PHILIPS

MISBAH UNITED

Waterproof

If you want to save energy and at the same time cultivate a 'green' image, then LED lighting is for you. The waterproof lighting fixtures bring pleasant ambience and clear visibility to all corners of a garage. The lights also have excellent dimming options and are easy to install.

Pacific LED Green Parking	Pacific LED WT460C	CoreLine Waterproof	GreenUp Waterproof
196	**198**	**200**	**202**

GreenPerform LED Waterproof	SmartBright LED Waterproof G2
204	**206**

Industrial   Parking

Pacific LED Green Parking

Combine safety with savings
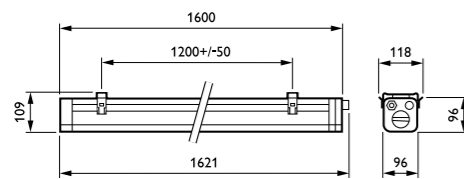
GreenParking system compatible

Lighting is needed in parking garages to provide safety and guidance. However, because it is not possible to predict exactly when light will be needed, the lighting is often left on. As a result, lighting energy costs can be as high as 70% of the total operational costs of a parking garage. Based on the newest LED technology and optics, Pacific LED Green Parking with presence-detection controls is an innovative, flexible and fully retrofit system for parking operators who want to reduce their energy consumption and the related CO_2 emissions – without compromising the safety and comfort that lighting offers parking garage users.
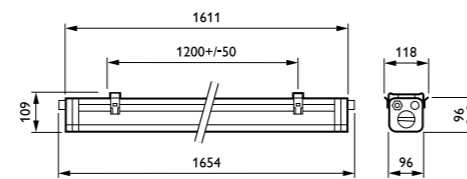
Features and Benefits

- Energy savings of up to 80% compared to fluorescent are achievable, without compromising on safety
- Fully retrofit system, no need for new cables; easy commissioning with self-addressing
- Full system warranty; service offer possible for 10 years guarantee
- Latest LED technology and optics
- Energy-efficient, and extended system lifetime due to dimming capability – ensuring good return on investment
- Robust components and system
- Easy installation due to wireless controls, sensors and easy commissioning with selfaddressing
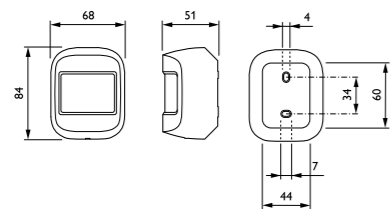- Offered as a complete system only

