PHILIPS

CoreLine Family

- Innovative
- Easy to install
- High quality

REAL PROs
REAL QUALITY

In a state or **state-of-the-art?**

Real professionals choose **Philips CoreLine products**

5 year warranty

50,000 hours @L70

Over **125yrs** in lighting

Over **90yrs** in the Pacific

www.philips.com/coreline

PHILIPS

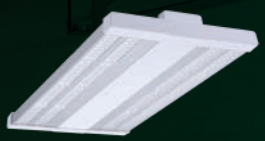
CoreLine Family

Lower standards or **raise the bar?**

Smart installers never say ‘no’ to saving time and money – and with Philips CoreLine, they will never have to. The Coreline portfolio offers a full range of LED and connected lighting solutions that keep installation time to a minimum, while saving a maximum of energy. Whether old or new, optimal lighting can transform a building into something truly special, turning it into a place where people enjoy working and living. Give your customers that ‘wow’ moment with Philips CoreLine: the complete range of high quality lighting solutions that set the benchmark.

CoreLine. **The complete range**

CoreLine **Highbay IP65**



CoreLine **Highbay IP40**

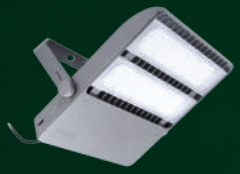
CoreLine **Downlight**

CoreLine **Troffer**

CoreLine **Panel**

CoreLine **Batten**

CoreLine **Waterproof**



CoreLine **Floodlight**

REAL PROs
REAL QUALITY

Innovative

With **Philips CoreLine** you get much more than high quality and easy-to-install lighting solutions – you get LED lighting that's setting **the pace** in the industry. That's why CoreLine luminaires are the first Interact Ready LED luminaires that work seamlessly with the **intuitive Interact Pro app and dashboard.** It has never been easier to bring the power of connected lighting to small and medium-sized enterprises.

Easy-to-install

The efficient design of the CoreLine fixtures enables replacement of existing lights with **no need for expensive re-wiring or new ceiling configurations.**

High quality

At the heart of CoreLine's **high-quality light** is LED technology. Lasting up to 50,000 hours @ L70, this **long lifetime** enables you to meet every demand and provide the best lighting solution for customers.

5 year warranty

50,000 hours @L70

Up to **140** lm/w

Perfect for Trade Projects

Lighting the Pacific region for **over 90 years**

The Philips brand stands for quality and energy-efficiency in light. For over 125 years, Philips products have been at the forefront of innovation. As the world's leader in lighting, Philips is driving the switch to energy-efficient and connected lighting solutions.

The same principles have been at work here in **the Pacific for over 90 years,** where thousands of lighting solutions are installed across every sector.

Today, **Philips Lighting** is a familiar and trusted name in the industry - and just as the world of illumination is continually evolving, so we'll continue to provide the cutting-edge solutions needed to take the Pacific into the future.

Sports
Optus Stadium Perth

Façade
Viaduct Basin

Street Lighting
Hamilton

A heritage of taking light beyond illumination

1891-2014
Conventional

2012
Connected lighting

2018
Lighting as a language
(Analytics, LiFi)

Innovation continues

2008
Introduction of LED

2016
IoT (systems)

Office
Watercare

Industry
WineWorks

CoreLine Highbay IP65

Instant frustration or **easy installation?**

Real professionals count on the new **Philips CoreLine Highbay IP65.**

Designed as a replacement for conventional 250 or 400W metal halide luminaires, the IP65 highbay comes complete with a Flex and Plug and single point suspension, making installation and connection quick and easy. The Philips Coreline Highbay also features a new round dedicated optic, providing a softer more natural light.

Key Features and Benefits

- Strong energy saving credentials – system efficacy @135lm/W.
- Round exit window design - for easy alignment when installing multiple highbays in a row.
- Excellent glare control for narrow beam with an additional reflector.
- High quality aluminium die cast heatsink ensuring a long life in harsh environments.

Applications

- Warehouses
- Distribution centres
- General manufacturing areas
- Exhibition halls
- High ceiling applications

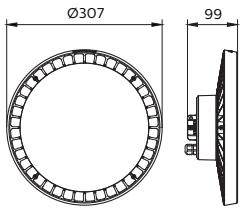
50,000 hours @L70 | Up to **135** lm/w | **IP65** | **IK08** | **5** year warranty

Simple installation and different mounting options

Installing the new CoreLine Highbay IP65 is really easy and can be done in three ways: hook mounting, pipe mounting and bracket mounting.

