PHILIPS

Club Blue

Contractor guide
Trade LED luminaires

Quality meets versatility

for your key spaces and applications

Long-lasting, and low maintenance, LED lighting is here to support businesses of the world. Philips range of LED trade luminaires is an affordable, versatile range of LED lighting for the market. Offering you the quality and reliability that you are looking for.

Our LED trade luminaires range comprises of products to cover your key applications – downlights, floodlights, troffers and battens, all boasting high performance and cost efficiency. Designed to serve a comprehensive range of spaces – whether for residential or business, hotel or retail shops, indoor spaces or outdoor areas, the portfolio of our LED trade luminaires will be able to meet your diverse needs.

Our range of LED trade luminaires have long lifetimes, which means less maintenance and fewer replacements. The range also brings you significant energy savings compared with traditional lighting fixtures – making this a more sustainable lighting solution for you and your clients.

Switching to Philips LED trade luminaires is a breeze. Every product in the range is designed to enable hassle-free, 'hole-for-hole' retrofit replacement of similar conventional lighting fixtures without time consuming re-working.

Club Blue
is here

Club Blue is a contractor programme created by Philips Lighting Australia, for Australian electricians.

Club Blue will keep you up-to-date with the latest in LED and connected lighting technology and guide you to the right lighting solution, for whatever job you are working on.

- Free product offers and information
- Promotions
- Project case studies.
- Opportunity for free face-to-face LED training.
- Online training modules.
- Monthly newsletter

JOIN TODAY. IT'S FREE

We don't want to exclude anyone. That's why Club Blue costs nothing to join.

Go to **www.philips.com.au/ ClubBlue** to sign up today.

Get Educated

Although LED technology has been around for a while, it's only recently started to transform the lighting industry in Australia. With the opportunity for regular free face-to-face training events for Club Blue members, you will be able to keep up-to-date with the latest developments for you and your customers.

Common **LED myths**

There are many benefits to using LED lighting, but there are also numerous misconceptions about it. We help to separate the facts from fiction by busting some of the common myths.

Myth 1
LEDs last forever
LEDs have a long source life but they do still slowly fade over time. Ambient temperatures, electrical drive currents, and the effectiveness of cooling systems are all factors that contribute to this phenomenon called lumen depreciation. While LEDs typically do not catastrophically fail, lumen depreciation is a critical factor in determining useful lifetimes.

Philips designs our white light LED products to sustain 70% of initial lumen output (L70)

Myth 2
White LEDs produce over 180 lumens per watt
These results are often obtained in labs where LED chips are tested at room temperature conditions with short "pulse" tests that produce a high lumen output. While the results are not necessarily "wrong," they do not reflect the typical expected output of LEDs in practical use. When used in lighting fixtures, LED output often decrease by 30-40%.

Philips does not use raw LED specifications or "instant on" output testing. Instead, we use independent testing labs to validate the output of our fixtures at constant, realistic thermally-stable operating temperatures in rated, ambient environments.

Myth 3
3 Watt LEDs are brighter than 1 Watt LEDs
The wattage of a LED is not directly comparable to the wattage of a traditional light source or even from one LED to another. Two different LEDs can consume the same power but differ noticeably in light output. Thus, when selecting LEDs or LED fixtures, it is more about a quality and consistent light output rather than absolute power.

Philips develops solutions based on the light output, distribution and quality needed for the application and not based on the particular wattage of LEDs.

Myth 4
LED light quality is poor
The Colour Rendering Index (CRI) is the prevalent method used to judge light quality, though there are known deficiencies and limitations associated with it, especially for LED-based light sources. Research in at least one study found participants preferring LED sources over halogen and incandescent because of overall colour appearance, not a CRI value. The International Commission on Illumination (CIE) has proposed a new metric called Colour Quality Scale (CQS), which will incorporate colour rendering, chromatic discrimination and observer preferences into the measure of Colour Quality.

Philips works to design high quality and consistent light output. We measure our colour consistency in SDCM (Standard Deviation of Colour Matching).

Myth 5
LEDs generate no heat
When used in lighting applications, LEDs do not radiate infrared heat, only visible light. However, waste heat is produced during the conversion of electricity into light. If not properly removed from the lighting system, this may potentially damage the LEDs. Heat removal can be accomplished through heat sinks that draws heat away from the LED and dissipate it into the surrounding air.

Philips designs, simulates and tests our products for high thermal efficiency to ensure optimal performance and maximise the lifetime of our LEDs.

Myth 6
LEDs are not resistant to vibration
There are no moving parts, filaments or fragile glass enclosures with LED lighting. LEDs are therefore very suitable for use in a wide range of applications.

Philips designs products that must pass vibration tests according to IEC standards. In some cases, we use military standards for higher grade of assurance.

Myth 7

LED systems cost too much

The initial investment of LED systems is higher than that of conventional systems, but due to the long life of the LED and energy savings ranging between 50%-70% compared to conventional light sources, the economic payback can typically be seen in less than two years. Additionally, the upfront cost of LED systems is also dropping rapidly.