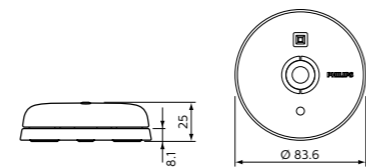### Product size

All dimensions in millimeters

Pacific LED Green Parking (system) WT460X

Pacific LED Green Parking (system) WT460X

Pacific LED Green Parking (sensors) WT460Z

Pacific LED Green Parking (sensors) WT460Z

80Khrs   110 lm/W

Technical parameters

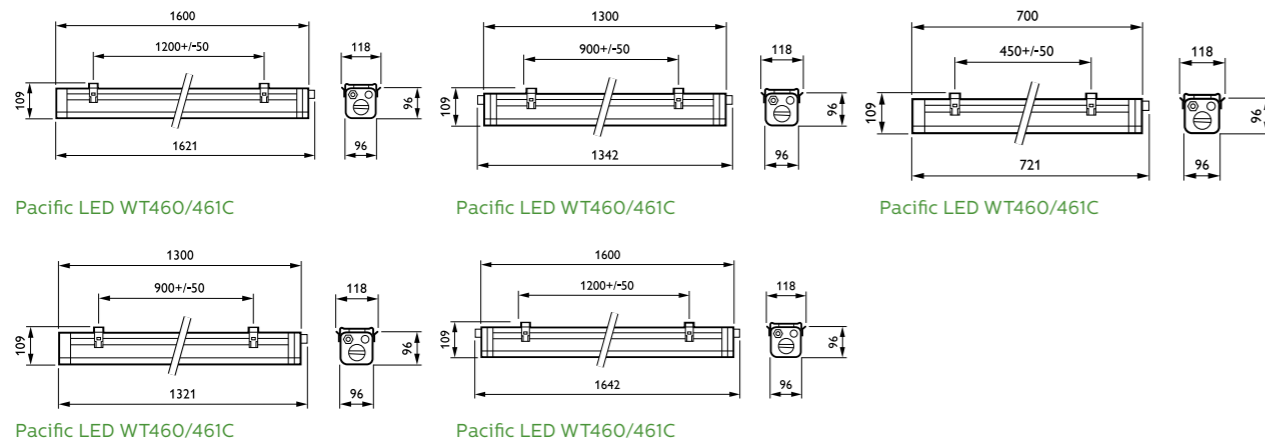|	
Type	WT460X
Light source	Philips Fortimo LEDline 3R
Power	28 to 58 W (depending on type)
Beam angle	50° (NB) 100° (WB) 120° (VWB)
Luminous flux	3500 to 6400 lm (depending on type)
Correlated Color Temperature	4000 K
Color Rendering Index	>80
Median useful life L70B50	80,000 hours
Median useful life L80B50	50,000 hours
Median useful life L90B50	25,000 hours
Driver failure rate	1% per 5000 hours
Average ambient temperature	25 °C
Driver	Built-in
Mains voltage	230 or 240 V / 50-60 Hz
Dimming	Integrated wireless control system with external IP65 sensors
Control system input	DALI; commissioning with remote control (supplied with system)
Options	Emergency lighting (integrated): 3 hours (EL3) Through wiring (TW1 or TW3)
Material	Housing: polycarbonate Ceiling clips: stainless steel Lenses: PMMA
Color	Grey, RAL 7035
Optic	Narrow (NB), wide (WB) and very wide (VWB) beam
Connection	Integral male / female connectors
Installation	Individual; locking the luminaire into pre-mounted ceiling plate (delivered with the luminaire) Through-wiring possible
Remarks	This solution is offered as a complete system only

Pacific LED WT460C

The efficiency champion to fit your application

The Pacific LED IP66 Waterproof is the efficiency champion to replace 1:1 fluorescent waterproof luminaires up to 2 x 80W, saving up to 60% on energy costs. The luminaire and its components like LEDs, drivers and optics are designed for a broad range of applications such as freeze cells, parking garages (typically low ceilings) or warehouses (high ceilings) and it is an ideal solution for food industries because it does not contain glass and easy to clean. For aggressive environments, the luminaire can be coated to become chemically resistant. To maximize energy savings, the luminaire can be equipped with a DALI driver or with integrated wireless controls (GreenParking). Next to that, all applications benefit from an extremely long lifetime up to 70,000 hrs. The luminaire is easy to install, thanks to the smart end-caps, providing diverse electrical connections like through-wiring or through connection.

Industrial **Parking**

Features and Benefits

- Up to 60 % energy saving compared with fluorescent waterproof solutions up to 2 x 80W
- Designed for extreme temperature conditions ranging from -30°C up to 45°C
- Diverse optics including a new optical system to provide comfortable lighting at low ceilings
- Due to mid-flux LED platform approach always the latest LED modules, ensuring top in class efficiency
- Low maintenance costs due to long lifetime of the system
- Fully serviceable light source
- Diversity in optics enables to fit every application

