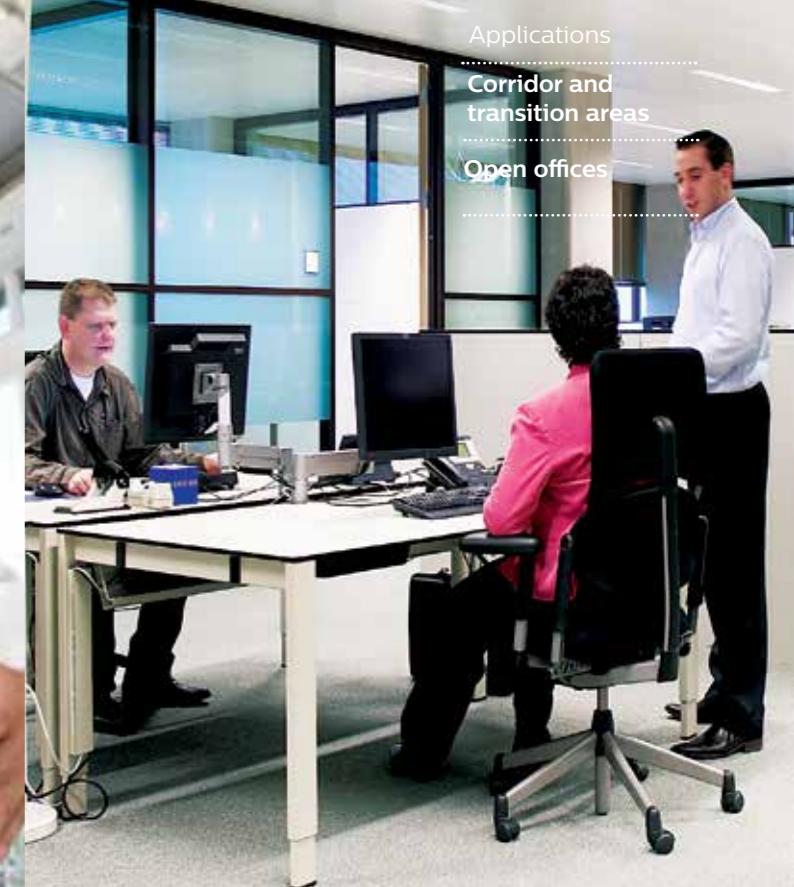
Compact product which is easy to mount and install.

### Key features

- Consistent light output
- Long life
- CRI=80

### Technical specifications

Type	SM200C	
System Wattage (W)	12	20
IP Rating	IP20	
Lumen Output (lm)	1100	1600
System Efficacy (lm/W)	>60	
Color Temperature (K)	4000, 6500	
CRI	80	
Housing	Metallic CRCA powder coated	
Cover	High efficiency diffuser	
Mounting	Surface	
THD	<10%	
PF	>0.9	
Operating Voltage	140 - 270V, 50/60 Hz	





## GreenLEDi

GreenLEDi range is a break through offering which combines modern product design, the latest LED technology and reliable heat management to deliver a long lasting efficient solution. Offering substantial energy savings compared to CFL/halogen, good light quality, complete stylistic freedom and significant maintenance savings, the product is an ideal value for money and replacement for conventional CFL options.

### Compact and efficient

#### Compact integral design

With integrated driver, this luminaire is easy to install.

#### High savings

This luminaire offers 50%\* savings over CFLs.

#### Highly efficient

GreenLEDi comes with advanced optics for glare free lighting.

### Key features

- Long life of 30000\* hours
- No maintenance
- Eco friendly

### Technical specifications

Type	GreenLEDi					
System Wattage (W)	7	10	13	15	18	
IP Rating	IP20					
Lumen Output (lm)	600	1000	1300	1500	2000	
System Efficacy (lm/W)	>85					
Color Temperature (K)	3000, 4000, 6500					
CRI	>80					
Housing	Heat sink - die cast					
Cover	High quality diffuser					
Mounting	Recessed					
THD	<10%					
PF	>0.9					
Operating Voltage	220V-240V/50, 60Hz					



- Applications .....  
 Reception .....  
 Conference room .....  
 Retail stores .....



## GreenPerform

GreenPerform is an innovative lighting solution which offers a wide range of dimming options for workplaces. The product has options in all variants and all types of dimming solutions like Phase -Cut, Analog and DALI. It offers inherent benefits of LED products such as high energy saving of up to 50%\* and up to 5 time more life. The range is available from 600 lumens to 2000 lumens making it an efficient and high performance option.

### Performance and advanced controls

**Exhaustive range with dimming both analog and phase cut**

The range of products offer varied dimming solutions like Analog, Phase-cut and DALI. The product range is available in various dimensions and lumen outputs with advanced controls.

**High efficiency of more than 85 lm/W**

The range helps in saving up to 50% energy and up to 5 times more life over CFL downlighters making it an efficient solution with high performance.

**Longer life with 50K hours**

With higher efficiency and energy saving the GreenPerform also results into a longer life with up to 50,000 hours.

### Key features

- 50%\* energy savings
- No maintenance
- Eco-friendly

### Technical specifications

Type	GreenPerform				
System Wattage (W)	6.5	10.5	12	15.5	22
IP Rating					IP20
Lumen Output (lm)	600	1000	1300	1600	2200
System Efficacy (lm/W)					>85
Color Temperature (K)					3000, 4000, 6500
CRI					>80
Housing					Pressure die cast aluminium
Cover					High efficiency diffuser with more than 85% transmittance
Mounting					Recessed
THD					<10%
PF					>0.9
Operating Voltage					220V-240V, 50/60 Hz





# GreenLED Ultima

Green LED Ultima is a slim downlighter with high lumen efficacy of 100 lm/W. It displays true colors with its high color rendering index of 80 and has a long life of 40000 hours.

## Performance in slim design

### Slim aesthetic design

Ultima adds aesthetics to the space with its slim lip design.

### Ultimate performance

High efficiency of 100 lm/w leading to best in class savings over conventional CFL downlight.

### Display true color

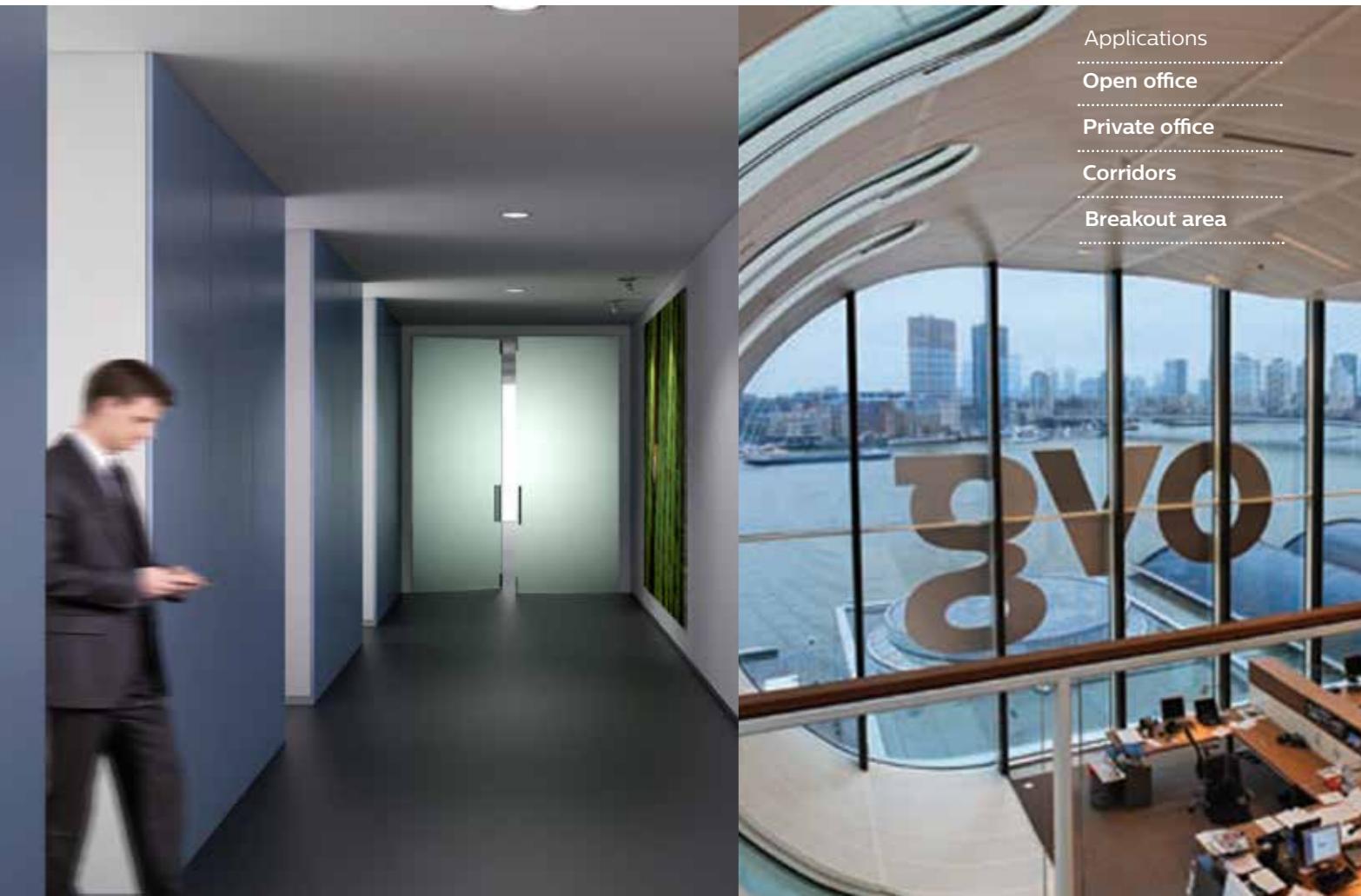
Powered with DuraMAX technology, Ultima gives durable brightness enriching true color of merchandise.

## Key features

- Long life of 40000\* hours
- High quality light
- Eco-friendly

## Technical specifications

Type	GreenLED Ultima	
System Wattage (W)	6.5	10.5
IP Rating	IP20	
Lumen Output (lm)	600	1000
System Efficacy (lm/W)	100	
Color Temperature (K)	3000, 4000, 6500	
CRI	>80	
Housing	Engineering plastic	
Cover	High efficiency diffuser	
Mounting	Recessed	
THD	<10%	
PF	>0.9	
Operating Voltage	220V-240V, 50/60 Hz	



### Applications

Open office

Private office

Corridors

Breakout area



# GreenSpot

GreenSpot family offers a choice of lamps or LED light sources as well as a variety of optics, accessories and color finishes. GreenSpot enables retailers to choose a lighting solution that meets their needs.

## Flexible, stylish and robust

### Multiple configuration options

GreenSpot comes in various configurations making installation easy and as per requirement.

### Suitable for accent general illumination

The luminaire serves multiple purpose, it can be used for both accent and general illumination.

### Brighter ceiling for livelier spaces

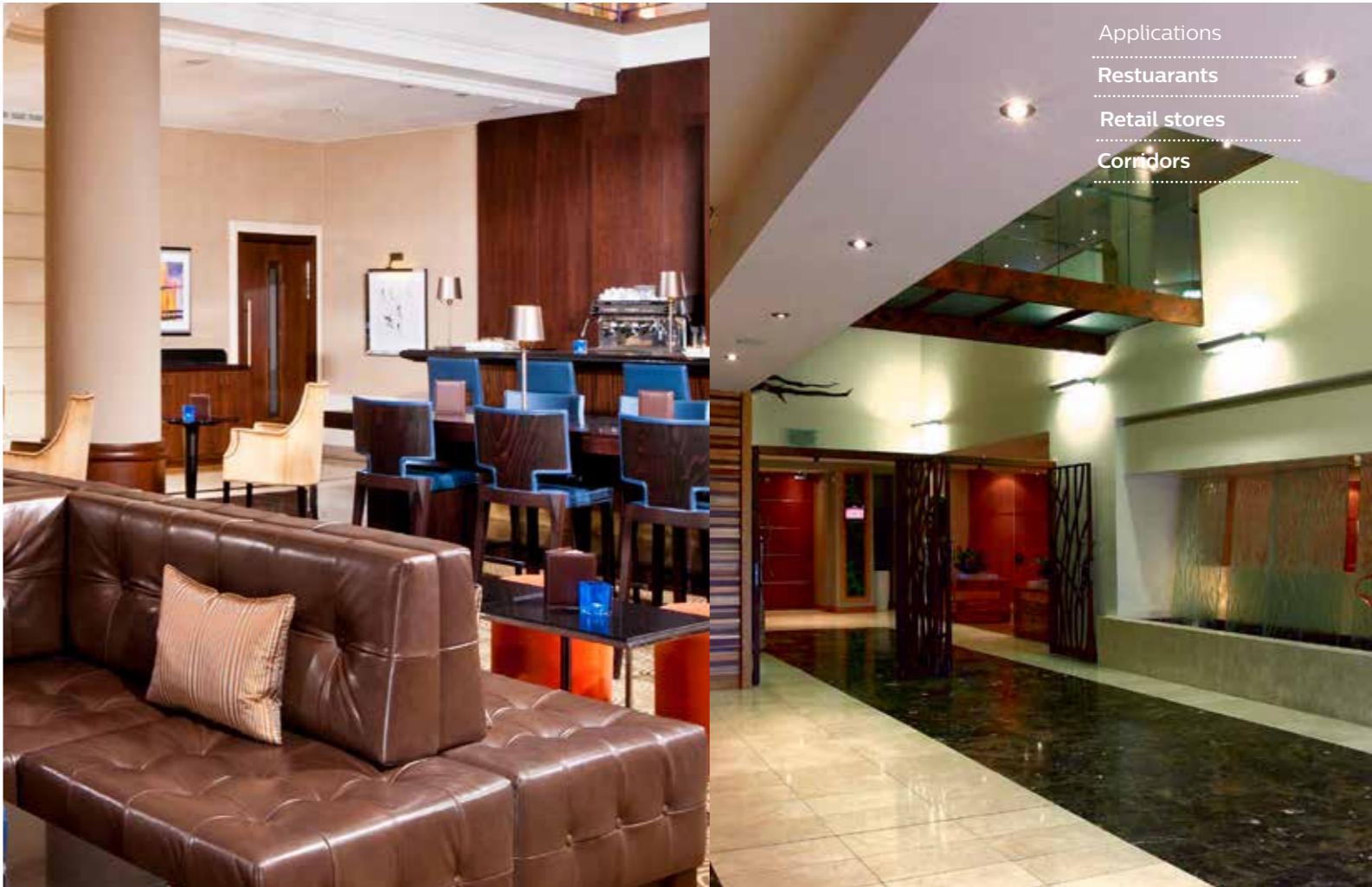
It keeps the ceiling bright making the space look large and bright.

## Key features

- Consistent light output
- Long life
- CRI>80

## Technical specifications

Type	GreenSpot Gen 2	
System Wattage (W)	7	15
IP Rating	20	
Lumen Output (lm)	600	1200
System Efficacy (lm/W)	>85	
Color Temperature (K)	3000, 4000, 5000	
CRI	>80	
Housing	Pressure die cast aluminium	
Cover	Clear	
Mounting	Recessed	
THD	<10%	
PF	>0.9	
Operating Voltage	220V-240V, 50/60Hz	





## GreenLED Surface

GreenLED surface is best suited for modern interiors. It offers all the benefits of regular downlighter like 50% energy saving, long life and maintenance free operation.