Philips provides cost-effective solutions that have a proven and compelling return on investment (ROI).

Myth 8

LEDs are not bright enough

LED traffic lights are already common and are certainly a sign that LEDs are bright enough to be seen even in daylight. Outdoor roads, tunnels and entire building façades are being lit entirely with LEDs today. By any measure, LEDs have enough light output for use even in very large outdoor daylight-visible installations.

Philips products have been used in more than 20,000 installations worldwide, including large exterior projects such as the Stamford Bridge Stadium (Chelsea Football Club), Al Saad Stadium (Doha, Qatar) and Federal Highway (Malaysia).

Myth 9

LED lights are dangerous to our eyes

There is a small amount of blue light generated by LED but it is a tiny fraction of the emissions from natural daylight, and similar to emissions from other artificial light sources like incandescent, halogen and energy savers or fluorescent lamps. Typical daily exposure to natural blue light is at least 1,000 times stronger compared to artificial light indoors

Philips LED products comply with all the relevant regulations and legislation, ensuring products are safe to use. This means that being exposed to a LED light is as safe as being exposed to any other artificial light source, and safer than being exposed to natural lighting conditions – such as walking in the open air.

Take the next step

See how Philips LED trade luminaires range can flexibly address your business needs.

Contact your local Philips sales Representative for more information or call 1300 304 404
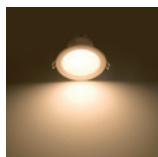
Why Philips downlights?

A downlight provides general and even lighting with a wide beam angle. It can play a primary or secondary role in your lighting design, and is suitable for places such as living room, bedroom, study room, corridor and kitchen.

Wide beam angle
More coverage, better illumination

Anti-glare diffuser
Gives a soft, even glow

Beam angle 100°

 Even and comfortable light

Brighter illumination

Philips LED provides greater energy efficiency when compared to similar LED lights with the same wattage and colour temperature, ensuring you brighter illumination for the same consumption.

Lumen determines the overall brightness of the bulb. **Therefore, the bigger the lumen value the brighter the light.**
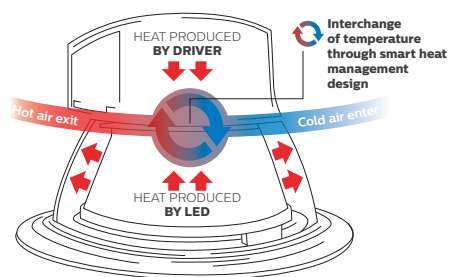
Up to 15,000 hours long life

Quality light for natural colours

Reliable quality

Though LEDs generally have a long lifespan, they are sensitive to heat, and may reduce in lifespan if overheated. Philips lights are designed to counter the heat generated from the driver, as well as the heat emitted from the light source.

Philips heat management design

HEAT PRODUCED
BY DRIVER

Interchange of temperature through smart heat management design

Hot air exit

Cold air enter

HEAT PRODUCED
BY LED

Some LEDs may boast of a long lifespan but as time passes it may lose its brightness and effectiveness. **Philips ensures that our lights last at least up to 15,000 hours (at L70) to maintain brightness.**

Natural colours

Better quality lights are able to reproduce colours naturally. The Colour Rendering Index (CRI) is a gauge that ranges from 1 – 100, and a higher value provides better colour quality.

CRI chart

CRI < 60	CRI < 70	CRI > 80

Good CRI

Low CRI

Philips LED downlights have a CRI value above 70.

Trade LED luminaires

GreenSpace Gen 4
Downlight
(DN29X series)

10

Essential SmartBright
Downlight
(DN024B)

11

GreenSpace Power
Downlight
(DN28X-8 series)

12

GreenSpace Surface
Mounted Downlight
(SM29X series)

13

CoreRange
Batten - Standalone
(BN188C)

14

CoreRange
Batten - Trunkable
(BN189C)

15

SmartBright
LED Batten
(BN012C)

16

Essential
SmartBright
Slim Batten
(BN068C)

17

Vandalite
Vandal and Waterproof
Batten (BCW098)

18

Coreline
Waterproof Batten
(WT120C)

19

Coreline 2.5
LED Troffer
(RC100C, SM100C)

20

Green-Up
Highbay
(BY550P)

21

GreenPerform
Highbay Gen3
(BY698P)

22

Tango Gen2
LED Floodlight
(BVP281/
BVP282)

23

Essential
SmartBright
LED Floodlight
(BVP161)

24

Metro LED
(BGS007)

25

LED Slimline
Oyster
(3181X)

26

Twin Motion
Sensor
(EH313L)

27

GreenSpace Gen 4
Downlight

Benefits

· Energy-efficient. Up to 105lm/W
· Comprehensive range. From 650lm – 2300lm, three
  cut-out sizes and two colour temperatures
· Available in white and aluminium reflector