Product size

All dimensions in millimeters

Pacific LED WT460/461C

Pacific LED WT460/461C

Pacific LED WT460/461C

Pacific LED WT460/461C

Pacific LED WT460/461C

70Khrs **123 lm/W**

Technical parameters

Type	WT460C WT461C (chemical resistant version)
Light source	Philips Fortimo LEDline 3R
Power	17 to 52 W (depending on type)
Beam angle	2 x 62° (VWB) 2 x 23° (NB) 2 x 57° (WB) Lambertian distribution (O)
Luminous flux	2300 to 6400 lm (depending on type)
Correlated Color Temperature	4000 K
Color Rendering Index	80
Median useful life L70B50	70,000 hours
Median useful life L80B50	50,000 hours
Median useful life L90B50	25,000 hours
Driver failure rate	0,7 % per 5000 hours
Average ambient temperature	25 °C
Driver	Built-in
Mains voltage	230 or 240 V / 50-60 Hz
Control system input	Fixed output: PSU Dimmable: PSD with DALI
Options	Emergency lighting (integrated): 3 hours (EL3) Dimming Chemical resistant Through wiring (TW1 or TW3)
Material	Housing: polycarbonate (WT461C: with special coating for chemical resistance) Ceiling clips: stainless steel Lenses: PMMA
Color	Grey, RAL 7035
Optic	Narrow (NB), wide (WB) and very wide (VWB) beam Opal/comfort lenses (O)
Connection	Integral male / female connectors
Installation	Individual; locking the luminaire into pre-mounted ceiling plate (delivered with the luminaire) Through-wiring possible

CoreLine Waterproof
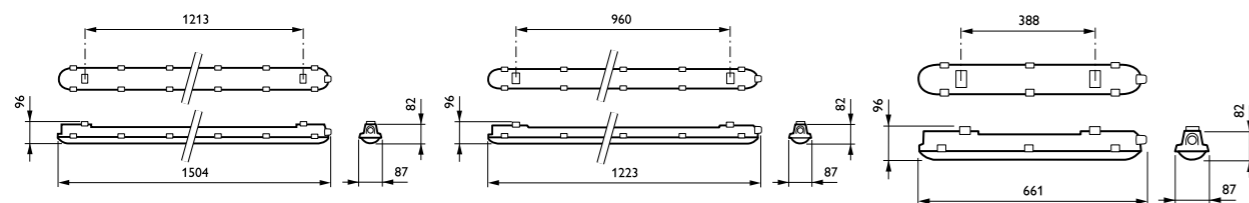
The clear choice for LED

Industrial

Parking

Whether for a new building or renovation of an existing space, customers want lighting solutions that provide quality of light and substantial energy and maintenance savings. The new CoreLine Waterproof range of LED products can be used to replace traditional waterproof luminaires with fluorescent lamps. The process of selecting, installing and maintaining is so easy – it's a simple switch.

Features and Benefits

- Up to 50% energy savings compared with TL–D
- Reliable LED technology – maintenance–free
- Direct replacement for conventional waterproof luminaires in terms of light performance, installation flexibility and length
- Reliable integrated LED technology, ensuring maintenance–free installation and a long lifetime
- Can be used to replace traditional waterproof luminaires ranging from 18 to 58W TL–D
- Wide–beam light distribution
- Diffuser with optical element ensures visual comfort
- Ceiling–mounted bracket and suspension hooks included; installation can be made vandal–proof by additional screw fixation of mounting brackets