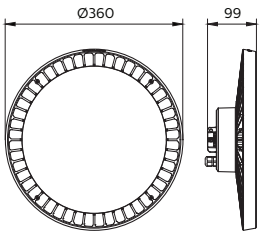
Dimensions

LED 155



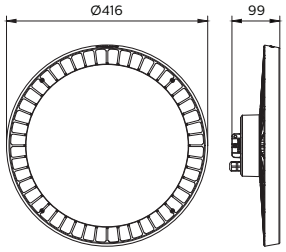
wt. 2.5 KGS

LED 205



wt. 3.2 KGS

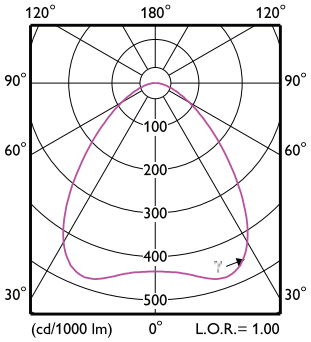
LED 265



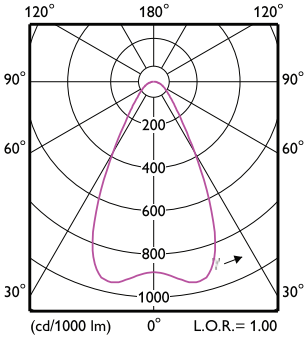
wt. 4.1 KGS

Dimensions shown above are nominal measurements. Slight variation in dimensions may occur in producton.

Polar intensity



Wide Beam



Narrow Beam (available on request)

Order codes for the CoreLine Highbay IP65

Specification	Part Number		Shortcode
115W, 15500lm, 4000K	911401518661	BY698P LED155/840 PSU WB CAU G2 CL	BY698P1584PWF
115W, 15500lm, 5000K	911401518961	BY698P LED155/850 PSU WB CAU G2 CL	BY698P1684PN3
149W, 20500lm, 4000K	911401518761	BY698P LED205/840 PSU WB CAU G2 CL	BY698P2084PWF
149W, 20500lm, 5000K	911401519061	BY698P LED205/850 PSU WB CAU G2 CL	BY698P2084DN3
192W, 26500lm, 4000K	911401518861	BY698P LED265/840 PSU WB CAU G2 CL	BY698P2084PIRN3
192W, 26500lm, 5000K	911401519161	BY698P LED265/850 PSU WB CAU G2 CL	BY698P2084PIRW3

*Note: All the above options come with 3M Flex and Plug and a wide beam distribution. Other options available on request.

Accessories

Specification	Part Number		Shortcode
Mounting Bracket	911401523461	BY698Z PSU MB G2	BY698ZPSUMBG2
Spare Hook	911401565101	MOUNTING HOOK_RR	BY698ZPSUHOOKG2

CoreLine Highbay IP40

Low achiever or high performer?

Real professionals count on the new **Philips CoreLine Highbay IP40.**

This replaces traditional Philips 400W metal halide and T5 highbays.

The IP40 CoreLine Highbay has an attractive high quality design with an assortment of different optics including a high rack option. With advanced options, such as a ZigBee Actilume wireless control, system energy savings can reach up to 88% when compared to traditional highbay luminaires.

Key Features and Benefits

- System efficacy of up to 140lm/W offers up to 73% energy savings compared to traditional HID systems.
- Three different distributions to precisely illuminate space efficiently.
- Robust aluminium extrusion body and quality Xitanium drivers ensuring luminaire longevity.

Applications

- Warehouses
- Distribution centres
- General high ceiling applications
- Factories
- Production lines
- Large format retail stores

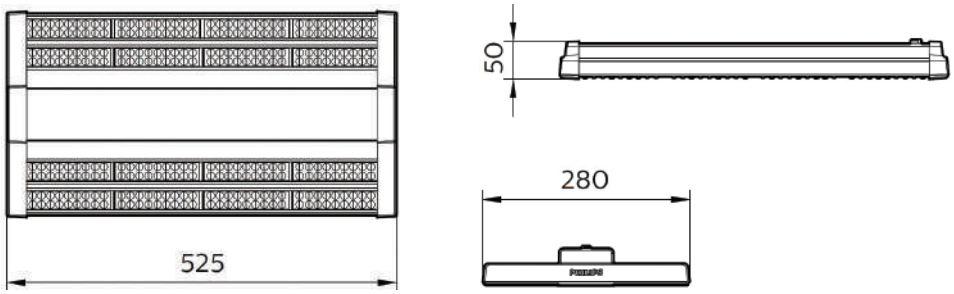
65,000 hours @L70 | Up to **140** lm/w | **IP40** | **IK03** | **5** year warranty

Simple installation

Installing the new CoreLine Highbay IP40 is really easy using the standard A frame hangers, which provide a self levelling two point installation.