Family Name	GreenSpace Gen 4 LED Downlights			
Model	DN290B – Micro	DN291B – Mini	DN292B – Compact	DN293B – Compact Power
Lumen/Watt	DN290B Fixed – 7W @ 650lm, 93lm/W	DN291B Fixed – 11.5W @ 1100lm, 95lm/W DN291B DALI – 12.4W @ 1100lm, 88lm/W	DN292B Fixed – 16.4W @ 1600lm, 97lm/W DN292B DALI – 15.4W @ 1600lm, 103lm/W	DN293B Fixed – 22.3W @ 2300lm, 103lm/W DN293B DALI – 20.8W @ 2200lm, 105lm/W
CCT	3000K, 4000K			
CRI	83			
Flex and Plug	Yes			
Lifetime (L70@25℃)*	50,000hrs			
Unified Glare Ratio (UGR)	≥23-25			
Material	WH - PC diffuser with white reflector & trim			
	ALU - PC diffuser with aluminium reflector, temper glass front cover & white trim			
Driver	PSU - Integrated fixed output driver			
	PSD - External DALI-compatible driver			
Installation	Recessed mounting with flexible spring clips			
IP Rating	IP20, IP54** (WP)			
AS/NZS classification	IC rated (Abutted & Covered)			
Colour of Housing	White			

White Reflector Range

Model	Cut-out (mm)	Diameter (B) (mm)	Height (A) (mm)	Weight (kg)
DN290B WH (WP)	105	122	95 (99)	0.28 (0.46)
DN291B WH (WP)	150	167	105 (109)	0.38 (0.5)
DN292B/DN293B WH (WP)	200	218	114 (118)	0.5 (0.63)

Aluminium Reflector Range

Model	Cut-out (mm)	Diameter (B) (mm)	Height (A) (mm)	Weight (kg)
DN290B ALU and WP	105	122	95	0.46
DN291B ALU and WP	150	167	109	0.6
DN292B/DN293B ALU and WP	200	218	118	0.85
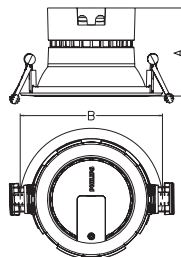
*When the fitting reaches 70% of full potential (new) **IP54 available for selected range only
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

Essential SmartBright
Downlight
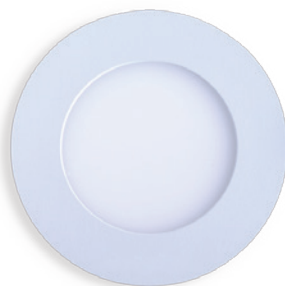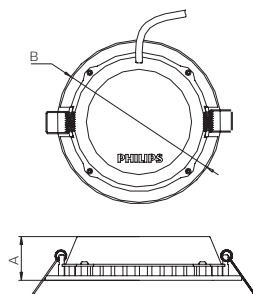
Benefits
· Compact design for greater functionality and versatility
· Integrated design, lightweight and easy to install
· Multiple output options for various applications
· IC-4 rated – ideal for residential/ domestic applications

Model	Essential SmartBright Downlight (DN024B)			
Cut-out sizes	90-95mm	133-138mm	158-163mm	183-188mm
Power	10W	15W	20W	20W
Lumen	600lm	900lm	1200lm	1200lm
IP rating	IP20	IP20	IP20	IP20
Beam angle	110°			
CCT	3000K (WW) / 4000K (NW)			
CRI	>80			
SDCM	≤7			
Operating temperature	–20˚C < ta < 40˚C			
Lifetime (L70@25˚C)*	15000hrs			
Type	Fixed Output			
Power factor	>0.75			
Electrical class	Class II			
Mounting type	Recessed			
Wiring	1.2m pre-wired AU flex & plug			
Housing colour	White (RAL9003)			
Material	Optics: Semi-transparent PMMA diffuser			
	Housing: Aluminium die cast ring, polycarbonate back cover			
Applications	Residential			

Model	Cut-out (mm)	Diameter (B) (mm)	Height (A) (mm)	Weight (kg)
DN024B10WWWF90	90-95	106	33	0.23
DN024B10WNWF90	90-95	106	33	0.23
DN024B15WWWF133	133-138	147	33	0.30
DN024B15WNWF133	133-138	147	33	0.30
DN024B20WWWF158	158-163	173	33	0.38
DN024B20WNWF158	158-163	173	33	0.38
DN024B20WWWF183	183-188	198	33	0.45
DN024B20WNWF183	183-188	198	33	0.45

*When the fitting reaches 70% of full potential (new)
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

GreenSpace Power
Downlight

Benefits

- Ideal replacement for 2x18W and 2x26W PLC
- Downlights suitable for high ceiling applications
  – up to 4500lm
- Significant system efficacy at up to 95lm/W