Product size

All dimensions in millimeters

CoreLine Waterproof WT120C

CoreLine Waterproof WT120C

CoreLine Waterproof WT120C

IP65 **50Khrs** **105 lm/W**

Technical parameters	
Type	WT120C
Light source	LED module
Power	17 W (LED18S L600 version) 20 W (LED22S L1200 version) 38 W (LED40S L1200 version) 29 W (LED34S L1500 version) 57 W (LED60S L1500 version)
Beam angle	60°
Luminous flux	1800 lm (LED18S L600 version) 2200 lm (LED22S L1200 version) 4000 lm (LED40S L1200 version) 3400 lm (LED34S L1500 version) 6000 lm (LED60S L1500 version)
Correlated Color Temperature	4000 K
Color Rendering Index	≥ 80
Median useful life L70B50	50,000 hours
Median useful life L80B50	30,000 hours
Median useful life L90B50	15,000 hours
Driver failure rate	1% per 5000 hours
Average ambient temperature	25 ℃
Driver	Built-in, replaceable
Mains voltage	220-240V / 50-60 Hz
Dimming	DALI
Material	Housing: injection molded polycarbonate Diffuser: injection molded polycarbonate Closing clips: stainless spring steel
Color	Grey (RAL 7035)
Optical cover	Polycarbonate, clear with texture applied at the inside
Connection	Internal push-in connection with cable gland
Maintenance	No internal cleaning required
Installation	Fixation with ceiling mounted bracket Through-wiring possible Suspension possible After electrical installation in housing luminaire is closed by optical cover and closing clips
Options	Emergency lighting 3 hours duration
Remarks	All mounting accessories are included

IP65   40Khrs   Up to 105 lm/W

GreenUp Waterproof

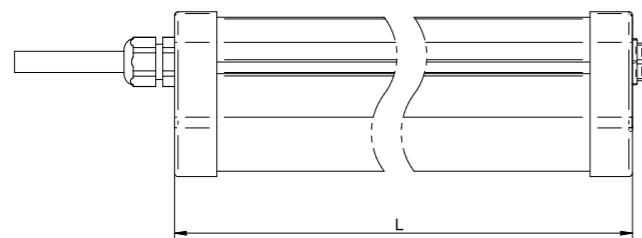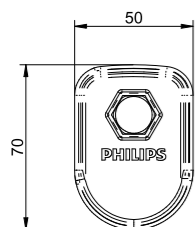## Energy-efficient lighting for industrial and commercial applications

GreenUp Waterproof is a high efficient and reliable LED luminaire, designed for industrial application with humid and dust protection requirement. It delivers significant energy savings of up to 62% as compared to conventional dual-T8 waterproof. Utilization of UVshield PC and extrusion process makes it suitable for semi-outdoor environments, and together with the built-in breather ensure a sound performance. With professional optic design and Philips LED module gives the most comfortable light experience of CRI 85.

Industrial   Parking

Features and Benefits

- High energy efficient
- Long lifetime
- Flexible installation
- System efficacy of 105lm/W
- 40,000hrs lifetime (Philips Lumileds and Xitanium®)
- CRI 85 (Professional optic design and Philips LED module)
- Sliding groove for installation
- UV-shield PC and extrusion process, and built-in breather

Technical parameters

Fixed Output (PSU)	1000lm	2000lm	1800lm	3800lm	4800lm
Dimmable	√	√	√	√	√
Output DALI (PSD)	√	√	√	√	√
System Power	46W	36W	20W	21W	11W
System efficacy (lm/W)	>104	>105	>90	>95	>90
Length	1450mm 1168mm 604mm				
CCT	CW (6500K)/ NW (4000K)				
Life time (hr)	40,000hrs (L70) @Ta 25°C				
CRI	85				
SDCM	< 5 SDCM				
IP rating	IP65				
IK rating	IK06				
Optic	Matt				
Power factor	>0.9				
Materials	Shading side: PC Diffusion side: UV - shielding & PC for thermal stability Sealant: DoW Corning744				
Accessories:	SUS301 stainless steel Breather: Donaldson Ta - 20°C ~40°C				
Classification	Class I				
Input Voltage	220 - 240V, 50/60 Hz				
Color	Dark grey RAL 7046				
Installation	Surface; Suspension				
Certificate	CB/EMC/AU&NZ/CE				