Dimensions

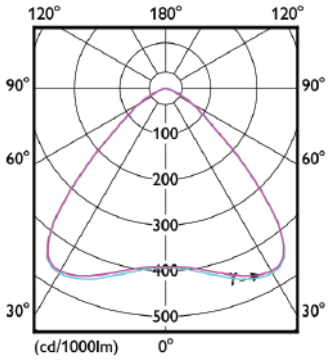
CoreLine IP40



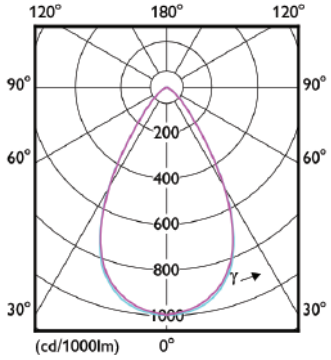
wt. 3.5 KGS

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

Polar intensity



Wide Beam

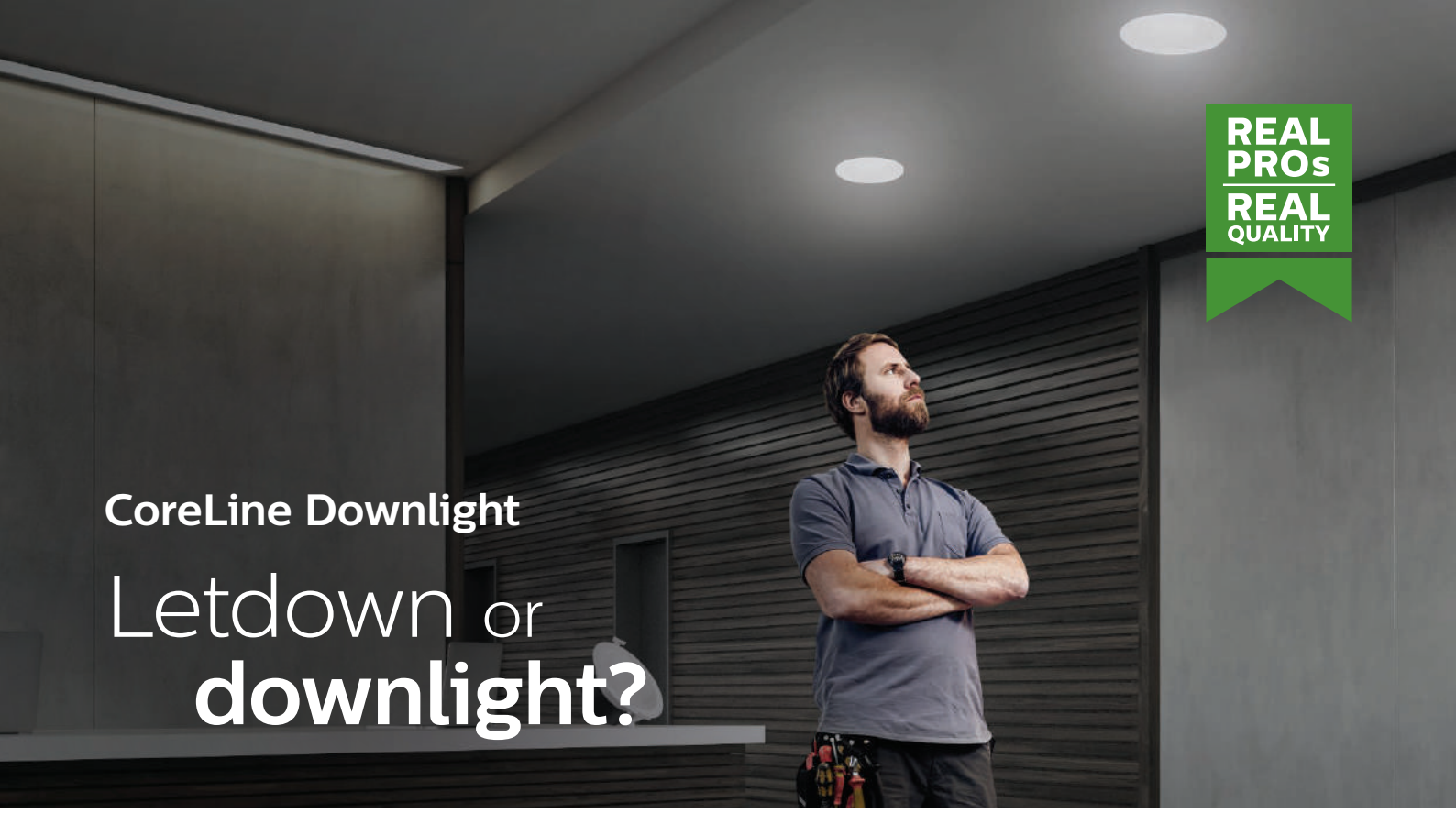


Narrow Beam

Order codes for the CoreLine Highbay IP40

Specification	Part Number		Shortcode
153W, 21000lm, 4000K	911401540661	BY560P LED210/NW PSU WB CAU CL	BY560P21084PWF
153W, 21000lm, 6500K	911401540761	BY560P LED210/NW PSU WB CAU CL	BY560P21086PWF

*Note: All the above options come with 3M Flex and Plug and a wide beam distribution. Other options available on request.



CoreLine Downlight

Letdown or **downlight?**

Real professionals count on the new **Philips CoreLine Downlight.**

This commercial LED downlight range combines light efficiency and comfort making it a perfect replacement for traditional compact fluorescent downlights.