Family name	GreenSpace Power 2 LED Downlight	
Model	DN284B-8	DN285B-8
Cut-out	200~205mm	200~205mm
Replacement	2x18W PLC Downlights	2x26W PLC Downlights
Power	34W	41W
System lumen & Efficacy	3000K: 3450lm/ 101lm/W	3000K: 4250lm/ 104lm/W
	4000K: 3650lm/ 107lm/W	4000K: 4500lm/ 110lm/W
Power factor	0.9	
CCT	3000K / 4000K	
CRI	>80	
Driver type	Fixed output	
Beam angle	100°	
SDCM	≤4	
Operating temperature	–20℃ < ta < 40℃	
Lifetime (L70@25℃)*	50,000hrs	
IP rating	IP20	
UGR	≤24	
Mounting type	Recessed, fixed by spring tension clips	
Housing colour	White	
Material	Optics: MCPET high reflectance film, PMMA diffuser with high haze and light transmission	
	Reflector: High purity aluminium, high reflectance coating	
	Driver box: PC plastics	
	Clips: Piano wire spring clip, PC plastic clip	

Model	Cut-out (mm)	Diameter (B) (mm)	Height (A) (mm)	Weight (kg)
DN284B-8	200~205mm	234	117	0.5
DN285B-8	200~205mm	234	117	0.5
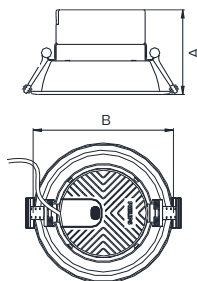
*When the fitting reaches 70% of full potential (new)
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

GreenSpace Surface Mounted Downlight

Benefits

- Energy efficient (up to 100lm/W) solution compared to CFL/CDM equivalent
- Integrated design, lightweight and easy to install
- Multiple output options for various applications

Model	SM291C	SM293C	SM294C	SM295C	SM294C WP	SM295C WP
Replacement	1x26W CFL	2x26W CFL/ 35W CDM	70W CDM	150W CDM	70W CDM	150W CDM
Power	10W	20W	38W	66W	38W	66W
System lumen & efficacy	3000K: 930lm/ 93lm/W 4000K: 1000lm/ 100lm/W	3000K: 1860lm/ 93lm/W 4000K: 2000lm/ 100lm/W	3000K: 3470lm/ 91lm/W 4000K: 3800lm/ 100lm/W	3000K: 6600lm/ 100lm/W 4000K: 6600lm/ 100lm/W	3000K: 3800lm/ 100lm/W 4000K: 3800lm/ 100lm/W	3000K: 6600lm/ 100lm/W 4000K: 6600lm/ 100lm/W
Beam angle	90°	90°	60°	60°	60°	60°
IP Rating	IP20	IP20	IP20	IP20	IP65	IP65
CCT	3000K / 4000K					
CRI	> 80					
SDCM	< 5					
Operating temp.	−20°C < ta < 40°C					
Lifetime (L70@25°C)*	50,000hrs					
Type	Fixed Output					
UGR	≤ 24					
Power factor	> 0.90					
Electrical class	Class I					
Mounting type	Surface Mounted					
Housing colour	White					
Material	Optics: MCPET high reflectance film, PC diffuser with high haze and light transmission					
	Reflector: High purity aluminium, high reflectance coating					
	Front Housing: PC, Rear Housing: Aluminium					

Model	Cut-out (mm)	Diameter (B) (mm)	Height (A) (mm)	Weight (kg)
SM291C LED10	200~205mm	160	135	0.6
SM293C LED20	200~205mm	160	135	0.6
SM294C LED40	200~205mm	160	170	0.8
SM295C LED70	200~205mm	200	239	2.2
SM294C LED40 WP	200~205mm	200	239	0.8
SM295C LED70 WP	200~205mm	200	239	2.2
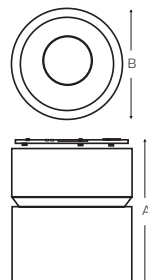
*When the fitting reaches 70% of full potential (new)
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.
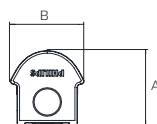
CoreRange
Batten – Standalone

Benefits

- Ideal as a T8 batten replacement
- Integrated design, lightweight and easy to install
- Multiple output options for various applications

Family name	CoreRange LED Batten – Standalone (BN188C)	
Model type	BN188C LED20 L600	BN188C LED40 L1200
Equivalent of	2x18W	2x36W
Power	22W	37W
Lumen	2100lm	4000lm
Power factor	0.95	0.95
Beam angle	120°	
CCT	4000K (NW)/ 6500K (CW)	
CRI	>80	
SDCM	≤5	
Operating temperature	Ta:25˚C (–20˚C < ta < 40˚C)	
Lifetime (L70@25°C)*	50,000hrs	
Type	Fixed Output	
IP rating	IP20	
Electrical class	Class I	
Input voltage	220V–240V, 50/60Hz	
Mounting type	Surface mount (brackets included), Suspended (accessories to be purchased separately)	
Housing colour	White (RAL9010)	
Material	Frosted cover: PMMA	
	Housing: 0.6mm SPCC	
Mounting accessories	Surface mount brackets for asymmetric Installation, 2x pcs (BY208Z MB–A)	
	Surface mount brackets for symmetric installation, 2x pcs (BY208Z MB–S)	
	Suspension brackets for asymmetric Installation, 2x pcs (BY209Z MB–A)	
	Suspension brackets for symmetric Installation, 2x pcs (BY209Z MB–S)	
	Suspension pole 1.5m, 2x pcs (BY208Z SP) – suspension brackets required, please order separately	
Application	Warehouses, back of house areas, indoor car parks, factories	