Product size

All dimensions in millimeters

50

70

Type	L
2 ft	604
4 ft	1168
5 ft	1450

L

GreenUp Waterproof WT118C

IP65   50Khrs   90 lm/W

GreenPerform LED Waterproof

Energy-efficient lighting for industrial and commercial applications

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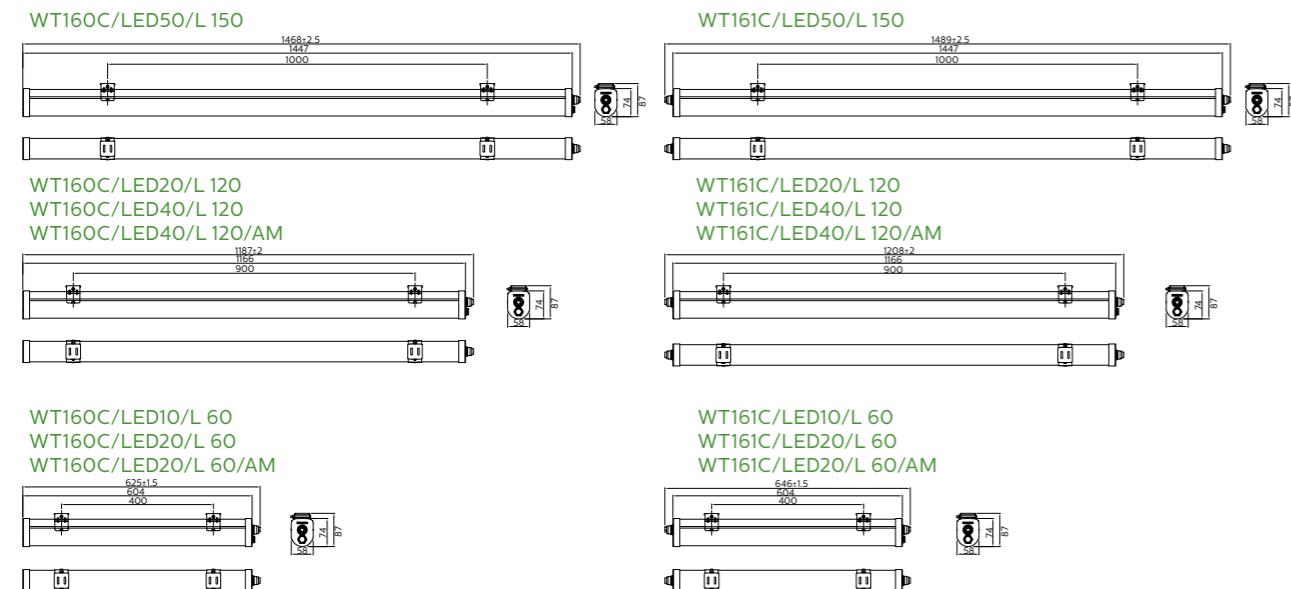
GreenPerform LED Waterproof is a high quality luminaire with a high system efficacy that delivers significant energy savings of up to 50% as compared to conventional T8 battens. With a reliable and robust housing structure, this maximizes the endurance and contributes to its long lifetime.

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

Features and Benefits

- Good energy savings
- Easy to install for various applications
- Quality lighting with good color uniformity
- Reliable and sustainable lifetime
- System efficacy of more than 90lm/w
- Stand alone and continuous version
- IP65 and IK08 ratings
- Lifetime of 50,000 hours with 70% lumen maintained

Technical parameters		
Product	GreenPerform LED Waterproof	
	WT160C	WT161C
Type	Standalone	Trunkable
System output	3800 lm / 1900 lm (4 ft) 1900 lm / 950 lm (2 ft) 4800 lm / 2400 lm (5 ft)	
Lifetime	50,000 hrs	
CCT	4000 K / 6500 K	
CRI	80	
SDCM	< 3.5	
Optics	Symmetrical wide beam (120°)	
Input voltage	220 – 240 / 50 – 60 Hz	
System efficiency	> 90 lm / W	
System wattage	40 W / 20 W (4 ft) 20 W / 10 W (2 ft) 50 W / 25 W (5 ft)	
Operating temperature	– 25°C < Ta < 40°C	
IP rating	IP65	
IK rating	IK08	
Classification	Class I	
Connection	Standalone / trunkable (max 25pcs in connection)	
Installation	Surface	
Dimension	74 x 58 x 625 mm (2 ft) 74 x 58 x 1187 mm (4 ft) 74 x 58 x 1487 mm (5 ft)	