The CoreLine Downlight is available in a wide range of lumen packages, sizes and two IP ratings to suit all applications.

Key Features and Benefits

- IP20 or IP54, ensuring suitability for most environments.
- Two reflectors; high gloss white or aluminium.
- Multiple lumen outputs providing design flexibility.
- Options available for Interact Pro connected lighting system.

Applications

- Offices
- Meeting rooms
- Shopping malls
- Hotels

50,000 hours @L70

Up to **110** lm/w

5 year warranty

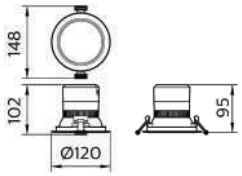
interact ready.

Simple installation

Installation of the new CoreLine Downlight is fast and simple. Standard spring-clip installation, three cut out sizes, 100, 150 and 200mm. Fitting comes complete with Flex and Plug.

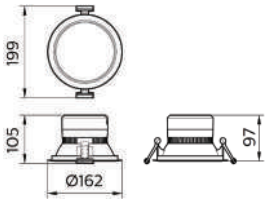
Dimensions

DN390



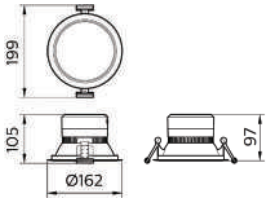
wt. 0.21KG
Cutout: 100mm

DN391



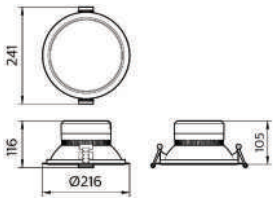
wt. 0.66KG
Cutout 150mm

DN392



wt. 0.66KG
Cutout: 150mm

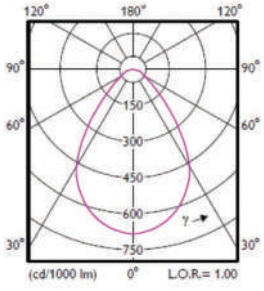
DN392/DN393



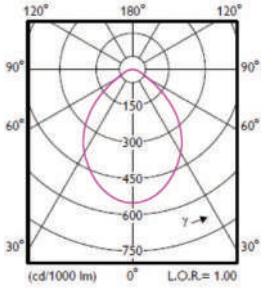
wt. 0.82KG
Cutout: 200mm

Dimensions show above are nominal measurements. Slight variation in dimensions may occur in production.

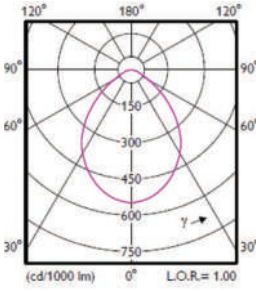
Polar intensity



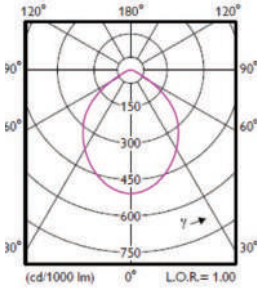
DN390B 600lm WH D100



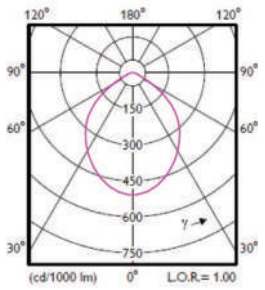
DN391B 1100lm WH D150



DN392B 1600lm WH D150



DN392B 1600lm WH D200



DN393B 2200lm WH D200

Order codes for the CoreLine Downlight

CoreLine Downlight

Specification	Part Number		Shortcode
6W, 600lm, 4000K, 100mm cut-out	911401541361	DN390B LED6/840 PSU D100 WH CAU CL	DN39B684P100WF
10W, 1100lm, 4000K, 150mm cut-out	911401541461	DN391B LED11/840 PSU D150 WH CAU CL	DN39B1184P15WF
15W, 1600lm, 4000K, 150mm cut-out	911401542361	DN392B LED16/840 PSU D150 WH CAU CL	DN39B1684P15WF
15W, 1600lm, 4000K, IP54, 150mm cut-out	911401542461	DN392B LED16/840 PSU D150 WH WP CAU CL	DN39B1684P15WPF
15W, 1600lm, 4000K, 200mm cut-out	911401541561	DN392B LED16/840 PSU D200 WH CAU CL	DN39B1684P20WF
19W, 2200lm, 4000K, 200mm cut-out	911401541661	DN393B LED22/840 PSU D200 WH CAU CL	DN39B1684P220WF
19W, 2200lm, 4000K, IP54, 200mm cut-out	911401541761	DN393B LED22/840 PSU D200 WH WP CAU CL	DN39B1684P22WWF

CoreLine Downlight Interact Ready

Specification	Part Number		Shortcode
19W,2200lm, 4000K, 200mm cut-out, IAR	911401570641	DN393B LED22/840 IAR WH CAU	DN39B1684I220WF

*Note: All the above options come with White reflector and Flex and Plug. Other options available on request.