### Compact and efficient

#### Easy installation

Compact product which is easy to mount and install.

#### High savings

This luminaire offers 50%\* savings over CFLs.

#### Highly efficient

GreenLED surface comes with advanced optics for glare free lighting.

### Key features

- Consistent light output
- Long life
- CRI>80

### Technical specifications

Type	DN170
System Wattage (W)	15
IP Rating	20
Lumen Output (lm)	950
System Efficacy (lm/W)	>60
Color Temperature (K)	3000, 4000, 5000
CRI	>80
Housing	Pressure die cast aluminium
Cover	Clear
Mounting	Surface
THD	<10%
PF	>0.9
Operating Voltage	220V-240V, 50/60Hz





Variant

## EcoAccent

EcoAccent delivers powerful, good-quality accent lighting, enabling retailers to display their goods in the very best light. The track mounted EcoAccent is available in a choice of black and white finishes. The combination of efficient LED technology and a robust heat sink ensures that this is a reliable and long lasting solution.

### Enhancing retail experience

#### Excellent optical design

EcoAccent delivers light with better beam control & edge uniformity which ensures that the important features of the merchandise is highlighted and it creates a long lasting impact on the customer.

#### Higher visual comfort

High color rendering index of the luminaire ensures superior visual comfort

#### Wide range of beam angles

Wide range of beam angles, 120, 240 and 360, enables greater flexibility to design.

### Key features

- >30% savings as compared to CDM solutions
- Excellent thermal management system
- Long life of 40,000\* hours

### Technical specifications

Type	ST271		RS271	
System Wattage (W)	29	47	28	50
IP Rating		20		20
Lumen Output (lm)	2000	4000	2000	4000
System Efficacy (lm/W)		>85		up to 80
Color Temperature (K)	3000, 4000, 5000		3000, 4000, 5000	
CRI	80		80	
Housing	Pressure die cast aluminium		Pressure die cast aluminium	
Cover	Clear		Clear	
Mounting	Track mounted		Recessed	
THD	<15%		<10%	
PF	>0.9		>0.9	
Operating Voltage	220V-240V, 50/60 Hz		220V-240V, 50/60 Hz	



Applications  
Retail stores

# Indoor Industrial

## Table of Contents

<b>Product</b>	<b>Pg</b>
EnduraLED Bulkhead	50
EnduraLED Waterproof	52
EnduraLED Wellglass	54
GreenBay	56
GreenPerform Batten	58
SmartBright Batten	60
DuraLED Highbay	62
MaXolid	64



## EnduraLED Bulkhead

An innovative and reliable LED solution that fits seamlessly in a variety of applications. This luminaire can be installed as ceiling mounted and wall mounted. It serves as a simple energy efficient alternative to CFL/ incandescent bulkhead luminaires.

### Versatile lighting solution

**80%\*** energy savings

The luminaire offers high energy savings without compromising on lighting quality.

**IK09 certified- Impact resistant**

Minimizes commonly observed glass breakage issues either due to transit or at site.

**IP66- Protected against dust and water**

Ideal for rough industry environments. Offers stable and consistent performance.

### Key features

- Long life of 50000\* hours
- Suitable for tough conditions
- Eco-friendly
- Versatile solution- can be mounted on ceiling as well as wall

### Technical specifications

Type	WT202W
System Wattage (W)	9
IP Rating	IP66
Lumen Output (lm)	600
System Efficacy (lm/W)	70
Color Temperature (K)	6500
CRI	80
Housing	High pressure die cast aluminium
Cover	Polycarbonate
Mounting	Surface
THD	<20%
PF	>0.9
Operating Voltage	220V-240V, 50/60 Hz



Applications  
Area lighting



## EnduraLED Waterproof

EnduraLED Waterproof is a reliable and affordable LED waterproof system that delivers up to 40%\* energy savings compared to conventional lighting products. The reliable and robust housing structure helps to maximize inherent LED advantage of energy saving combined with long life.

### Versatile lighting solution

#### Up to 40%\* energy savings

This luminaire is highly efficient. It saves up to 40%\* energy.

#### Long life

It has a long life of up to 50000\* hours.

#### Robust housing

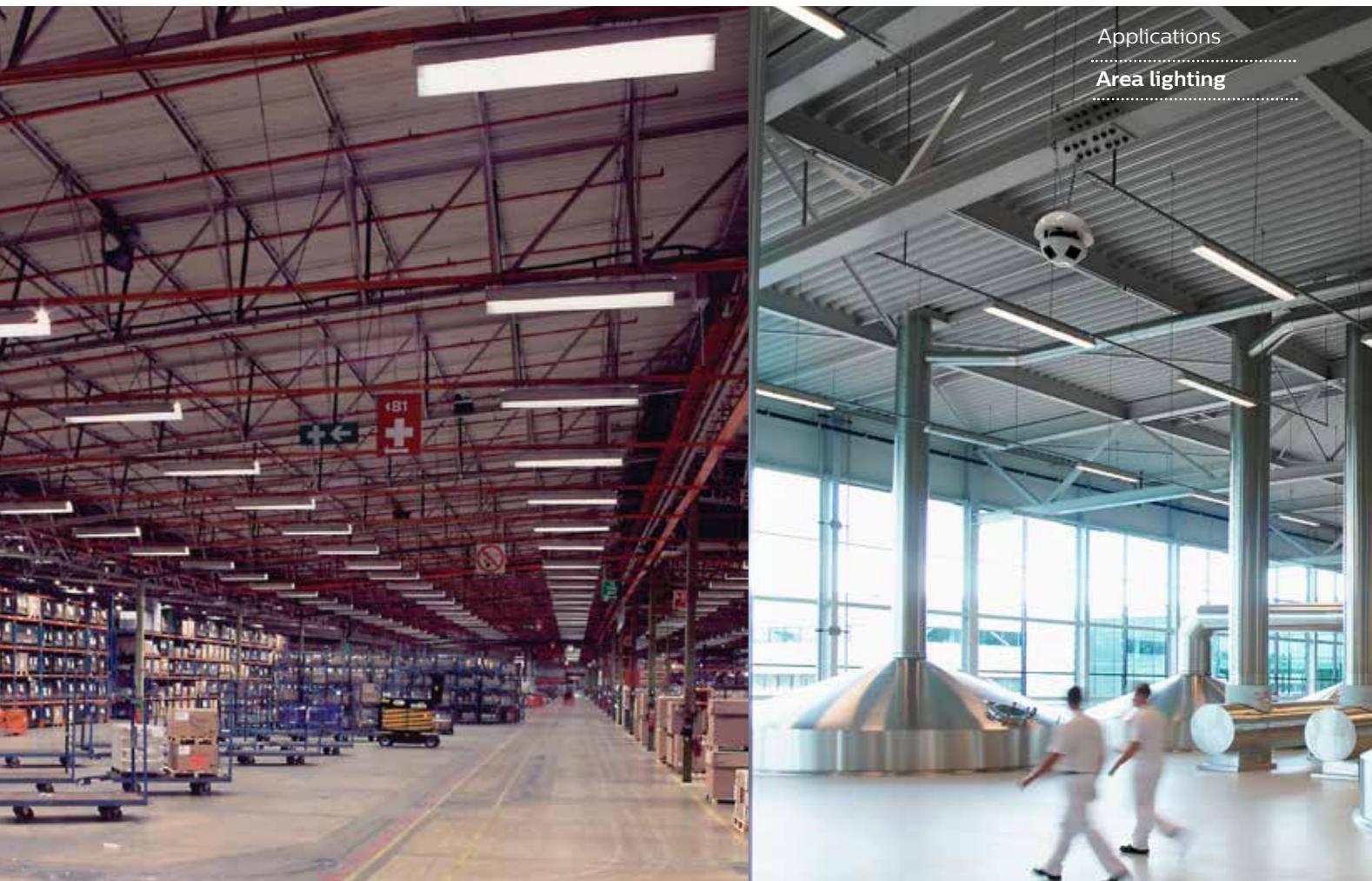
Sturdy housing structure helps maximize inherent benefits of LED.

### Key features

- System efficacy >80 lm/W
- Housing and cover made of virgin PC
- Installation possible with conduit/pipe/ surface mounting
- Dedicated optics provide precise symmetric light distribution

### Technical specifications

Type	WT550C
System Wattage (W)	38
IP Rating	IP65
Lumen Output (lm)	4000
System Efficacy (lm/W)	105
Color Temperature (K)	6500
CRI	80
Housing	Virgin polycarbonate
Cover	Virgin polycarbonate
Mounting	Surface/ Suspended
THD	<20%
PF	>0.95
Operating Voltage	140V-270 V





## EnduraLED Wellglass

Innovative LED well glass luminaire for direct replacement of 70W HPSV/125 HPMV conventional fixtures. EnduraLED Wellglass has the potential to save >60 %\* energy without compromising on lighting parameters.

### Efficiency, durability and performance

**>60%\* energy savings**

The luminaire offers high energy savings without compromising on lighting quality.

**IK 08- Vandal protected front diffuser**

Minimizes commonly observed glass breakage issues either due to transit or at site.

**IP 66- Protected against dust**

Ideal for rough industry environments. Offers stable and consistent performance.

### Key features

- System efficacy of 90 lm/W
- Pressure die cast aluminium housing
- Supplied with adjustable mounting bracket and loop in loop out provision
- UV stabilized acrylic diffuser

### Technical specifications

Type	BY20OP	BY200P
System Wattage (W)	29	39
IP Rating	IP66	IP66
Lumen Output (lm)	2700	3500
System Efficacy (lm/W)	93	90
Color Temperature (K)	4000,6500	6500
CRI	80	80
Housing	High pressure die cast aluminium	High pressure die cast aluminium
Cover	Tempered glass	Tempered glass
Mounting	Dedicated mounting bracket (CRCA)	Dedicated mounting bracket (CRCA)
THD	≤10%	≤10%
PF	>0.95	>0.95
Operating Voltage	220-240V, 50/60 Hz	220V-240V, 50/60 Hz



Applications

Process areas



# GreenBay

GreenBay is an integrally designed, versatile lighting solution from Philips to address different lighting requirements within industrial spaces. From under canopies to truss mounted medium bay luminaires, GreenBay can be used across recessed or suspended mounted applications.

## Efficiency, durability and performance

### Day light harvesting and occupancy sensing

The inbuilt intelligence through DALI compatibility enhances the energy saving potential.

### Direct replacement for Metal halides

Minimizes commonly observed glass breakage issues either due to transit or at site.

### Multiple mounting options

Ideal for rough industry environments. Offers stable and consistent performance.

## Key features

- >50%\* energy saving
- Long life of 50000\* hours
- Maintenance free
- Eco-friendly

## Technical specifications

Type	GreenBay Gen II		
System Wattage (W)	70	105	140
IP Rating	IP65		
Lumen Output (lm)	7200	11000	14500
System Efficacy (lm/W)	>100		
Color Temperature (K)	5700		
CRI	70		
Housing	High pressure die cast aluminium		
Cover	Tempered glass		
Mounting	Universal with dedicated mounting KITS		
THD	<20%		
PF	>0.9		
Operating Voltage	120V-277V		



Applications

Process areas

Warehouse



## GreenPerform batten

GreenPerform LED batten is an innovative solution for conventional twin lamp battens. It is designed to be a direct replacement for conventional battens providing energy savings of more than 30%\* with no compromise on lighting performance. Integrally designed and developed by Philips, this product provides seamless adoption towards industry leading technology.

### Efficiency, durability and performance

#### High system efficacy

The luminaire has high system efficacy of 100 lm/W.

#### Attractive payback

GreenPerform quickly covers its cost in less than 3 years.

#### Eco-friendly

The luminaire has no mercury content making it sustainable and green lighting solution.

### Key features

- 30%\* energy saving
- Long life of 50000\* hours
- Maintenance free

### Technical specifications

Type	BN 208C Gen II
System Wattage (W)	36
IP Rating	IP20
Lumen Output (lm)	4000
System Efficacy (lm/W)	110
Color Temperature (K)	3000,4000, 5000, 6500
CRI	>80
Housing	CRCA
Cover	High efficiency diffuser
Mounting	Surface/Suspended
THD	<10%
PF	>0.95
Operating Voltage	220V-240V, 50/60Hz



Applications

Process areas

Warehouse



## SmartBright batten

SmartBrite batten is a new and innovative LED batten which saves up to 45%\* energy without compromising on the light quality. It is eco-friendly and inherits all the benefits of LED like long life and energy saving. It saves energy while giving out high quality light, CRI>80.

### High performance and savings

#### Long life

SmartBrite batten has a long life of up to 25000\* burning hours.

#### High quality light, CRI>80

This batten displays true colors which helps increase productivity and reduce errors at workplaces.

#### High light output

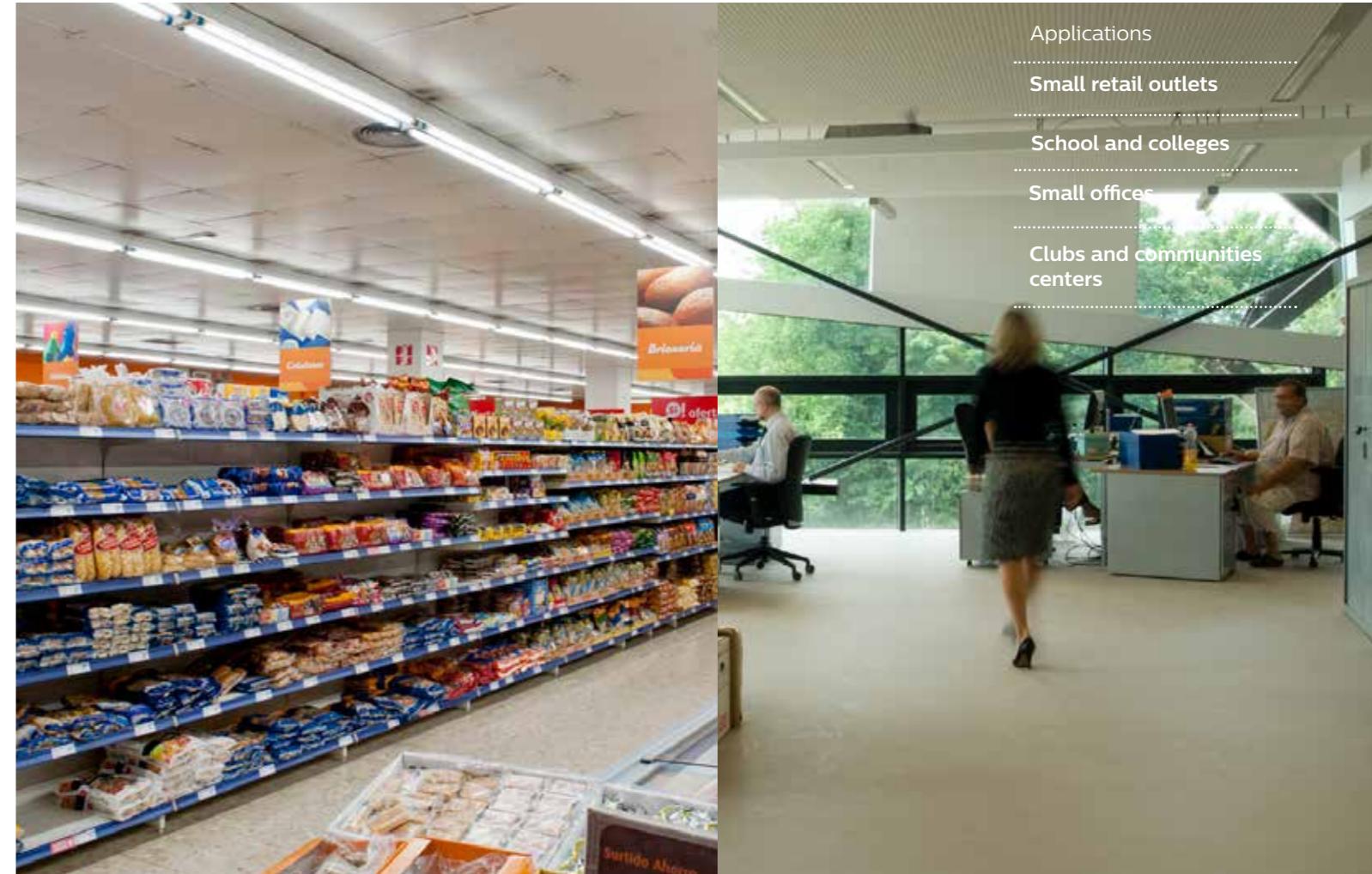
This batten gives high light output of 2000 lumens.