Model	Height (A) (mm)	Width (B) (mm)	Length (C) (mm)	Weight (kg)
BN188C LED20 L600	58	573	57	0.8
BN188C LED40 L1200	58	1135	57	1.7

*When the fitting reaches 70% of full potential (new)
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

CoreRange
Batten – Trunkable

Benefits
- Ideal as a T8 batten replacement
- Integrated design, lightweight and easy to install

Family name	CoreRange LED Batten - Trunkable (BN189C)
Model type	BN189C LED40 L1200
Equivalent of	2x36W
Power	37W
Lumen	4000lm
Power factor	0.95
Beam angle	120°
CCT	4000K (NW)/ 6500K (CW)
CRI	>80
SDCM	≤5
Operating temperature	Ta:25˚C (−20˚C < ta < 40˚C)
Lifetime (L70@25°C)*	50,000hrs
Type	Fixed Output
IP rating	IP20
Electrical class	Class I
Input voltage	220V–240V, 50/60Hz
Mounting type	Surface mount (brackets included), Suspended (accessories to be purchased separately)
Housing colour	White (RAL9010)
Material	Frosted cover: PMMA
	Housing: 0.6mm SPCC
Trunking accessories	Connection block (BY208Z TB)
	Connecting cable 0.6m (BY208Z C600–P)
	Connecting cable 0.2m (BY208Z C200–P)
	Power cable 0.2m (BY208Z C-2)
Mounting accessories	Surface mount brackets for asymmetric Installation, 2x pcs (BY208Z MB–A)
	Surface mount brackets for symmetric installation, 2x pcs (BY208Z MB–S)
	Suspension brackets for asymmetric Installation, 2x pcs (BY209Z MB–A)
	Suspension brackets for symmetric Installation, 2x pcs (BY209Z MB–S)
	Suspension pole 1.5m, 2x pcs (BY208Z SP) – suspension brackets required, please order separately
Application	Warehouses, back of house areas, indoor car parks, factories

Model	Height (A) (mm)	Width (B) (mm)	Length (C) (mm)	Weight (kg)
BN189C LED40 L1200	57	58	1135	1.8
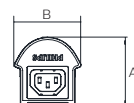
*When the fitting reaches 70% of full potential (new)
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.
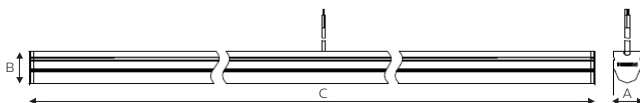
SmartBright
LED Batten

Benefits

- Ideal replacement for 1x36W and 1x18W T8 batten
- High system efficacy of up to 90lm/w
- Central and side cable entry with pre-wired 1.5m cable
- Low maintenance with lifetime up to 25,000 hours at L70

Family name	SmartBright LED Batten
Model type	BN012C
Lumen/Watt	LED10 - 11W/ 1000lm/ 90lm/W
	LED20 - 21W/ 2000lm/ 90lm/W
CCT	4000K (NW), 6500K (CW)
CRI	80
Flex	Pre-wired 1.5m flex
Lifetime (L70@25℃)	25,000hrs*
SDCM	≤6
Power factor	0.8
Operating temperature	25℃
Driver	Integrated fixed driver
Dimmable	Non dimmable
Installation	Surface mounted, Suspended**
IP rating	IP20
Material	Housing and diffuser: PC
	Brackets: Stainless steel
Application	Stairwells, back of house areas, garages

Model	Width (A) (mm)	Height (B) (mm)	Length (C) (mm)	Weight (kg)
LED10	30	37	600	0.19
LED20	30	37	1200	0.29

*When the fitting reaches 70% of full potential (new) **Suspension kit not included, to be purchased externally
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

Essential SmartBright
Slim Batten

Benefits

- Uniform light quality
- Integrated design, lightweight and easy to install
- Ideal for cove, under cabinet/ panels application
- Semi-transparent end caps – no dark spots when linking up to 10 pieces