CoreLine Troffer

Fading light or **leading light?**

Real professionals count on the new **Philips CoreLine Troffer.**

Designed for retrofit projects replacing traditional fluorescent troffer packs, it features the latest in LED technology and offers high light quality and efficiency gains.

Key Features and Benefits

- ✓ 60% more energy-efficient compared to conventional troffer packs.
- ✓ Available in recessed, suspended and surface mounting options, ensuring consistent look and feel.
- ✓ Slim design with overall height of less than 46mm.
- ✓ Options available for Interact Pro connected lighting system.

Applications

- ✓ Offices
- ✓ Schools
- ✓ Meeting rooms
- ✓ Hallways & corridors

50,000 hours @L70 | Up to **125** lm/w | **IP20** | **5** year warranty

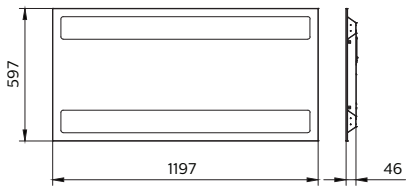
interact ready.

Simple installation

The installation of the recessed troffer is quick and simple, slotting into standard T rails systems. Comes complete with Flex and Plug.

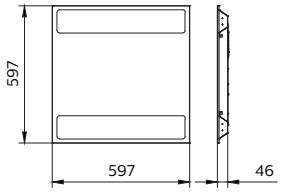
Dimensions

600mm x 1200mm



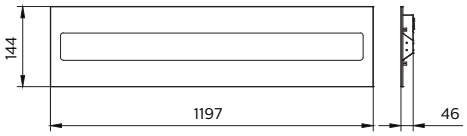
wt. 5KG

600mm x 600mm



wt. 2.8KG

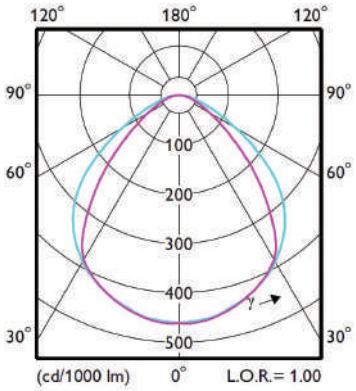
300mm x 1200mm



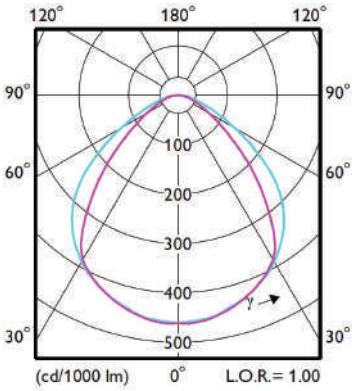
wt. 2.8KG

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

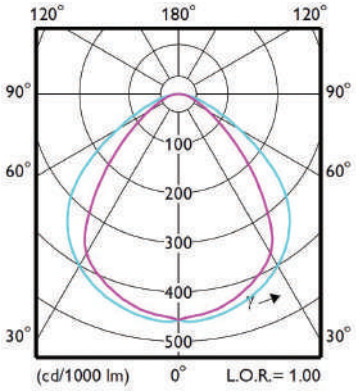
Polar intensity



600mm x 1200mm



600mm x 600mm



300mm x 1200mm

Order codes for the CoreLine Troffer

CoreLine Troffer

Specification	Part Number		Shortcode
32W, 3700lm, 4000K, 1200x300	911401540861	RC100B LED37S 840 W30L120 PSU CAU CL	RC10B3784312PNF
32W, 3700lm, 4000K, 600x600	911401540961	RC100B LED37S 840 W60L60 PSU CAU CL	RC10B378466PNF
32W, 3700lm, 4000K, 1200x600	911401541061	RC100B LED37S 840 W60L120 PSU CAU CL	RC10B3784612PNF

CoreLine Troffer Interact Ready

Specification	Part Number		Shortcode
32W, 3700lm, 4000K, 1200x300, IAR	911401543751	RC100X LED37S 840 W30L120 IAR CAU	RC10B3784312INF
32W, 3700lm, 4000K, 600x600, IAR	911401543651	RC100X LED37S 840 W60L60 IAR CAU	RC10B378466INF
32W, 3700lm, 4000K, 1200x600, IAR	911401543851	RC100X LED37S 840 W60L120 IAR CAU	RC10B3784612INF

*Note: All the above options come with Flex and Plug.