### Key features

- No harmful UV/IR radiation
- Maintenance friendly
- Extruded aluminium housing

### Technical specifications

Type	BN021
System Wattage (W)	21
IP Rating	IP20
Lumen Output (lm)	2000
System Efficacy (lm/W)	>95
Color Temperature (K)	4000, 6500
CRI	>80
Housing	Extruded aluminium
Cover	Polycarbonate
Mounting	Wall, Conduit
THD	<20%
PF	>0.9
Operating Voltage	140 V-270 V



Applications

Small retail outlets

School and colleges

Small offices

Clubs and communities centers



## DuraLED Highbay

DuraLED highbay provides an energy efficient lighting solution. The product family comes in lumen pack of 10k lumen with a choice of narrow beam and wide beam optics. This provides a perfect retrofit solution for upgrading from 250W conventional highbay to LED lighting solution which saves up to 70%\* energy.

### Superior performance, attractive savings and payback

#### Highly efficient, 125lm/W

DuraLED highbay delivers best system efficacy of 125lm/W. The luminaire is easy to install and replace as it is a direct replacement for 250W HPI BU lamp.

#### Attractive payback

This luminaire offers high energy saving and is extremely affordable which means that you recover your cost in a very short period.

#### Choice of optics for different applications

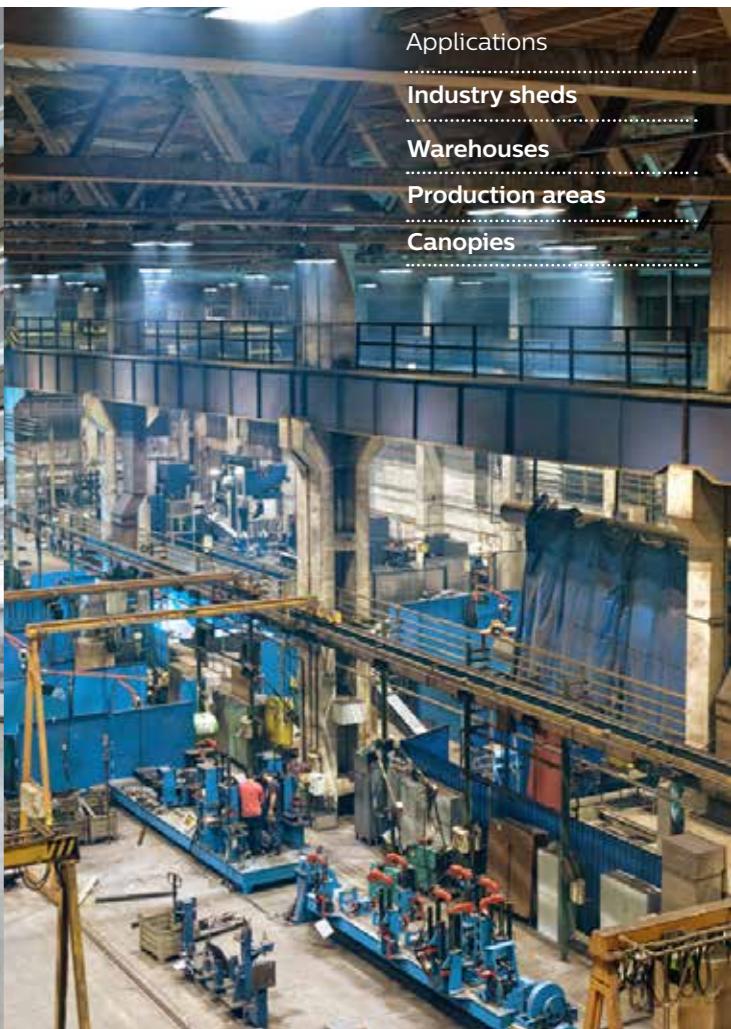
This luminaire comes with choice of narrow beam and wide beam optics making it suitable for wide range of applications.

### Key features

- Highly efficient, 125 lm/W
- Attractive payback
- Long life of up to 50000\* hours

### Technical specifications

Type	BY325
System Wattage (W)	80
IP Rating	IP 65
Lumen Output (lm)	10000
System Efficacy (lm/W)	125
Color Temperature (K)	6500
CRI	80
Housing	High pressure die cast aluminium
Cover	Tempered glass
Mounting	Suspended
THD	<20%
PF	>0.9
Operating Voltage	220-240V, 50/60 Hz



Applications

Industry sheds

Warehouses

Production areas

Canopies



## MaXolid

MaXolid highbay is an intelligent, direct HID highbay replacement which saves 50%\* energy vs. conventional industrial highbay. The inbuilt intelligence through DALI compatibility enhances the energy saving potential as a result of daylight harvesting and occupancy sensing.

Combining the best features like instant start, long life, controllability and high efficiency, MaXolid provides significant and sustained energy savings over the product life cycle.

### Inbuilt intelligence for higher returns

#### Day light harvesting and occupancy sensing

The inbuilt intelligence through DALI compatibility enhances the energy saving potential.

#### Direct replacement

MaXolid highbay is an intelligent direct HID replacement which saves 50%\* energy.

#### High system efficacy

With efficacy of more than 100 lm/W, the luminaire is highly efficient.

### Key features

- System efficacy >100 lm/W
- Luminaire housing made of high pressure die cast aluminium
- Installation possible with hook or threaded rod
- Dedicated optics provide precise symmetric light distribution

### Technical specifications

Type	BY416 NI	BY415
System Wattage (W)	210	118
IP Rating	IP65	IP65
Lumen Output (lm)	22000	14500
System Efficacy (lm/W)	105	125
Color Temperature (K)	5700	6500
CRI	70	80
Housing	High pressure die cast aluminium	High pressure die cast aluminium
Cover	Tempered glass	Tempered glass
Mounting	Suspended	Suspended
THD	<20%	<20%
PF	>0.9	>0.9
Operating Voltage	220V-240V, 50/ 60 Hz	220V-240V, 50/60 Hz



Applications

Process areas

Warehouse

# Public Luminaires

## Table of Contents

<b>Product</b>	<b>Pg</b>
GreenLine Xtra	68
GreenLine Gen2	70
SmartBright Street	72
SmartBright Street	74
GreenLine Smart	76
TempoLED	78
FloodTune	80
Uniflood	82
Uniflood 2	84
CityCube Post-top	86
CityCube Wall Mount and Bollard	88
LED Post-top	90
LED Step-light	92
LED Spot	94
Uplite	96
LED Marker	98
LED Bollard	100
Solar Street Light System	102
VayaLinear	104



## Technical specifications

Type	BRP322
System Wattage (W)	125- 210
IP Rating	IP66
Lumen Output (lm)	12000-21000
System Efficacy (lm/W)	100
Color Temperature (K)	5700
CRI	70
Housing	LM6 high pressure die cast aluminium
Cover	Polycarbonate/ HT Glass cover
Mounting	48mm to 60mm OD, side mounting
THD	<20
PF	0.95
Operating Voltage	140-270V

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Other variant's available on requests

## GreenLine Xtra

Maintenance free LED luminaire with urban looks for city roads offering best in class energy savings. Existing luminaires can be easily upgraded to new LED technology with minimum changes in existing installation.

### Build to last, designed to save

#### Unique lens plate and choice of optics

- Meets IS1944 lighting requirement for A2/ B1 category road
- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership

#### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*

#### Installer friendly

- Simple and faster installation
- Easy access for driver replacement



Applications

Outdoor

Street lighting



## Technical specifications

Type	GreenLine V2 (BRP 409)	GreenLine V2 (BRP410)
System Wattage (W)	36- 70	70- 105
IP Rating	IP66	IP66
Lumen Output (lm)	3500- 7000	7000- 11000
System Efficacy (lm/W)	100	100
Color Temperature (K)	5700	5700
CRI	70	70
Housing	LM6 high pressure die cast aluminium	LM6 high pressure die cast aluminium
Cover	Polycarbonate/ Glass	Polycarbonate/ Glass
Mounting	Side entry with OD between 28-40mm	Side entry with OD of 48-60mm
THD	<20%	<20%
PF	>0.95	>0.95
Operating Voltage	140V-270 V AC 50Hz	140V-270 V AC 50Hz

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Other variant's available on requests

## GreenLine Gen2

Road lighting luminaire with unique peanut lens and high power LED. It ensures uniform light distribution, higher spacing between poles and maintenance free system. With a life class of 50000 hours\* (At L70) and excellent thermal management, this luminaire is an apt choice for major roads.

### Build to last, designed to save

#### Unique lens plate and choice of optics

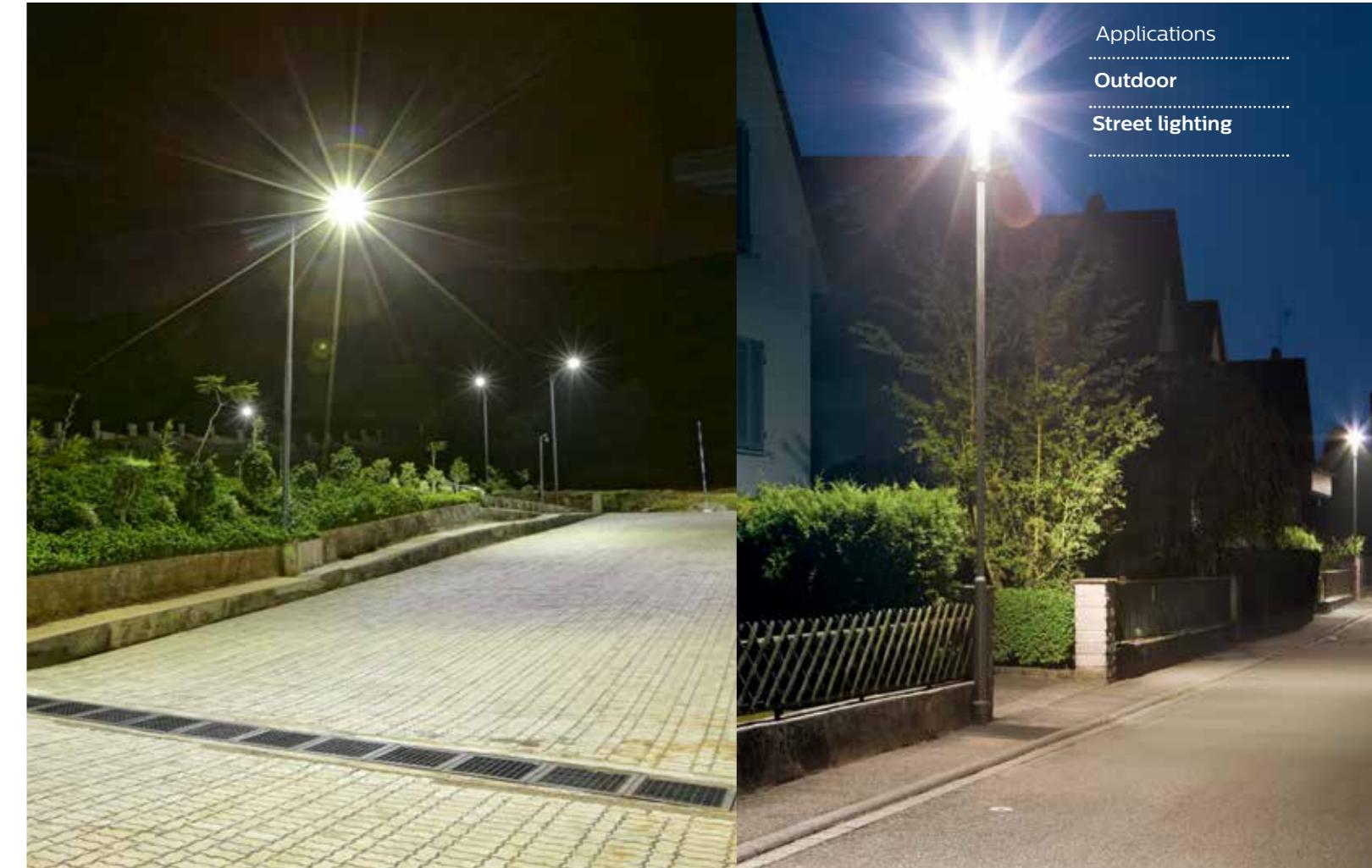
- Meets IS1944 lighting requirement for A2/ B1 category road
- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership

#### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*

#### Installer friendly

- Simple and faster installation
- Easy access for driver replacement



Applications

Outdoor

Street lighting



## Technical specifications

Type	BRP 052
System Wattage (W)	40
IP Rating	IP65
Lumen Output (lm)	3600
System Efficacy (lm/W)	90
Color Temperature (K)	5700
CRI	70
Housing	LM6 high pressure die cast aluminium
Cover	Glass
Mounting	Side entry with OD 32-40mm
THD	<20%
PF	>0.9
Operating Voltage	140V-270 V AC 50Hz

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Other variant's available on requests

## SmartBright Street

SmartBright street offers a long lasting performance even under diverse environment. It is designed to save up to 70% energy compared to conventional lighting solutions. It comes in high quality material with superior aesthetic looks.

### Reliable savings, lasting brightness

#### High quality material and design

- Finless design with superior aesthetic looks
- Toughened and shatter-proof quality built-in lens enhances safety
- Pressure die-cast housing offers excellent corrosion-resistance and robustness

#### Long-lasting performance

- Designed for energy savings of up to 70%
- 50k hours operation
- Designed for operations under diverse environment from -10°C to 45°C

#### Uniform lighting

- Street light distribution with uniform lighting on the street



Applications .....

Residential .....

Security .....

Parks .....

## Technical specifications

Type	BRP 042
System Wattage (W)	20
IP Rating	IP65
Lumen Output (lm)	1900
System Efficacy (lm/W)	95
Color Temperature (K)	5700
CRI	70
Housing	LM6 high pressure die cast aluminium
Cover	Polycarbonate
Mounting	Side entry with OD 28-40mm
THD	<10%
PF	>0.9
Operating Voltage	100-270V AC 50 Hz

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Other variant's available on requests

## SmartBright Street

The luminaire offers uniform lighting on street and high energy savings of up to 70%\*. With high impact-resistant polycarbonate cover and IP65 protection, it is ideal for touch weather conditions. It has a long life as compared to FTL/CFL street lights and meets lighting level as per B2/B1 category roads of IS1944.