Family name	Essential SmartBright LED Batten (BN068C)	
Model type	BN068C LED5	BN068C LED11
Power	7W	14W
Lumen	600lm	1200lm
Power factor	0.5	0.5
Beam angle	140°	
CCT	3000K (WW)/ 4000K (NW)/ 6500K (CW)	
CRI	>80	
SDCM	≤7	
Operating temperature	Ta:25˚C (-20˚C < ta < 40˚C)	
Lifetime (L70)	15,000 hours	
Type	Fixed Output	
IP rating	IP20	
Electrical class	Class II	
Input voltage	220V-240V, 50/60Hz	
Mounting type	Surface mount (brackets included)	
Housing colour	White	
Material	One piece PC extrusion housing	
Linkable	Maximum 10 pcs	
Accessories	1.2m cable with plug (ZCH068 L1200 AU)	
	265mm connecting cable (ZCH068 C-2 AU)	
Application	Residential application such as cove lighting, under cabinet, panels etc	

Model	Width (A) (mm)	Height (B) (mm)	Length (C) (mm)	Weight (kg)
BN068C LED5	21	596	34	0.12
BN068C LED11	21	1196	34	0.21

Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

# Vandalite
Vandal and Waterproof Batten

Benefits

· Robust design and vandal–proofness
· Reliable system performance
· Comfortable light quality

Family name	BCW098	
Lumen	4000lm	2000lm
Power	38W	19W
CCT	NW (4000K)	
CRI	> 80	
SDCM	<5 SDCM	
Optic	Matt	
Material	UV resistance PC housing / UL Yellow Card certificate –F1	
IP rating	IP65	
IK rating	IK10	
Surge protection	2KV	
Classification	Class I	
Input voltage	220-240V, 50/60 Hz	
Power factor	> 0.9	
Mounting	Surface/Wall mounted	
Operating temperature	–20˚C to + 45˚C	
Lifetime	50,000hrs (L70B50) @Ta 35˚C	

Model	Width (A) (mm)	Height (B) (mm)	Length (C) (mm)
BC W098 LED20	100	85	617
BCW098 LED40	100	85	1169
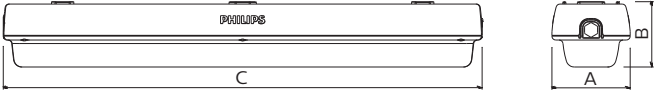
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.
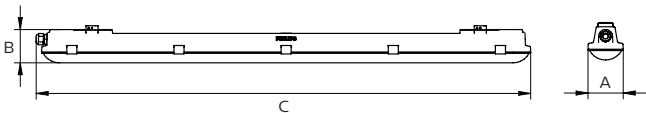
Coreline
Waterproof Batten

Benefits

· Reliable LED technology – low maintenance
· Sleek design to create traditional look and feel
· Wide-beam light distribution

Family name	WT120C				
Lumen	6000lm	4000lm	3400lm	2200lm	1800lm
Power	57W	41W	29W	23W	19W
CCT	4000K				
CRI	80				
Flex and Plug	No				
Lifetime	50,000hrs				
Unified Glare Ratio (UGR)	UGR23				
Dimmable	PSU (Fixed)				
IP rating	IP65				
IK rating	IK08				
Housing colour	Light Grey				
Application	Industry, Parking, Semi Outdoor, Under Canopy				
Accessories	Mounting bracket (2pcs), suspension hook (2pcs), anti-vandal screws (2pcs), grommet (2pcs), cable gland (2pcs)				

Model	Width (A) (mm)	Height (B) (mm)	Length (C) (mm)
19W	87	82	661
23W/41W	87	82	1223
29W/57W	87	82	1523

Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

Contractor guide – Trade LED luminaires

19

Coreline 2.5
LED Troffer

Benefits

- Affordable LED office compliant lighting
- High system efficacy of up to 112lm/w
- Comfortable light with minimal glare creates an improved working environment

Model type	RC100C (recessed)		SM100C (surface mounted, suspended)	
Lumen	2700lm	3900lm	2700lm	3900lm
Power	24W LED25S	37W LED35S	24W LED25S	37W LED35S
UGR	UGR18 (600x600) UGR20 (300x1200)	UGR19 (600x600) UGR18 (300x1200)	UGR18 (600x600) UGR20 (200x1200)	UGR19 (600x600) UGR21 (200x1200)
Lifetime	50,000hrs			
CCT	4000K			
CRI	80			
SDCM	≤4			
Power factor	0.9			
Operating temperature	25°C			
Optics	PMMA optical lens			
Driver	Integrated fixed driver (DALI version available on request)			
Installation	T-Bar and Plaster Recessed, Surface Mounted and Suspended**			
IP rating	IP20			
Material	Housing: SPCC (0.5mm), White powder coat finishing (RAL9016)			
	Diffuser: PC, PMMA optical lens (for UGR19 option only)			
Colour	White			
Application	Commercial buildings, Open office, Cell office, Hospital			
Accessories	Suspension kit and Plaster recessed kit sold separately			