CoreLine Panel UGR19

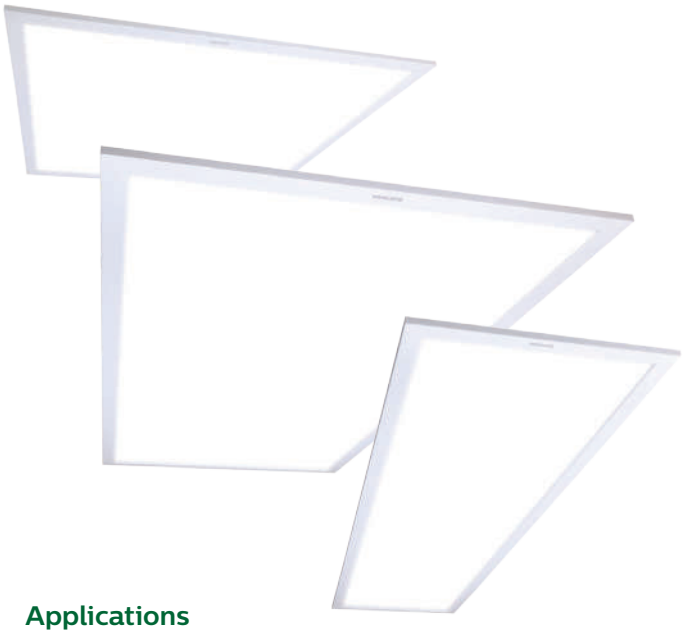
Panel rejection or **panel perfection?**

Real professionals count on the new **Philips CoreLine Panel UGR19.**

Our slimmest panel is clearly the next step in recessed luminaires for the design and build market. It not only offers increased energy efficiency and excellent glare control, but is also visually appealing without being intrusive.

Key Features and Benefits

- 60% more energy efficient compared to conventional TL solutions.
- UGR19 office compliant.
- Options available for Interact Pro connected lighting system.



Applications

- Offices
- Schools
- Meeting rooms
- Lunch rooms
- Hallways & corridors

50,000 hours @L70

Up to **110** lm/w

IP20

5 year warranty

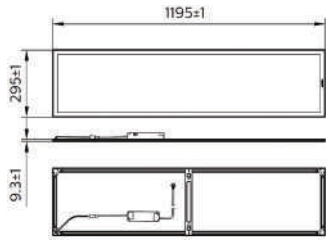
interact ready.

Simple installation and different mounting options

Simple and flexible installation: Comes with a plug-in connector for the driver and a Flex and Plug. Suitable for T-rail ceiling installations. For recessed and surface mounting in plaster ceilings, a proprietary kit is necessary.

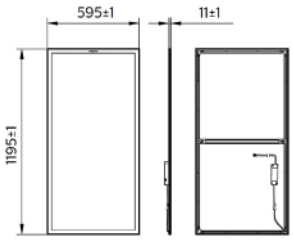
Dimensions

300mm x 1200mm



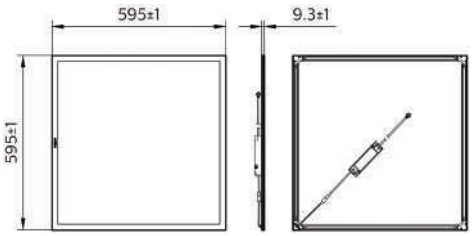
wt. 1KG

600mm x 1200mm



wt. 2KG

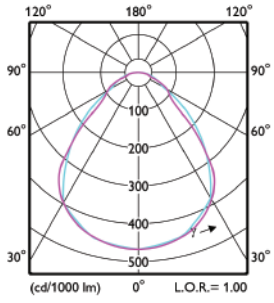
600mm x 600mm



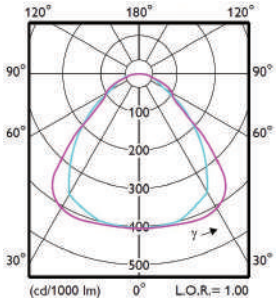
wt. 1KG

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

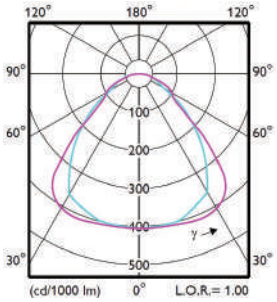
Polar intensity



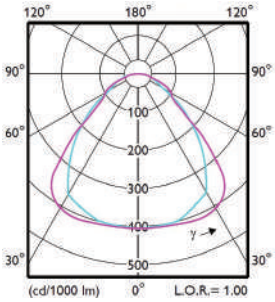
LED40S 840 W30L120



LED40S 840 W60L60



LED40S 840 W60L120



LED60S 840 W60L120

Order codes for the CoreLine Panel UGR19

CoreLine Panel UGR19

Specification	Part Number		Shortcode
36W, 4000lm, 4000K, 1200X300	911401761042	RC160V LED40S 840 W30L120 PSU OC CAU	RC16V484312POF
36W, 4000lm, 4000K, 600X600	911401761052	RC160V LED40S 840 W60L60 PSU OC CAU	RC16V48466POF
36W, 4000lm, 4000K, 1200X600	911401761062	RC160V LED40S 840 W60L120 PSU OC CAU	RC16V484612POF
55W, 6000lm, 4000K, 1200X600	911401761072	RC160V LED60S 840 W60L120 PSU OC CAU	RC16V684612POF

CoreLine Panel UGR19 Interact Ready

Specification	Part Number		Shortcode
36W, 4000lm, 4000K, 1200X300, IAR	911401755052	RC160X LED40S 840 W30L120 IAP OC CAU	RC16V484312IOF
36W, 4000lm, 4000K, 600X600, IAR	911401755032	RC160X LED40S 840 W60L60 IAP OC CAU	RC16V48466IOF
36W, 4000lm, 4000K, 1200X600, IAR	911401767682	RC160X LED40S 840 W60L120 IAP OC CAU	RC16V84612IOF

*Note: All the above options come with Flex and Plug.