### Reliable savings, lasting brightness

#### Long lasting performance

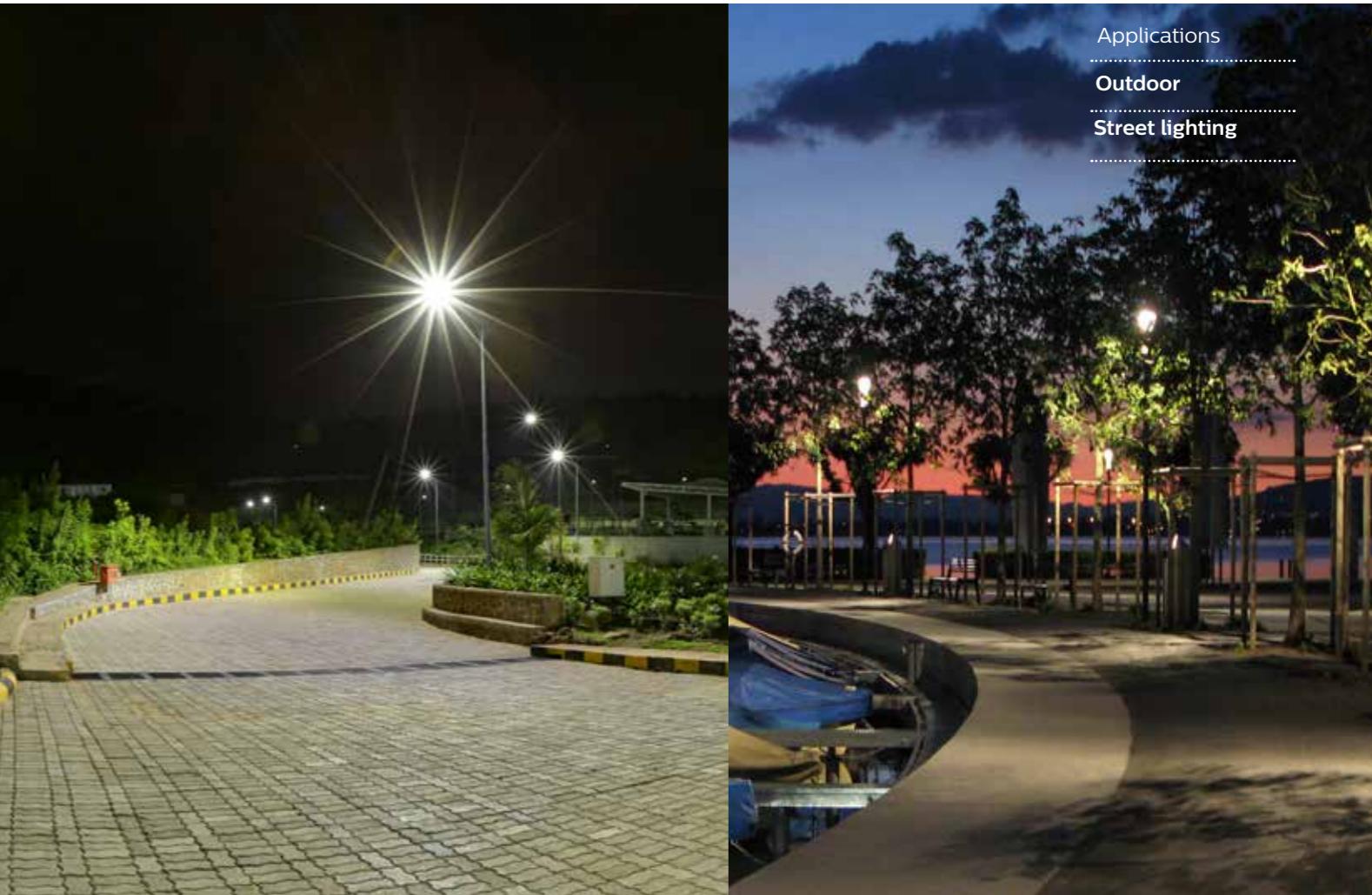
- Designed for energy savings of up to 70%\*.
- 50000 burning hours @L70
- Designed for operations under diverse environment from -10°C to 45°C

#### High quality material and design

- Finless design with superior aesthetics looks
- Toughened and shatter-proof quality built-in lens enhances safety
- Pressure die-cast housing offers excellent corrosion-resistance and robustness

#### Uniform lighting

- Street light distribution with uniform lighting on the street



Applications .....

Outdoor .....

Street lighting .....



## Technical specifications

Type	BRP022	BRP022
System Wattage (W)	10	20
IP Rating	IP66	IP66
Lumen Output (lm)	1000	2000
System Efficacy (lm/W)	100	100
Color Temperature (K)	5700	5700
CRI	70	70
Housing	LM6 high pressure die cast aluminium	LM6 high pressure die cast aluminium
Cover	Polycarbonate	Polycarbonate
Mounting	Side entry with OD 28-40mm	Side entry with OD 28-40mm
THD	<10%	<10%
PF	>0.95	>0.95
Operating Voltage	140-270V AC 50Hz	140-270V AC 50Hz

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Other variant's available on requests

# GreenLine Smart

GreenLine Smart luminaire is perfect for secondary roads and pathways. It sports a compact body, which offers a highly efficient lighting solution as compared to fluorescent and CFL street lights. This is a versatile street light that can be used in various other outdoor applications.

## Build to last, designed to save

### Unique lens plate and choice of optics

- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership
- No dark patches and low light spill

### Best in class driver and LED's

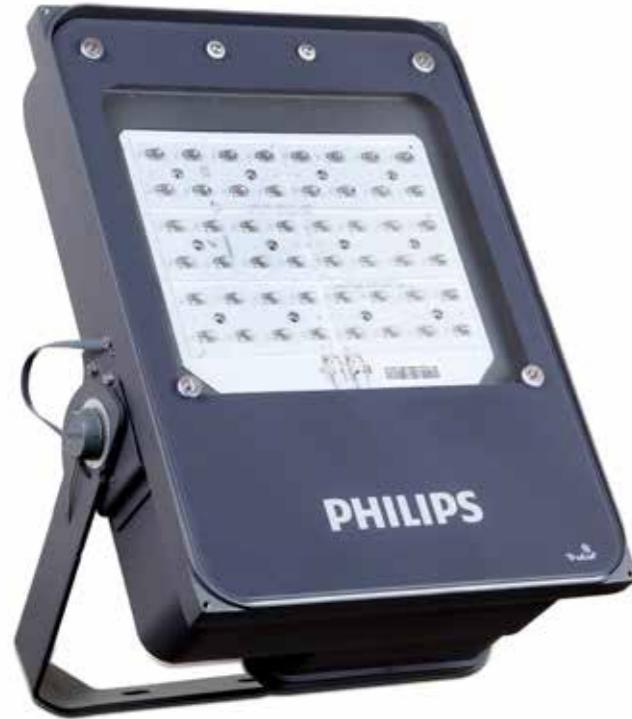
- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*

### Installer friendly

- Simple and faster installation
- Easy access for driver replacement



\*Conditions apply



## Technical specifications

Type	BVP410
System Wattage (W)	160 - 240
IP Rating	IP65
Lumen Output (lm)	15000 - 25000
System Efficacy (lm/W)	100
Color Temperature (K)	5700
CRI	70
Housing	LM6 high pressure die cast aluminium
Cover	Glass
Mounting	Wall/ bracket
THD	<20%
PF	>0.95
Operating Voltage	140-270V AC 50 Hz

### Different options for optics available

#### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240 V AC
- Other variant's available on requests

# TempoLED

Philips TempoLED is a general-purpose LED flood lighting luminaire for various lighting applications, such as area lighting, sports lighting, bill board, facade, industry area, security lighting and other general applications. The TempoLED flood light incorporates LED light sources, optical system, heat sink and drivers into one compact housing which ensures the LED's have a long life.

## Compact and robust

### Unique lens plate and choice of optics

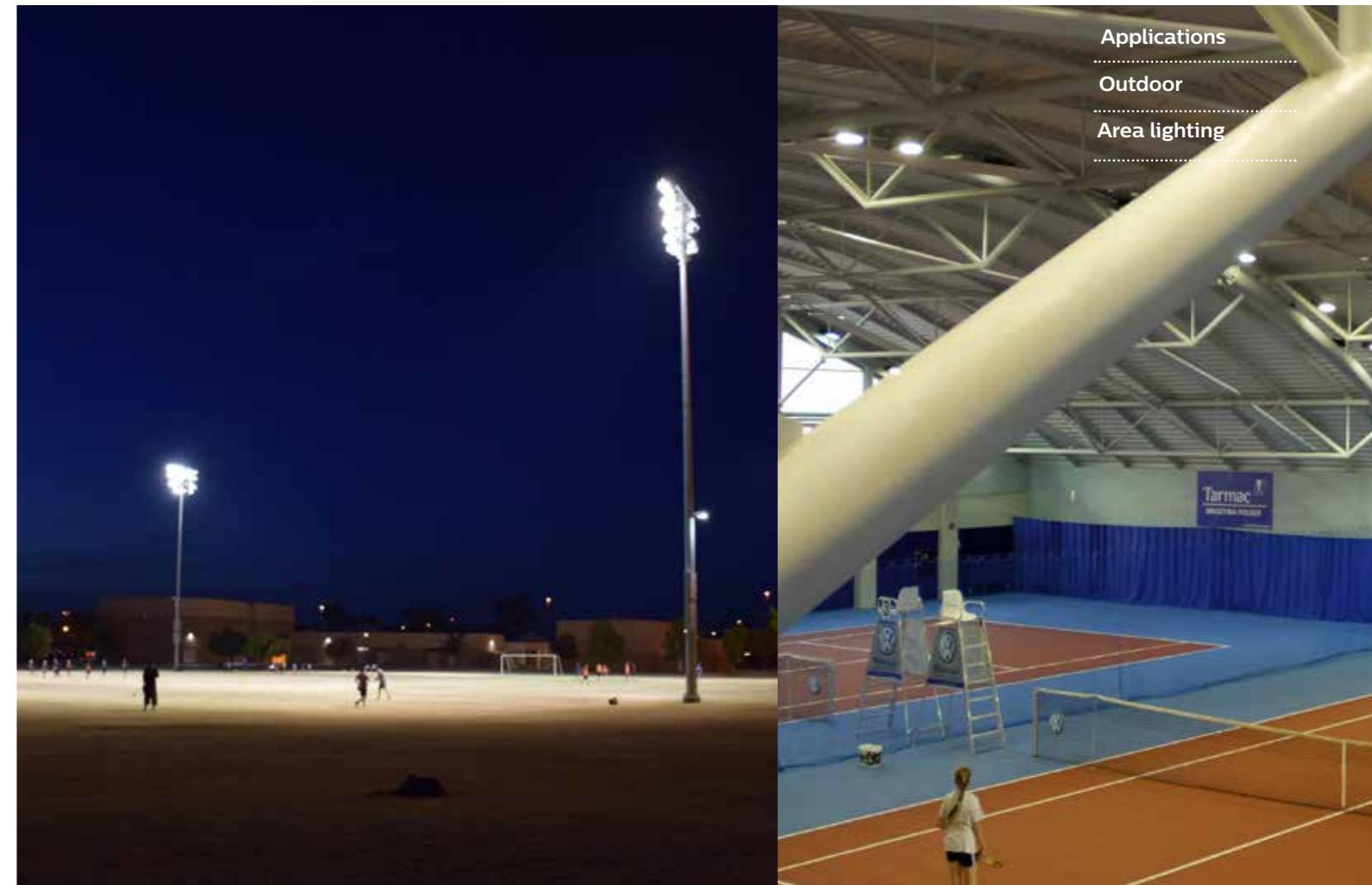
- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership
- Constant light output and distribution

### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*

### Installer friendly

- Simple and faster installation
- Easy access for driver replacement



Applications

Outdoor

Area lighting



## Technical specifications

Type	BVP220
System Wattage (W)	40
IP Rating	IP65
Lumen Output (lm)	1800 (white color)
Housing	LM6 high pressure die cast aluminum, powder-coated finish
Cover	Polycarbonate
Mounting	Integrated tilting surface-mount base
Operating Voltage	140-270V AC 50 Hz

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Mobile app can be downloaded from the google play store



FloodTune

# FloodTune

Philips FloodTune is easy to use, reliable and cost effective color changing outdoor flood light for creating dynamic lighting effects by just using your smart phone to control lights.

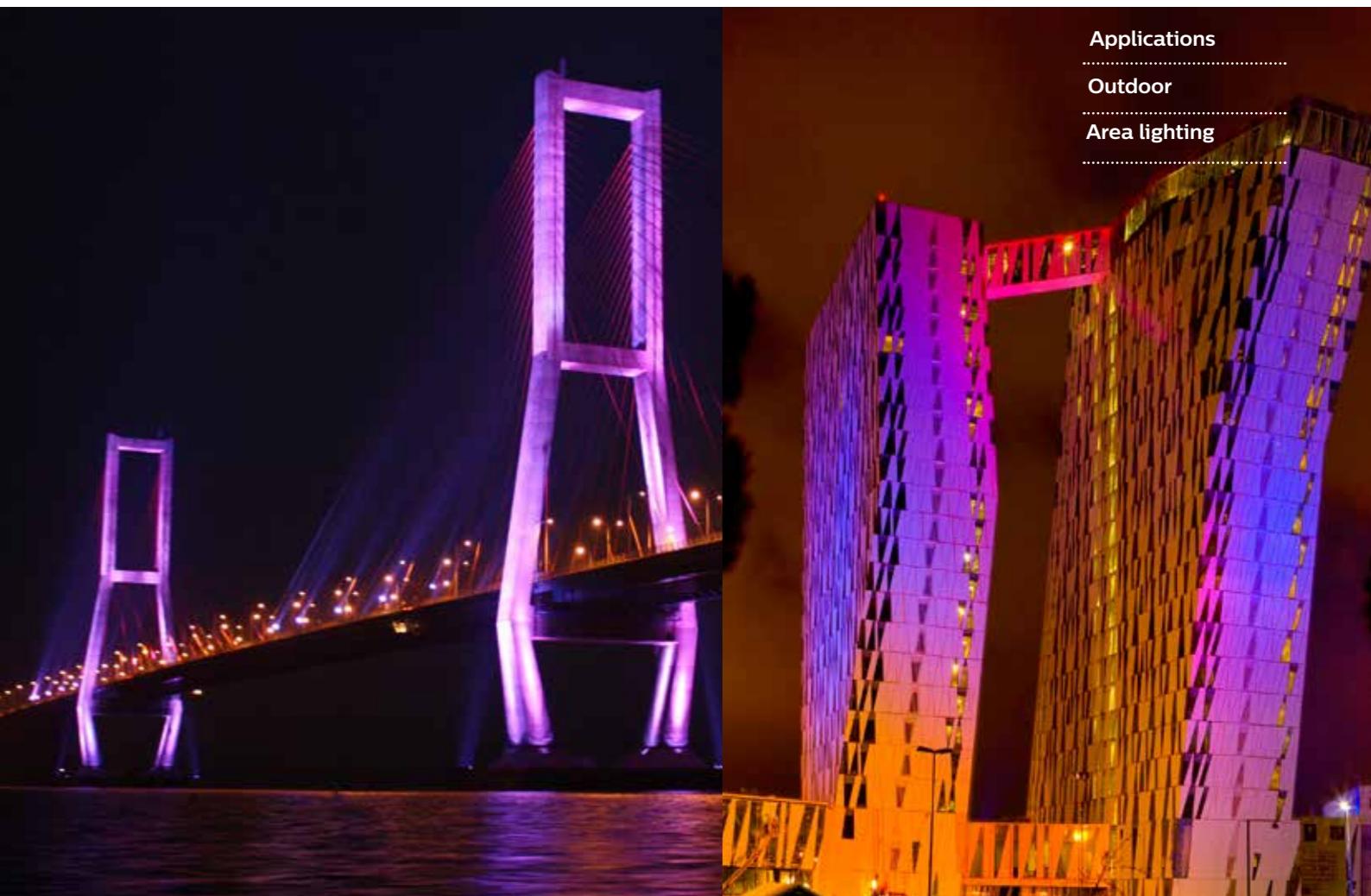
## Dynamic lighting made easy

### Connected color changing floodlight

- RGBW color changing floodlight for resorts, parks, banquet halls, religious monuments, building facades etc.