Product size

All dimensions in millimeters

WT160C/LED50/L 150

WT161C/LED50/L 150

WT160C/LED20/L 120
WT160C/LED40/L 120
WT160C/LED40/L 120/AM

WT161C/LED20/L 120
WT161C/LED40/L 120
WT161C/LED40/L 120/AM

WT160C/LED10/L 60
WT160C/LED20/L 60
WT160C/LED20/L 60/AM

WT161C/LED10/L 60
WT161C/LED20/L 60
WT161C/LED20/L 60/AM

IP65 25Khrs Up to 90 lm/W

Industrial   Parking

SmartBright LED Waterproof G2
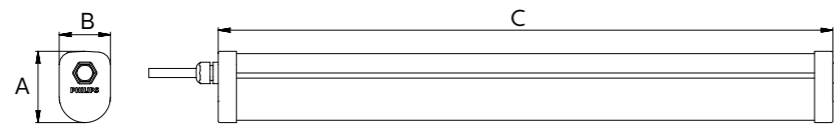
Hassle free design, long lasting performance

Philips SmartBright Waterproof lighting is an integral luminaire designed to operate in special environments where protection against dust and moisture ingress, as well as resistance to breakage are important considerations to ensure safety and performance. SmartBright Waterproof has a robust product design which meets IP65 and IK06 requirements to maximize the inherent advantages of LED performance even in tough environments. Furthermore, the integral product design ensures it is easy to install and use. Prefitted clamps which can slide along the product length allows for quick changes in installation positions. A direct substitute to conventional waterproof lighting, it provides the same level of light performance with the added benefits of energy savings, installation flexibility and long service life.

Features and Benefits

- Genuine IP65, IK06
- Integrated LED with built-in LED chip and driver
- Comes with stainless steel bracket and UV shielding
- Maintenance-free with long-lasting performance
- Long lifespan of 25,000hrs
- Sliding groove for easy change of installation places
- One to one replacement to all TL-D or T5. No re-lamping required.
- Up to 50% lower energy consumption compared to TL-D
- Slim design yet brighter with good lighting effect
- Parking lot, industry and corridors

Product size

All dimensions in millimeters

Type	A	B	C
WT099C LED45 PSU L1500	70	50	1450
WT099C LED36 PSU L1200	70	50	1168
WT099C LED18 PSU L1200	70	50	1168
WT099C LED18 PSU L600	70	50	604
WT099C LED9 PSU L600	70	50	604

Technical parameters

1 to 1 Replacement	1 X 18/14W	2 X 18/14W	1 X 36/28W	2 X 36/28W	2 X 58/54W
Length	600mm			1200mm	1500mm
Lumen	900lm	1800lm	1800lm	3600lm	4500lm
Power	9W	18W	18W	40W	50W
Color	CW (6500K) / NW (4000K)				
CRI	CRI >80				
SDCM	SDCM<5				
Light Surface Width	~65mm				
Lifetime	25,000hrs (L70B50) @Ta25˚C				
Control	Fixed Only				
System Efficiency	> 90lm/W				
Power factor	>0.9				
Connection quantity	max. 6				
Connect Interface	Terminal block push inside Through Wiring (max. 6 pcs) Flying wire 0.3M (ETO Option)				
IP rating	IP65				
IK rating	IK06				
Operation Temp.	–30°C~ 45°C				
Classification	Class II				
Input Voltage	220–240V, 50/60 Hz				
Color	Beige RAL7044				
Installation	Surface; Suspension				
Certificate	CB/EMC/CE/NZ&AU				