Model	Width (A) (mm)	Height (B) (mm)	Length (C) (mm)	Weight (kg)
RC100C – Rectangle	297	30	1197	2.8
RC100C – Square	597	30	597	2.8
SM100C – Rectangle	197	36	1197	3.7
SM100C – Square	597	36	597	4.4
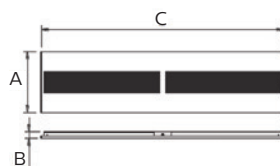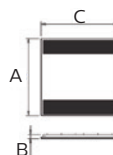
*When the fitting reaches 70% of full potential (new)
**Plaster trim kit to be purchased separately. Suspension kit sold separately and to be used on surface mounted version only.
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

Contractor guide – Trade LED luminaires

Green-up
Highbay

Benefits

- Long lifetime of 70,000 hours at L70
- Ideal replacement for HID high-bays
- Comfortable light with low glare and accurate colour

Model type	BY550P		
Lumen	10500lm	13650lm	21000lm
Power	80W	105W	160W
Lifetime	70,000hrs		
CCT	CW (6500K)/ NW (4000K)		
CRI	>85		
SDCM	<3.5 SDCM		
Optic	WB Wide Beam, NB Narrow Beam, HRO High Rack Optic		
Temperature	-20°C to +40°C		
Driver	Philips Xitanium driver		
Materials	Body: steel		
	End caps: plastic		
	Lens: optic PMMA		
Colour	White with silver end caps		
IP rating	IP20		
Classification	Class I		
Input voltage	220-240V, 50/60 Hz		
Power factor	> 0.90		
Installation	Suspended		

Model	Width (A) (mm)	Height (B) (mm)	Length (C) (mm)
BY550P LED200	380	77	720
BY550P LED140	380	77	720
BY550P LED100	380	77	440
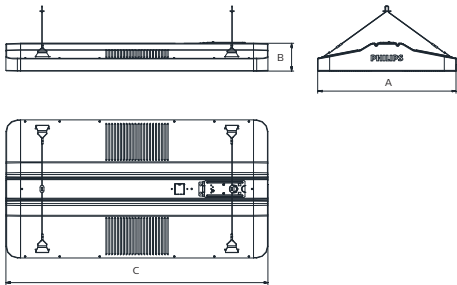
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

GreenPerform
Highbay Gen3

Benefits

- System efficacy of 130lm/W
- Superb light quality
- Safe and reliable – IP65/IK07 rating
- Lifetime of 50,000 hours at L70B50

Model type	BY698P (LED110/160/200/300)			
Lifetime L70B50	50,000hrs@Ta35℃			
Operation Temperature	–30℃ to +50℃			
IP/IK rating	IP65 / IK07			
Installation	Hook (included) or bracket, 3m flying lead			
Lumen	11000lm	16000lm	20000lm	29000lm
Power	85W	120W	155W	225W
CCT	NW, 4000K (CW, 6500K available on request)			
CRI	>80			
Beam Angle	NB Narrow Beam, WB Wide Beam, E-NB Extreme Narrow Beam			
Input Voltage	220–240V, 50/60 Hz			
Driver	PSU (Fixed Output)			
Power factor	PF 0.95			
Surge	L,N 2KV; L,N–GND 4KV			
Housing material	Aluminium Die-cast			
Optical material	Lens Cover: Optical PC			
Applications	Production areas, warehouses, and open spaces			

Model	Depth (A) (mm)	Height (B) (mm)	Width (C) (mm)
BY698P LED110	379	96	382
BY698P LED160	417	105	418
BY698P LED200	452	107	454
BY698P LED300	530	120	534
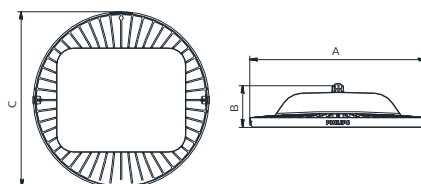
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

Tango Gen2
LED Floodlight

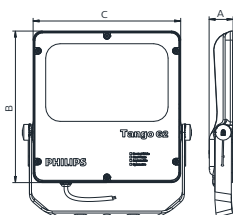
Benefits

- Ideal replacement for conventional HID floodlights
- Lifetime of up to 50,000 hours at L70
- Low maintenance

Model type	BVP281			BVP282	
Voltage	220–240V 50/60Hz			220–240V 50/60Hz	
Power factor	0.95			0.95	
Power	40W	80W	120W	160W	200W
Lumen	4400lm	8800lm	13200lm	17600lm	22000lm
CRI	Min. 80			Min. 80	
CCT	NW Neutral White, CW Cool White				
Optics	SWB Symmetric Wide Beam, AMB Asymmetry Medium Beam				
Materials and finishing	Housing: Die-cast aluminium				
	Gasket: Heat resistant silicone rubber				
	Lens: Tempered glass				
	Colour: Grey Aluminium RAL9007				
Lifetime	50,000hrs (70% lumen maintenance @ Ta =35˚C)				
Installation	Universal Bracket				
Weight	6.0 – 6.5kg			11.8 Kg	
Classification	IP65; IK07; Class I				
Operating Temperature	–40˚C to +45˚C (Outdoor)				
Surge protection	10KV				