### Installer friendly

- Easy connect using Bluetooth
- Plug and play
- 5 preset scenes
- Can group up to 20 luminaires



### Applications

Outdoor

Area lighting

## Technical specifications



Type	BVP120	
System Wattage (W)	35	70
IP Rating	IP66	
Lumen Output (lm)	3500	7000
System Efficacy (lm/W)	100	
Color Temperature (K)	5700	
CRI	70	
Housing	LM6 high pressure die cast aluminium	
Cover	Glass	
Mounting	Wall/ Bracket	
THD	<10%	
PF	>0.95	
Operating Voltage	140-270V AC 50 Hz	

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240 V AC
- Other variant's available on requests

## Uniflood

Philips Uniflood is an integral flood light with driver inside a PDC housing. It is highly efficient, reliable and sturdy compared to similar LED, halogen and metal halide flood lights.

It delivers significant energy savings compared to conventional floodlights. The luminaire comes with a choice of lumen pack to suite various applications as well as a universal mounting bracket for easy angle adjustment.

### More brightness, more savings

#### Unique lens plate and choice of optics

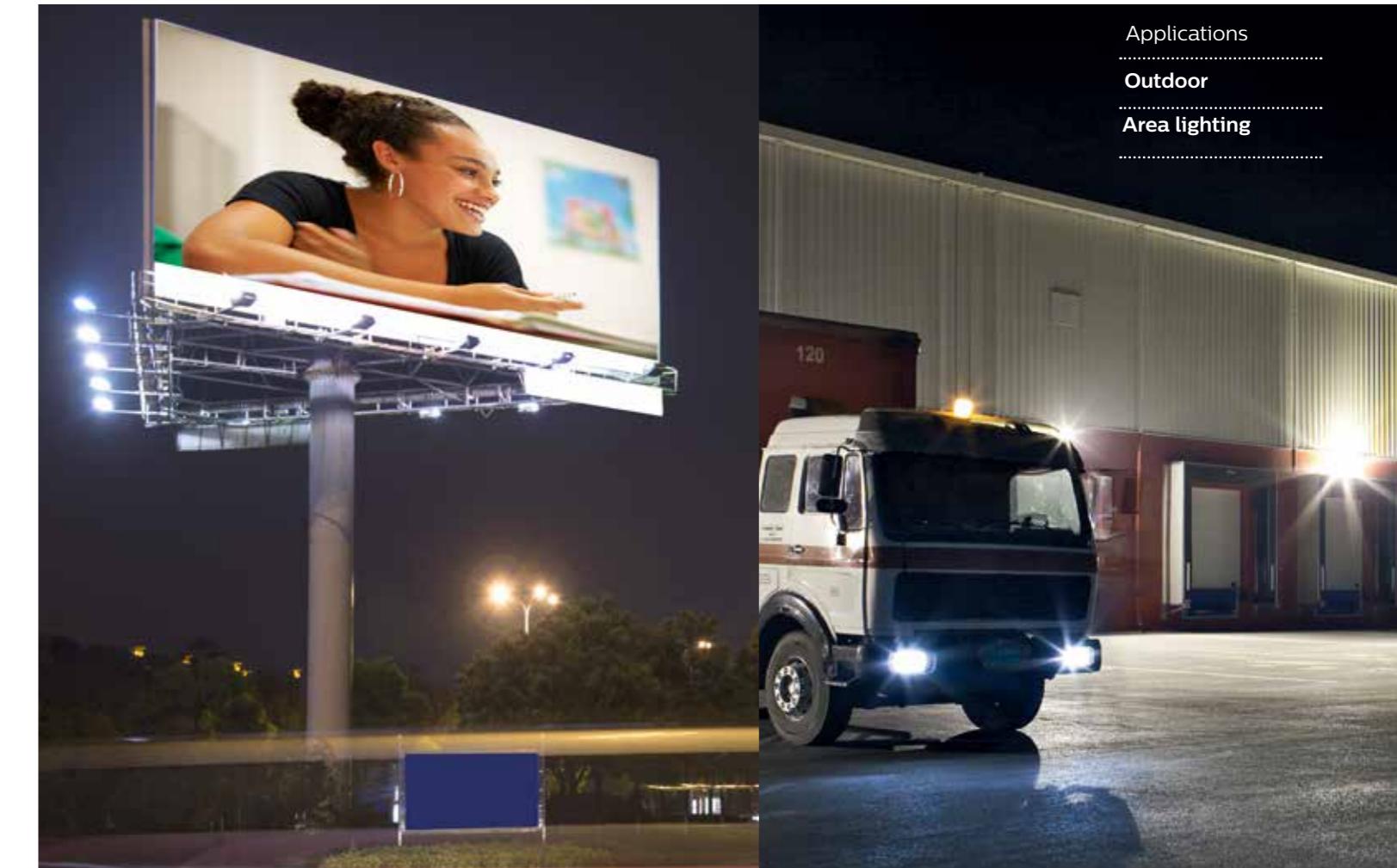
- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership
- Constant light output and distribution

#### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*

#### Installer friendly

- Simple and faster installation
- Easy access for driver replacement



Applications  
.....  
Outdoor  
.....  
Area lighting  
.....

## Technical specifications



Type	BVP122
System Wattage (W)	100-150
IP Rating	IP66
Lumen Output (lm)	11000-14600
System Efficacy (lm/W)	100
Color Temperature (K)	5700
CRI	70
Housing	LM6 high pressure die cast aluminium
Cover	Glass
Mounting	Wall/ Bracket
THD	<10%
PF	>0.95
Operating Voltage	140-270V AC 50 Hz

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240 V AC
- Other variant's available on requests

## Uniflood 2

Philips Uniflood new a integral flood light with driver, highpower LED, PDC housing which is Highly efficient, Reliable and sturdy compared to similar LED, Halogen, Metal Halide and SON flood lights.

### More brightness, more savings

#### Unique lens plate and choice of optics

- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership
- Constant light output and distribution

#### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*

#### Installer friendly

- Simple and faster installation
- Easy access for driver replacement



Applications

Outdoor

Area lighting



YX



LX

## Technical specifications

Type	City Cube Lx		City Cube Yx	
System Wattage (W)	35	70	35	70
IP Rating	IP66		IP66	
Lumen Output (lm)	2500	7000	2500	5000
System Efficacy (lm/W)	70, 100		70, 100	
Color Temperature (K)	5700		5700	
CRI	70		70	
Housing	LM6 high pressure die cast aluminium		LM6 high pressure die cast aluminium	
Cover	Glass and polycarbonate diffuser		Polycarbonate diffuser	
Mounting	Bottom entry		Bottom entry	
THD	<10%		<10%	
PF	>0.95		>0.95	
Operating Voltage	140-270V AC 50 Hz		140-270V AC 50 Hz	

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Available with special square pole

# CityCube Post top

CityCube is a range of outdoor lighting products of two variants in pole tops. Its contemporary form and sleek presence makes it most suitable for all the modern buildings.

## Redefining urbanscape

### Unique and modern

- Ideal for modern building with glass facade
- Offer with Bracket and pole as full system
- Compact with option of no up-light

### Unique lens plate

- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership
- Constant light output and distribution

### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*



\*Conditions apply

### Applications

#### Outdoor

#### City Scapes



## Technical specifications

Type	City Cube Wall	City Cube Bollard		
System Wattage (W)	8.5	8.5 (U)	14 (P)	17 (D, T)
IP Rating	IP65	IP65		
Lumen Output (lm)	500	400	50	900
System Efficacy (lm/W)	59	45, 65		
Color Temperature (K)	6500	6500		
CRI	70	70		
Housing	Die cast	Die cast		
Cover	Polycarbonate diffuser	Polycarbonate diffuser		
Mounting	Wall bracket	Base plate		
THD	<10%	<10%		
PF	>0.95	>0.95		
Operating Voltage	140-270V AC 50 Hz	140-270V AC 50 Hz		

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC

# CityCube Wall mount and Bollard

CityCube Wall and Bollard is a range of outdoor lighting products in various shapes and mounting options. Its contemporary form and sleek presence makes it most suitable for all the modern buildings and outdoor areas like gardens and parks.

## Redefining urban scape

### Unique and modern

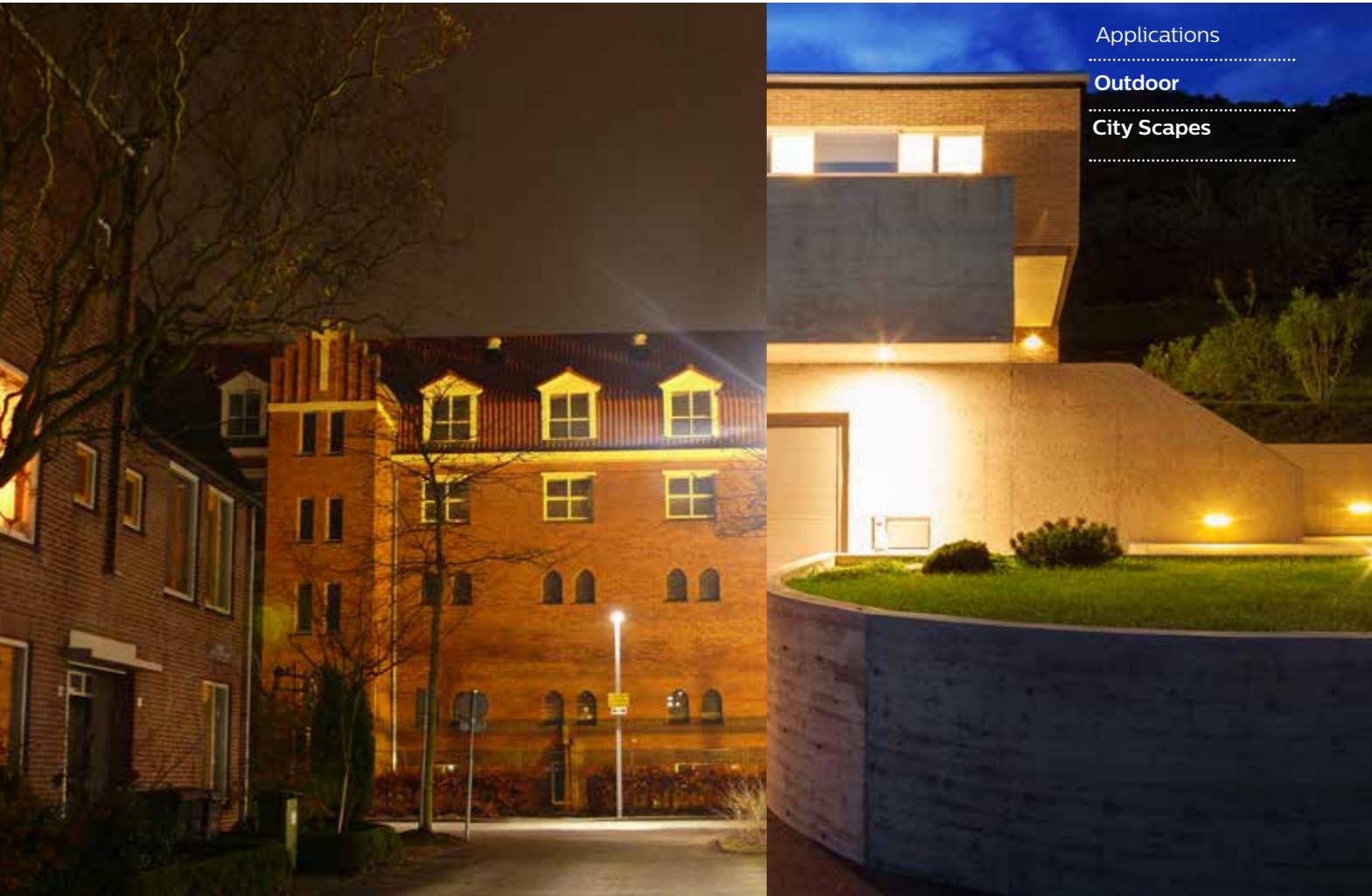
- Ideal for modern building with glass façade
- Offer with Bracket and pole as full system
- Compact with option of no up-light

### Unique lens plate

- Ensures uniform lighting and higher spacing
- Reduced total cost of ownership
- Constant light output and distribution

### Best in class driver and LED's

- Higher energy saving
- Constant light output over wide voltage range
- Maintenance free and longer life of 10 years\*



### Applications

#### Outdoor

#### City Scapes



## Key features

- IP65 protection
- Integrated electronic driver
- Long life of 25000 hours

## Technical specifications

Type	BGP161
System Wattage (W)	27
IP Rating	IP65
Lumen Output (lm)	2500 (4000K), 2300 (3000K)
System Efficacy (lm/W)	85
Color Temperature (K)	3000, 4000
CRI	>70
Housing	Aluminium die cast
Cover	Polycarbonate
Mounting	Pole mounted
PF	0.9
Operating Voltage	220-240V, 50/60 Hz

# LED Post-top

Stylish, robust and reliable post top lantern using LEDs. Having good light distribution, limited upward light component that avoids light pollution, this luminaire is an affordable landscape lighting solution.

## Reliable and cost effective

### Affordable solution

This luminaire is highly affordable.

### Highly reliable

With latest technology, the luminaire is highly reliable.

### Nice visual appearance

It has nice aesthetic appeal.



Applications  
outdoor areas



## Key features

- Affordable
- Reliable and uniform asymmetric light
- Easy installation with equipped mounting box

## Technical specifications

Type	BWG150
System Wattage (W)	4
IP Rating	IP67
Lumen Output (lm)	40 (WW), 50 (NW)
Color Temperature (K)	Warm white (3000), Neutral white (4000)
Housing	Die cast aluminium
Cover	Polycarbonate
Mounting	Wall recessed
Operating Voltage	220-24V, 50/60 Hz

# LED Step-light

LED Step-light offers uniform asymmetric lighting. This product is easy to install and comes with ingress protection. It also comes with suitable mounting box.