CoreLine Batten

Lower standards or **raise the bar?**

Real professionals count on the new **Philips CoreLine Batten.**

These battens deliver superior performance, output and energy efficiency in an affordable package. The Philips Coreline batten is the perfect retrofit solution for conventional battens.

With a wide base and no visible mounting brackets, replacement of existing installations has never been easier.

Key Features and Benefits

- Excellent replacement for T8 and older battens.
- Surface mount with no visible brackets.
- Emergency options available (AS2293 compliant).

Applications

- Warehouses
- Retail
- Stairwells
- General industrial applications

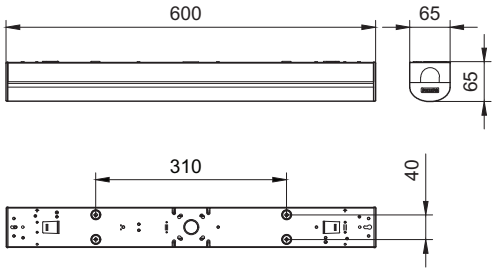
50,000 hours @L70 | Up to **100** lm/w | **IP20** | **IK04** | **5** year warranty

Simple installation

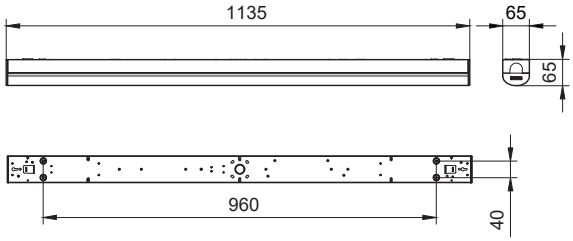
Fast and easy installation is assured with features such as large terminal block, central feed and multiple knock outs for through wiring.

Dimensions

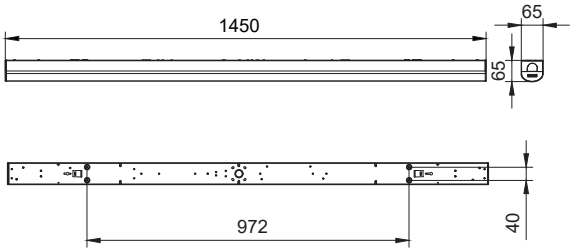
LED22



LED41

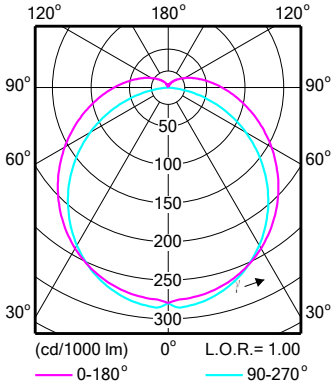


LED60



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

Polar intensity



Order codes for the CoreLine Batten

Specification	Part Number	Description	Shortcode
21W, 2200lm, 4000K, 600mm	911401898780	BN126C LED22S/840 PSU L600	BN12622L8402FT
21W, 2200lm, 6500K, 600mm	911401898880	BN126C LED22S/865 PSU L600	BN12622L8652FT
38W, 4100lm, 4000K, 1200mm	911401898980	BN126C LED41S/840 PSU L1200	BN12641L8404FT
38W, 4100lm, 6500K, 1200mm	911401899080	BN126C LED41S/865 PSU L1200	BN12641L8654FT
56W, 6000lm, 4000K, 1500mm	911401899180	BN126C LED60S/840 PSU L1500	BN12660L8405FT
56W, 6000lm, 6500K, 1500mm	911401899280	BN126C LED60S/865 PSU L1500	BN12660L8655FT

*Note: Emergency options also available on request.

CoreLine Widebody Waterproof Batten

Soggy mess or **waterproof success?**

Real professionals count on the new **Philips CoreLine Widebody Waterproof Batten.**

It's the ideal retrofit solution for conventional waterproof fittings. With a wider base, sturdy and robust finish, multiple knock-outs and the ability for through wiring, installation is hassle-free and simple.

Key Features and Benefits

- Wide base for direct replacement of T8 luminaires.
- Emergency options available (AS2293 compliant).