Model	Depth (A) (mm)	Height (B) (mm)	Width (C) (mm)
BVP281	60	370	360
BVP282	60	420	650

BVP281
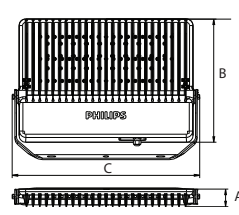
BVP282

Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

# Essential SmartBright
LED Floodlight

Benefits

- Long lasting performance of up to 30,000 hours at L70
- Pressure die-cast housing offers excellent corrosion-resistance and robustness
- 600mm flying lead for ease of installation

Model Type	BVP161			
Power	30W	50W	70W	100W
Lumen	2700lm	4500lm	6300lm	9000lm
CCT	4000k			
CRI	70			
SDCM	5			
Volt/Frequency	220-240V/50~60Hz			
Power factor	0.9			
IP rating	IP65			
IK rating	IK07			
Lifetime	30,000hrs @ Ta 35°C			
Ambient temperature	–40°C to +45°C			
Colour	Grey			

Model	Depth (A) (mm)	Height (B) (mm)	Width (C) (mm)
30W	34	143	194
50W	38	202	270
70W/100W	41	234	234
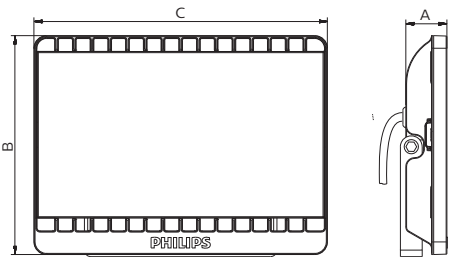
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

Metro LED

Benefits

- Solid die-cast housing design ensures long fixture lifetime
- Excellent thermal management ensures long system lifetime
- Reliable and quality components

Family Name	Metro LED
Model	BGS007
Light source	16xLED
Power requirement	220-240V 50/60Hz
Power factor	> 0.90 (nominal power)
LED driver & driving current	Constant current or programmable driver options 350mA – 700mA
Power	20W
Lumen	2000lm
CRI	70 ± 5
CCT	4000K ± 500K
Optics	Symmetrical Beam
Materials and finishing	Housing: Die-cast aluminium
	Gasket: Heat resistant silicone rubber
	Cover: Polycarbonate
	Grey Paint RAL7040
Lifetime	50,000hrs (70% lumen maintenance @ Ta = 35°C)
Working Temperature	-40°C < Ta < 55°C
Installation	Φ 34mm pole, 80mm depth, side entry A standard mounting bracket is supplied for mounting flexibility
Windage area	0.134m^2
Recommended mounting height	6 - 12m
Classifications	IP65; IK06; Class I
Surge protection	10KV
Certifications	CB IEC60598, AS/NZ60598, RoHS
Applications	General Mining Areas, conveyor belts, small roads

Model	Depth (A) (mm)	Height (B) (mm)	Width (C) (mm)	Weight (kg)
BGS007 16 LED 350~ 700	515	90	223	3.5
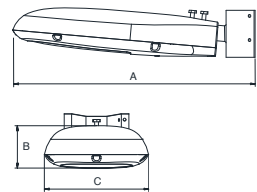
Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

LED Slimline
Oyster

Benefits

- Durable, yellowing resistant acrylic diffusers
- Available in 3 sizes and warm white or daylight colour temperatures
- IP65 version also available

Family name	LED Slimline Oyster			
Model	31814	31815	31816	IP65 31817
Power	12W	17W	20W	12W
CCT	2700/6500K			
CRI/SDCM	80/4			
Power factor	0.85+			
Mounting	Surface Mount			
Lifetime (hours)	15,000hrs			

Model	Width (B) (mm)	Height (C) (mm)
31814	290	70
31815	350	60
31816	380	75
31817	290	66

Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.
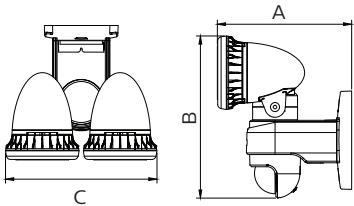
Twin motion
Sensor

Benefits

- Low 2 x 7.5W LED adjustable beam angles
- Bright 5,000K colour temperature
- Up to 30,000 hours lifetime at L70
- IP44 rated for outdoor use
- Powerful 1,000 lumens light output

Model	EH313L
Lumen	1000lm
Power	15W
CCT	5000K
CRI	80
Flex and Plug	Not included
Lifetime (L70)	30,000hrs
Unified Glare Ratio (UGR)	n/a
Optics	110D
Driver	Integrated driver
Dimmable	PSU (Fixed output)
Installation	Wall Mounted
IP rating	IP44
Application	Residential Security
Casing colour	Grey

Model	Depth (A) (mm)	Height (B) (mm)	Width (C) (mm)	Weight (kg)
EH313L	164	198	185	0.80kg

Dimensions shown are nominal measurement. Slight variation in dimensions may occur in production.

PHILIPS