## Robust lighting solution

### Long life

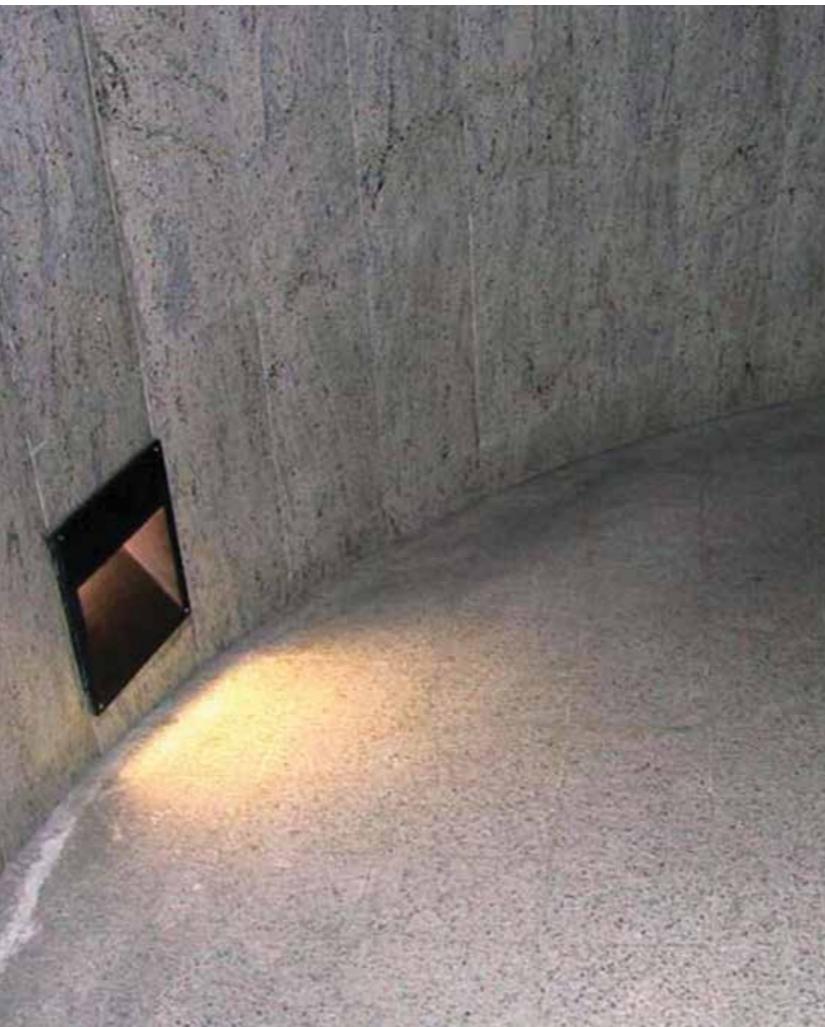
The luminaire has a long life span of 25000\* burning hours.

### Proved integrated electronic driver

The luminaire comes with integrated driver which makes it easy to install and maintain.

### Proved IP67 protection

Robustly designed through strict process control to ensure the IP67 protection through lifetime.



Applications

outdoor areas



## Key features

- High ingress protection
- Multiple mounting options
- Easy installation

## Technical specifications

Type	BGP 310
System Wattage (W)	6
IP Rating	IP65
Lumen Output (lm)	320 (WW, 12°), 378 (NW, 12°)
Color Temperature (K)	Warm white (3000), Neutral white (4000)
Housing	Die cast aluminium
Cover	Glass
Mounting	Spike, clip and surface
Operating Voltage	220-240V, 50/60 Hz

# LED Spot

Philips LED spot lights are ideal for replacing conventional spot lights and provide accent lighting for a variety of applications. Easy to install, these products come with suitable mounting options like spike, clips & surface mounting.

## Robust lighting solution

### Long life

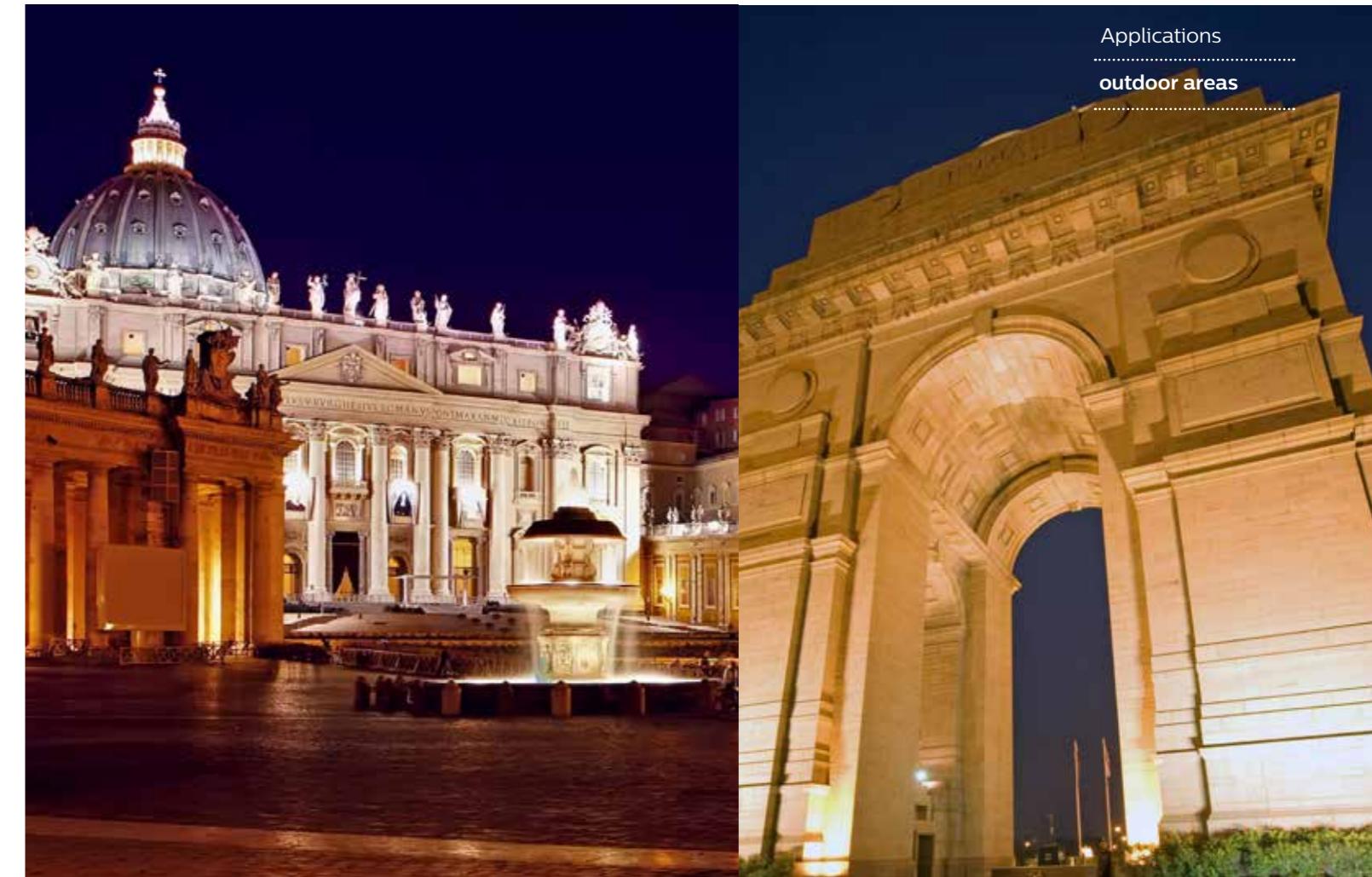
The luminaire has a long life span of 25000\* burning hours.

### Proved integrated electronic driver

The luminaire comes with integrated driver which makes it easy to install and maintain.

### Proved IP65 protection

Easy to install and robust design.



Applications  
.....  
**outdoor areas**



## Key features

- High ingress protection
- Long life
- Easy installation

## Technical specifications

Type	BBP 330
System Wattage (W)	15.8
IP Rating	IP67
Lumen Output (lm)	790
Color Temperature (K)	Warm white (3000), Neutral white 4000
Housing	Die cast aluminium
Cover	Glass
Mounting	Floor recessed
Operating Voltage	220-240V, 50/60 Hz

# Uplite

Philips LED Uplite offers accent lighting with easy to install and high ingress protection, and comes equipped with a suitable mounting box.

## Robust lighting solution

### Long life

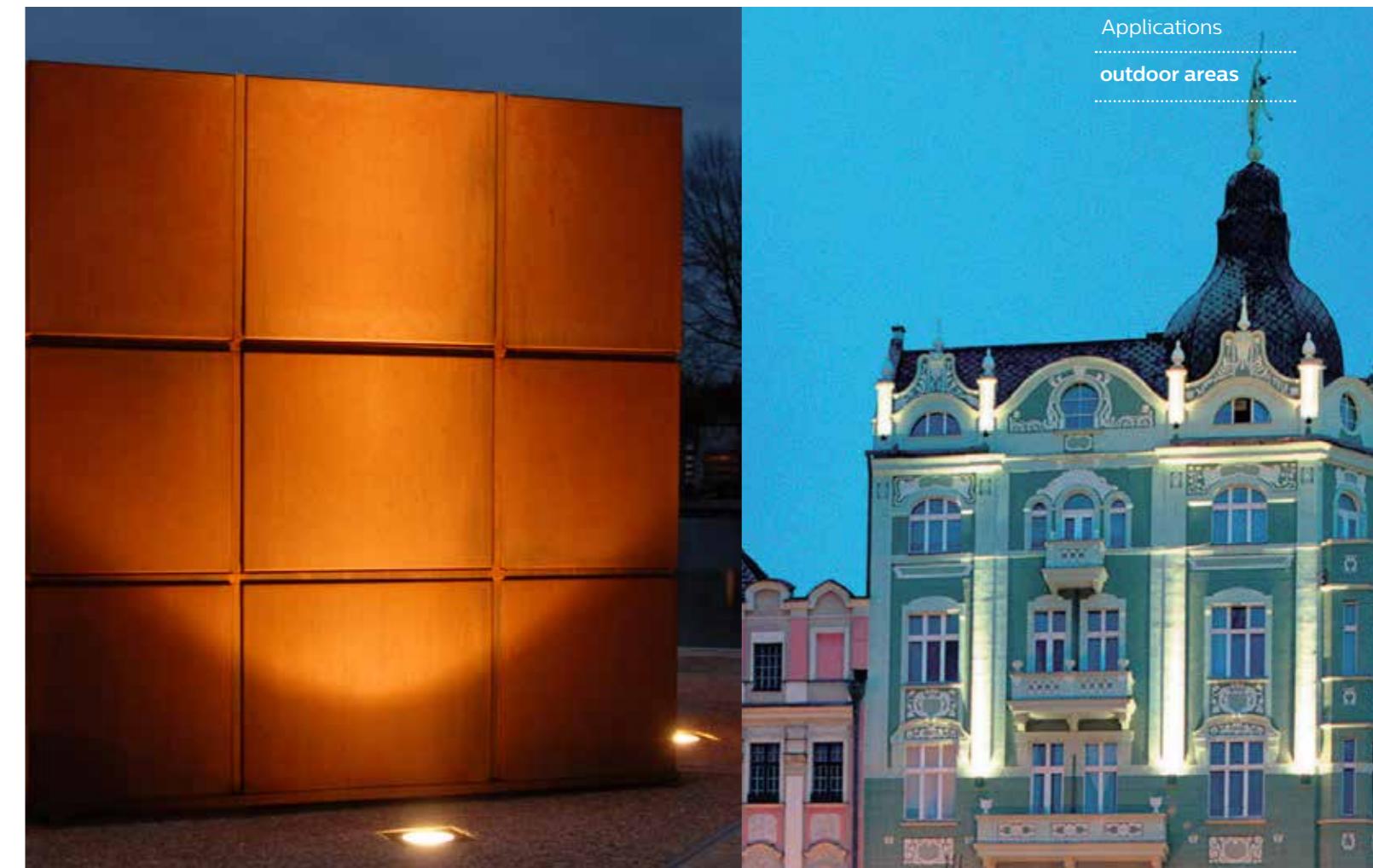
The luminaire has a long life span of 25000\* burning hours.

### Proved integrated electronic driver

The luminaire comes with integrated driver which makes it easy to install and maintain.

### Proved IP67 protection

Easy to install and robust design.



Applications

outdoor areas

## Key features

- Affordable
- Robust design and high reliability
- Easy installation with equipped mounting box



## Technical specifications

Type	BBG150, BBG151
System Wattage (W)	3
IP Rating	IP67
Lumen Output (lm)	50 (WW), 55 (NW)
Color Temperature (K)	Warm white (3000), Neutral white (4000)
Housing	Die cast aluminium
Cover	Tempered glass
Mounting	Floor recessed
Operating Voltage	220-240V, 50/60 Hz

# LED Marker

LED wall mount offers high level of durability with high impact resistance, ingress protection and comfortable soft lighting.

## Robust and reliable lighting solution

### Long life

The luminaire has a long life span of 25000\* burning hours.

### Proved integrated electronic driver

The luminaire comes with integrated driver which makes it easy to install and maintain.

### Proved IP67 and IK10

Robustly designed through strict process control to ensure the IP65 protection and IK10 impact resistant through lifetime.



Applications

outdoor areas



Variant

## Key features

- Reliable and impact resistant
- Easy installation
- Comfortable soft light and environment friendly

## Technical specifications

Type	BCP150	BCP151
System Wattage (W)	8	8
IP Rating	IP65	IP65
Lumen Output (lm)	500 (WW), 600 (NW)	500 (WW), 600 (NW)
Color Temperature (K)	Warm white (3000), Neutral white (4000)	Warm white (3000), Neutral white (4000)
Housing	Die cast aluminium	Die cast aluminium
Cover	Polycarbonate	Polycarbonate
Mounting	Pole	Pole
Height (Meter)	0.5	0.8
Operating Voltage	220-240V, 50/60 Hz	220-240V, 50/60 Hz

# LED Bollard

LED Bollard offers a high level of durability with high impact resistance. It is easy to install, comes with ingress protection and provides comfortable soft lighting.

## Reliable and cost effective

### Long life

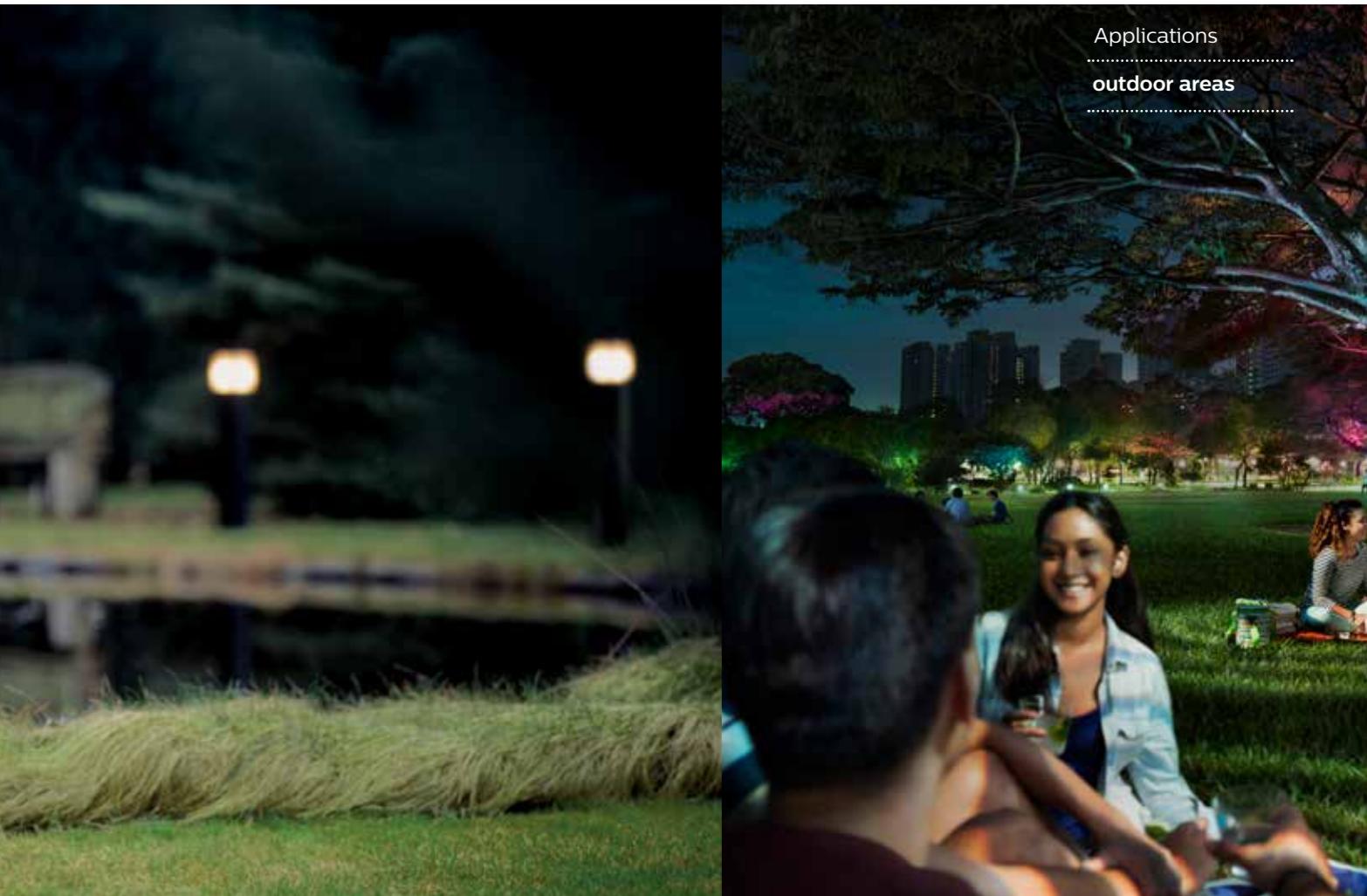
The luminaire has a long life span of 25000\* burning hours

### Proved integrated electronic driver

The luminaire comes with integrated driver which makes it easy to install and maintain

### Proved IP67 and IK10

Robustly designed through strict process control to ensure the IP65 protection and IK10 impact resistant through lifetime.



Applications  
outdoor areas



## Technical specifications

Type	BRP022 and BRP409 Family
System Wattage (W)	7 12 15 17 20 21 30 36 45
IP Rating	IP66
Lumen Output (lm)	750 - 5000
System Efficacy (lm/W)	>100
Color Temperature (K)	5700
CRI	>70
Housing	LM6 High pressure die cast aluminium
Cover	Polycarbonate
Mounting	Pole mounted
Dimming	Optional
Hybrid Charger	Optional
Pole Mounting Height	4m, 5m, 6m, 7m
Solar Charge Controller	Integrated with Luminaire
Charging Efficiency	>95%
Operating Voltage	12/24V DC

### Note

- All the specifications are nominal values and will have a variation of (+/-10%) at rated voltage of 240V AC
- Higher variant's available on requests

# Solar street lighting system

Solar powered outdoor lighting products are ideal for lighting the area in remote locations usage to reduce dependency on conventional power and contribute towards green energy. Reliable and long life makes this solution effective in fulfilling our present and future lighting requirements.

## Efficient and environment friendly

### No running cost

This luminaire runs with natural source of energy, hence there is no electricity cost.

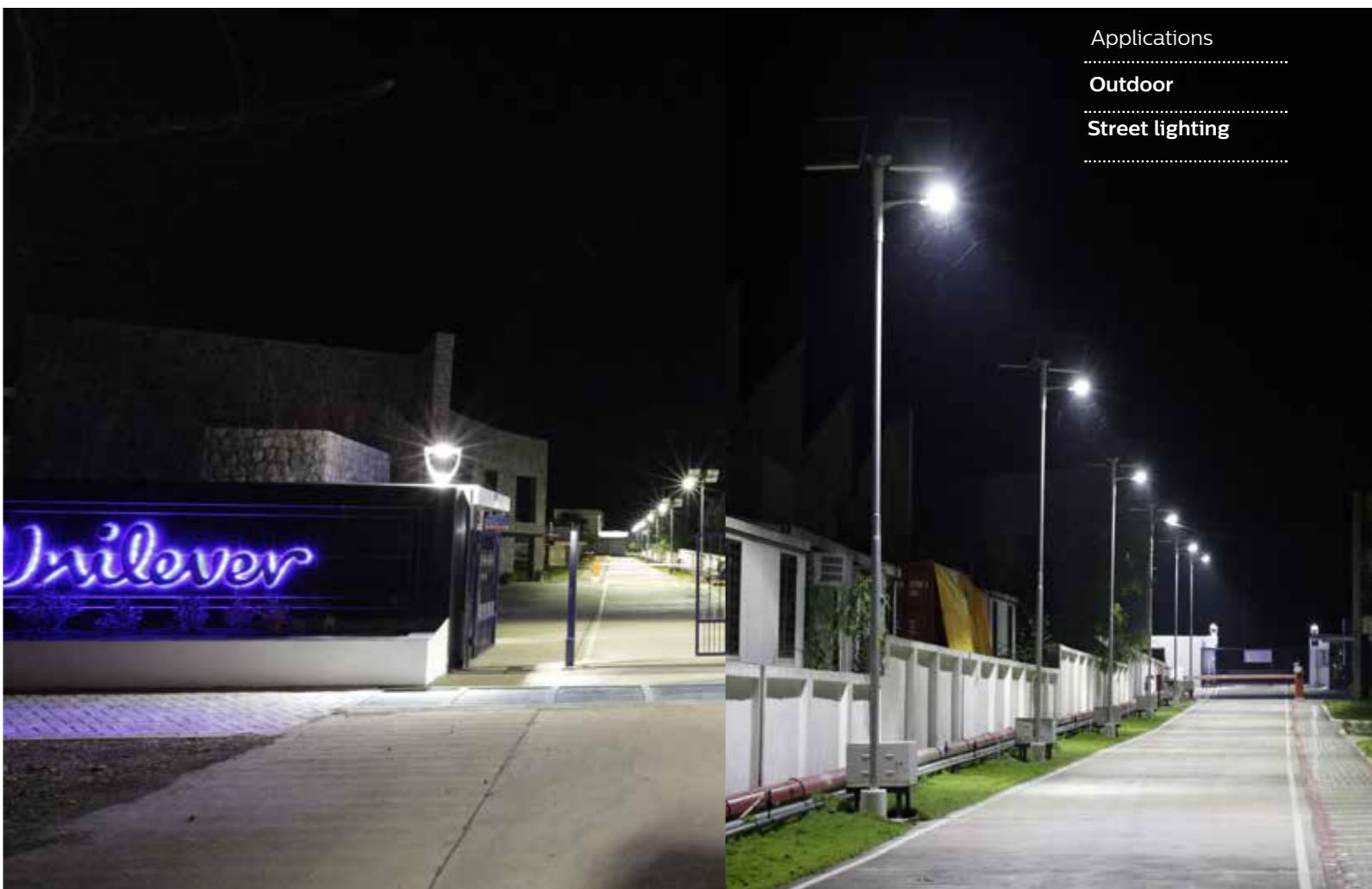
### IP66 protection

The luminaire is dust tight and water proof.

### Green solution

Runs 100% on solar energy.

Applications .....  
Outdoor .....  
Street lighting .....





## Vaya Linear

Vaya Linear is a reliable and cost effective LED lighting fixture designed for white or mono color lighting effects. With wide and elliptical beam options, Vaya Linear MP is ideal for wall washing and grazing applications. Two lengths and daisy-chain connectors make this product versatile and easy to use.

### Reliable and cost effective

#### Slim outdoor rated housing

This luminaire is extremely slim making installation possible in narrow coves.

#### Unique beam angle for low level grazing/ outdoor cove

Highly suitable for low level grazing applications.

#### Back-to-back connections using built-in connectors

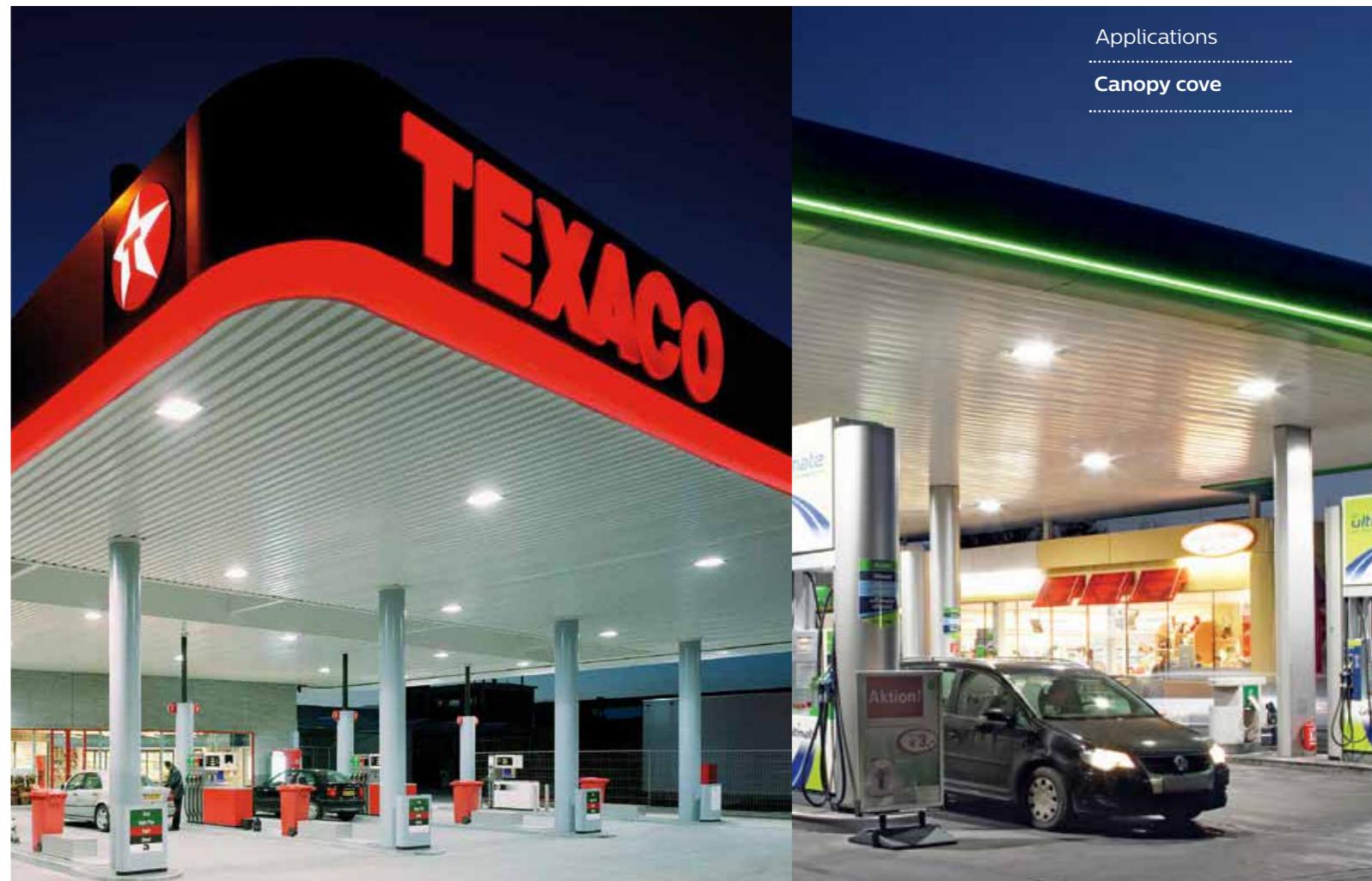
This luminaire is simple and faster to install.

### Key features

- Available in 4 CCTs and 4 mono colors
- Auto ranging 100–240 V, 50/60 Hz Input
- Eco-friendly

### Technical specifications

Type	Vaya Linear
System Wattage (W)	10
IP rating	IP66
Lumen Output (lm)	600
System Efficacy (lm/W)	60
Color Temperature (K)	4000
CRI	80
Housing	Extruded aluminium, anodized finish
Cover	Glass
Mounting	Location adjustable and tilting surface-mount bracket
THD	<20%
PF	>0.9
Operating Voltage	100–240V



Applications

Canopy cove

# Color kinetics product range

## Theatrical / Touring



Available in  
Color-Changing LED Lighting Systems  
IntelliWhite LED Lighting Systems

## Graze / Wash



Available in  
Color-Changing LED Lighting Systems  
EssentialColor LED Lighting Systems  
EssentialWhite LED Lighting Systems  
IntelliWhite LED Lighting Systems

## Flood / Spot



Available in  
Color-Changing LED Lighting Systems  
EssentialColor LED Lighting Systems  
EssentialWhite LED Lighting Systems  
IntelliWhite LED Lighting Systems

## Cove



Available in  
Color-Changing LED Lighting Systems  
EssentialColor LED Lighting Systems  
EssentialWhite LED Lighting Systems  
IntelliWhite LED Lighting Systems

## Direct View



Available in  
Color-Changing LED Lighting Systems  
EssentialWhite LED Lighting Systems

## Task / Downlight



## Controllers



## Controller Accessories



# LED Lamps

## Table of Contents

<b>Product</b>	<b>Pg</b>
MR16 lamp	110
LEDtube	112



## Key features

- ROHS compliant
- Clearly defined beam spread
- Eco-friendly

## Technical specifications

Type	MR16	
System Wattage (W)	3	5
IP Rating	IP20	
Lumen Output (lm)	260	435
System Efficacy (lm/W)	86	
Color Temperature (K)	2700, 6500	
CRI	80	
Housing	NA	
Cover	NA	
Mounting	Holder	
THD	NA	
PF	NA	
Operating Voltage	220-24 V, 50/60 Hz	

# MR16 lamp

Philips MASTER LED MR16 dimmable lamp integrates leading high power LED light source and compact high efficiency driver into a traditional halogen form factor. It is ideal for applications including track lighting, general architectural and landscape lighting.

## Cost effective and reliable

### Retrofit

Retrofits into vast majority of GU5.3 based fixtures.

### Long life

Long lifetime of 40,000 hours.

### High energy savings

Up to 80%\* energy saving compared to standard halogen lamps.



Applications

Retail stores



## LEDtube

Philips Essential LEDtube integrates LED light source with glass cover design into traditional linear fluorescent form. It consumes only 17W and offers energy saving up to 57%\*.

### High return on ROI

#### High savings

Essential LEDtube offers high energy savings of up to 57%\*.

#### Attractive payback

It offers high ROI and covers its cost in 6 months\*.

#### Eco-friendly

With no mercury content the LEDtube is eco-friendly and environment friendly.

### Key features

- No glare discomfort and uniform light distribution
- No external driver required
- Long life of 30000\* hours

### Technical specifications

Type	LEDtube
System Wattage (W)	17
IP Rating	IP20
Lumen Output (lm)	1600
System Efficacy (lm/W)	94
Color Temperature (K)	6500
CRI	80
Housing	Glass
Cover	Glass
Mounting	Batten mounted on wall
THD	<25%
PF	>0.9
Operating Voltage	140-280V



Applications

Process areas

Warehouse

# Controls

## Table of Contents

<b>Product</b>	<b>Pg</b>
OccuSwitch	116
Amplight	118
Dynalite	120



# OccuSwitch

OccuSwitch is a movement detector with a build-in switch. It will switch off the lights in a room or area when it is vacant and thus save energy.

Occuswitch can switch any load up to 6 A and control an office area of around 20Sqm for small movement (e.g. desk work) and around 50Sqm for large movement (e.g. walking).It's smart daylight sensing technology offers additional saving through daylight override and daylight switching.

## Smart, efficient and reliable

### Plug and play

OccuSwitch offers a single function occupancy control. It is very easy to install and can be applied without any commissioning.

### Smart savings

Energy consumption based upon actual usage, instead of connected load. It offers good pay-back scenario with savings up to 30%.\*

### Display true color

Inbuilt photocell sensor to switch off lights when desired lighting levels are available through daylight

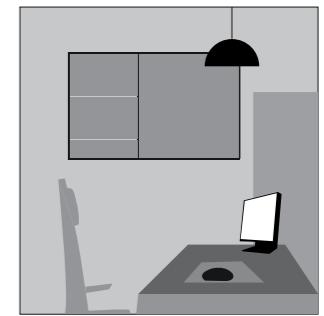
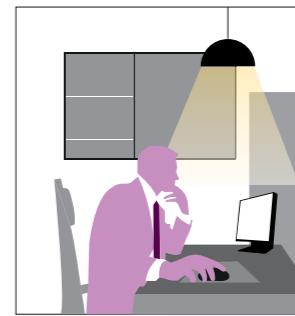
## Key features

- Automatic control
- Daylight override and switching
- Smart timer

## Daylight sensing

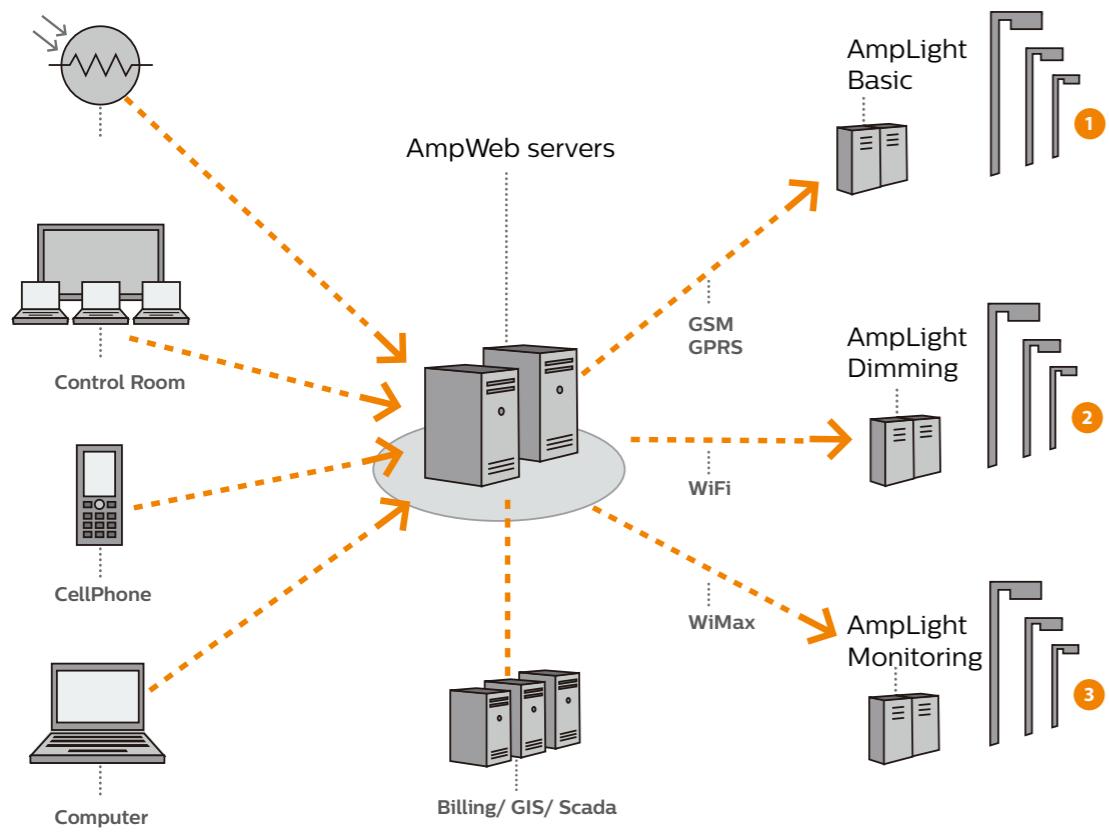


## Occupancy sensing



Applications

Private office



# AmpLight

The AmpLight- lighting control solution is a complete web-based solution with advanced communication and easy integration with existing installations.

It perfectly combines cost saving and less emission without compromising quality and safety.

- **Dimming at off-peak traffic hours**
- **Reduced maintenance costs**
- **Burn hour optimization**
- **Accurate switch ON/ OFF**

## AmpLight- full solution overview

### 1. AmpLight Basic

Provides basic on/ off functionalities via the CPU and a switch module. With optimizing the on/ off settings of the street lights, it results in **Wsavings of 8-10%\***.

### 2. AmpLight Dimming

Dimming module allows reduction in light level and hence lowers electricity consumption, **providing up to 35%\* energy savings**.

### 3. AmpLight Monitoring

With an additional module, the control cabinet is fully monitored and will immediately report power failures or cable breakages to the central server or via SMS to the supervisor.

### Key advantages

AmpLight solution monitors and controls the control cabinets and provides **additional energy savings of up to 35%\***. Key advantages of a centralized solution includes:

- Controls cabinet fault monitoring
- Automated reading of digital power meters in control cabinets
- Burn hour reports for proactive bulb change
- High up-time and immediate fault rectification
- One central photocell ensuring uniformity
- Improved quality of light
- Simplified maintenance
- Real-time control
- Load balancing and load shedding
- Area specific settings
- Fast reaction to special traffic or weather conditions

## Philips Dynalite range



### DDRC420FR Relay Controller

#### Robust control of switched loads

The Philips Dynalite DDRC420FR provides control of any type of switched load, including difficult lighting loads. The four-channel device supports all types of switched loads up to 20A inductive.



#### Key features

- Feed-through power circuit design
- Flexible mounting solution
- Inbuilt diagnostic functionality
- Multiple wiring schemes supported
- Hardware override

## Dynalite range

Philips Dynalite range of products comprises: controllers, into which lighting and other loads are connected; user interfaces, which give user the power to interact with the system; and integration devices, which are used to connect additional systems so they communicate/ perform seamlessly as one. A comprehensive suite of envision software products and network accessories completes our extensive offering.

#### Key benefits

- Preset lighting control
- Distributed control and monitoring
- Ease of installation and configuration
- Flexibility in design
- Energy savings
- Scalability
- Perfect LED dimming

### DDTC001 Timeclock

#### Tamper resistant time control

The DDTC001 timeclock provides a tamper resistant solution for time-based event control on a DyNet network.



#### Key features

- Remote programming
- Advanced clock controls
- Performs as an energy management controller
- Flexible mounting solution

### DLPE 9100 User control panels

#### Sophisticated and simple

A local control panel allows occupants to adjust the lighting control system to suit their requirements. There is a wide selection of options to enable the various functions required of the control system and to help users intuitively interact with different features.



# Lighting **Services**

## Value **beyond illumination**

New lighting technology combined with lighting controls is much more energy efficient than traditional lighting. It can also contribute to your business performance and success in more ways than you might imagine. Today's top lighting technology can increase operational efficiency, reduce seat cost/ employee through space optimization in an office environment, increase foot fall through enhanced shopper experience in retail, make a building or brand stand out of the crowd, expand an entertainment venue's source of revenue, and even help the healing process for patients in hospitals. With Philips Lighting as your partner, you can easily start benefiting from the dramatic difference that lighting can make. Upfront capital investment on your part may not even be necessary.



## End to end Solution Partner

We at Philips Lighting believe in providing a solution rather than a product and that is why we make business- effective lighting solution, a simple and streamlined process for our customers. Your industry segments' needs are extremely familiar to us, so you can count on us to reliably deliver or help coordinate any– or all– parts of the lighting solution you want, from concept design and detailed audit to complete lifecycle services. When you partner with Philips Lighting as an end to end solution partner, you're assured of results that give you maximum business impact and a committed lighting quality with minimum hassle and risk.

We focus on total value of ownership for our customers through this engagement and how we maximize this over the complete lifecycle. This effectively addresses a variety of business needs in terms of operational efficiency, sustainability, enhanced safety, increased revenue and shopper experience. A capable solution partner would derive value out of customized solution for specific requirements, optimizing the lighting design and focusing on benefits that go beyond illumination.

Delivering the agreed business benefits across the lifecycle of the delivered solution warrants a strong service commitment and a process driven approach to maximize the ROI and WWeenhance the life of your lighting asset deferring your CAPEX investment. That is why we at Philips Lighting have defined a suite of service offerings to complement and support your lighting investment.

Philips Lighting representatives are available whenever you need them to make sure your solution performs as expected.



A trusted partner to give you  
**peace of mind**

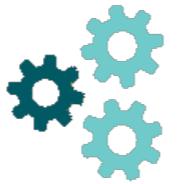
We listen and understand your needs



Global presence and local experience delivering multi-tiered support



One-stop shop: solutions and services across the lighting value chain



World-class innovation capabilities and deep application and system expertise. We have 12000 patents



Proven record of quality and reliability—no unpleasant surprises

Products designed for unique & demanding power conditions

**The next competitor is half of Philips size.**

## Range of value-adding services

Choose the combination of services you need



### Professional

Lighting audit, solution design



### Lifecycle

Maintenance, asset management



### Managed

Plan, build, finance, operate and maintain



### Project

Implementation, testing and commissioning





# Professional Services

A lighting service that fits your business needs:

- Lighting audit
- Energy audit
- Solution design
- Training services

Lighting audit	Energy audit	Solution design	Training services
<ul style="list-style-type: none"><li>• Age, condition and quantity of existing light fixtures</li><li>• Manufacturer and model number</li><li>• Wattage, type and model</li><li>• Electrical infrastructure</li><li>• End-user usage understanding</li></ul>	<ul style="list-style-type: none"><li>• Existing energy usage and expenditure</li><li>• Energy-saving strategies that work best</li><li>• System evaluation and interview with facility stakeholders</li></ul>	<ul style="list-style-type: none"><li>• Application choice</li><li>• Detailed lighting design</li><li>• Visualizations, customizations and mock up</li><li>• Lamps, luminaires, controls etc</li></ul>	<ul style="list-style-type: none"><li>• Application training</li><li>• New lighting technology</li><li>• Control systems</li><li>• Service engineer trainings</li></ul>



# Lifecycle Services

Choose the combination you need

## We support you in different ways:

If you have your own technical department or a trusted maintenance partner

- **We provide remote diagnostics and parts replacement**

If you have an outsource strategy, so that you can focus on your core activity

- **We take care of your lighting assets**

- Extension of warranty
- Covers manufacturing defects
- Spare management
- Resolution on a best effort basis
- Contact center/help desk: 9 x 5

### Extended warranty

- Complete spare management
- Spare inventory & obsolescence management
- Contact center/help desk: 9x5

- SLA based spare delivery
- After hour support (as per need)

### Parts management services

- Complete spare management
- Spare inventory & obsolescence management
- Contact center/help desk: 9x5

- Response/Resolution SLA
- After hour support (as per need)

- Labor: includes install/de-install
- Covers defects beyond manufacturing defects
- Preventive maintenance

### Light assure service



# Managed Services

Light as a service and circular economy benefits

**Operation and performance guaranteed by Philips:**

- Plan
- Build
- Finance
- Operate
- Maintain
- Upgrade/ reuse



Unique business model with compelling financing solutions including rental/lease or deferred payment model



High savings on energy and maintenance costs.



Performance based managed lighting solution and service



Taking responsibility to minimize CO2 emissions and waste of materials



# Project Services

Quick, cost-efficient and minimal disruption installation

## Complete management of the projects

- Project management
- Installation
- Commissioning and testing
- Integration and programing



### Project Management

Turn drawing board designs into a reality as smoothly as possible



### Installing your system

Right installations to ensure performance reliability far into the future



### Integration and programming

Integration of lighting systems with HVAC, IT systems and programming for PCK/AmpLight/Dynalite.

# Lighting **Academy**

## Taking the **lead in lighting**

Philips Lighting Academy is a special initiative of Philips India Limited. It was set up in late 2011 to foster multi-level learning on lighting theory, design, innovation and application in the company's internal and external stakeholders.

With digitization transforming lighting technologies and forcing paradigm changes in the ways lighting had been perceived and transacted for years the world over, it had become imperative to refresh traditional lighting knowledge and acquire new knowledge on digital technologies.



**Philips Lighting Academy brings simple, user-friendly e-learning, completely free, won its website on handpicked lighting subjects:**

- Introduction to lighting theory and application
- Understanding LED technology
- Lamps – Incandescent, Halogen and Fluorescent
- Introduction to luminaires

#### **“Winning Together” – a Philips Lighting Academy exclusive**

“Winning together” is a learning program specially conceived and designed primarily for architects, designers and electrical consultants. It brings easy online learning on a wide and comprehensive array of lighting subjects, ranging from LED technology, lamps and luminaires to creative lighting, architectural lighting and sustainability convenience.

**“Winning Together” also brings an exclusive series of webinars by Indian and Global experts, designed and developed for a select audience on such topics as:**

- Green Lighting Solutions
- Choosing your LED Products
- Standards and Lighting Design
- Intelligent Lighting System
- Light & Sustainability

#### **The Academy’s training tools:**

- Publications
- Online standalone learning modules
- Special online certifications by Philips Lighting Academy for standalone and short-term programs
- Webinars/ webcasts/ e-classrooms
- Exclusive live classroom sessions – a huge library of recorded lectures and webinars

Learning from Philips Lighting Academy is easy, affordable and fun. To know us better, visit us at <http://www.lighting.philips.co.in/education/lighting-academy-india.html> or write to us at [LiteAcademy.India@philips.com](mailto:LiteAcademy.India@philips.com)

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 Somajiguda, Hyderabad  
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 Fax :- 91 22 6691 2389 / 66912398  
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 Near Gujarat Vidyapith, Usmanpura,  
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 1860 180 1111, 0124- 4291111  
 "Standard call rates apply"

For more information contact us at [lighting.india@philips.com](mailto:lighting.india@philips.com) or call at **1800 102 2929**  
[www.lighting.philips.co.in](http://www.lighting.philips.co.in)