Applications

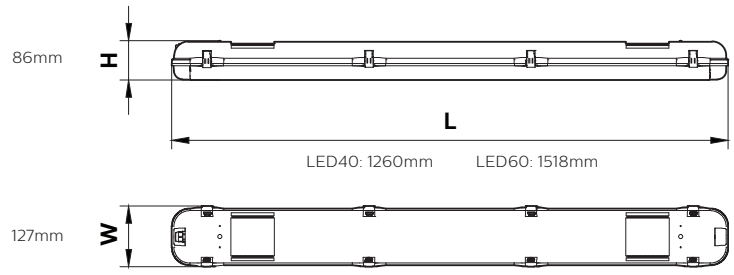
- Warehouses
- Wet areas
- Carparks
- Factories

50,000 hours @L70 | IP65 | IK08 | 5 year warranty

Simple installation

Speed and ease of installation is taken care of with features such as large terminal block, central feed and knock-outs for through wiring.

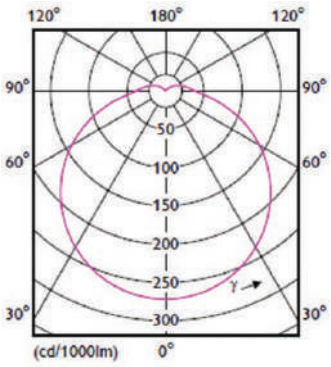
Dimensions



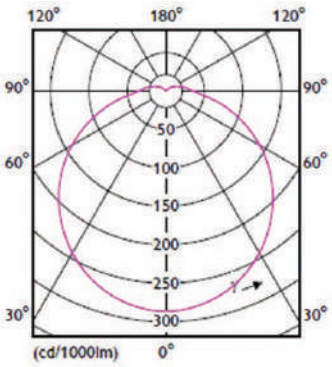
wt. LED40: 1.7KG LED60: 2.14KG

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

Polar intensity



LED40



LED60

Order codes for the CoreLine Widebody Waterproof Batten

Specification	Part Number		Shortcode
40W, 4000lm, 4000K, 1,200mm, IP65	911401761162	WT008C L1200 NW 4000lm NZ CL	WT81284P
40W, 4000lm, 6500K, 1,200mm, IP65	911401761172	WT008C L1200 CW 4000lm NZ CL	WT81286P
60W, 6000lm, 4000K, 1,500mm, IP65	911401761202	WT008C L1500 NW 6000lm NZ CL	WT81584P
60W, 6000lm, 6500K, 1,500mm, IP65	911401761212	WT008C L1500 CW 6000lm NZ CL	WT81586P

*Note: Emergency options available on request.

CoreLine Waterproof Batten

Cheap deal or **waterproof seal?**

Real professionals count on the new **Philips CoreLine Waterproof Batten.**

The new CoreLine Waterproof Batten builds on the reputation of the current model – offering higher performance and a wider range of options, making it the perfect choice for almost any environment. New features include an exceptional 140 lumens per watt, multiple optical options and higher lumen packages.

Key Features and Benefits

- Two optic choices: Wide Beam (Prismatic) for superior glare control; Lambertain (Opal) for general lighting applications.
- Control options featuring DALI and Interact Pro for greater active energy efficiency and control.
- High lumen output options available on request (up to 8000 lumens) for higher or elevated ceilings.
- Easy to open housing – driver replaceable
- Emergency options available (AS2293 compliant).

Applications

- Warehouses
- Wet areas
- Carparks
- Factories
- Cool stores

50,000 hours @L70 | Up to 140 lm/w | IP65 | IK08 | 5 year warranty

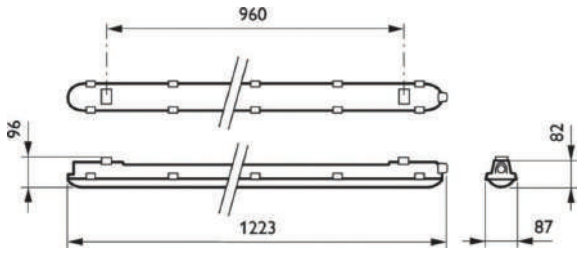
interact ready.

Simple installation

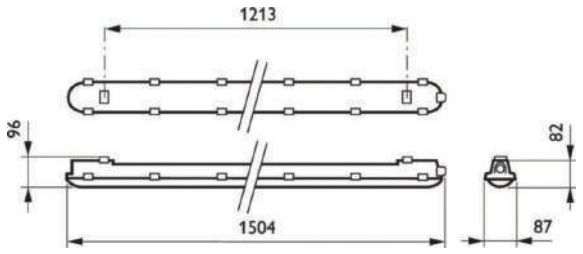
Hassle free installation is made possible with features such as a large loop in/out terminal block, plus central and end knock-outs making it suitable for any configuration. In addition to the standard surface mount installation, the CoreLine Waterproof can also be suspended, using the supplied kit as standard.

Dimensions

LED40

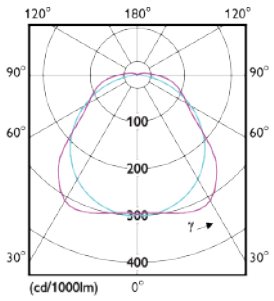


LED60

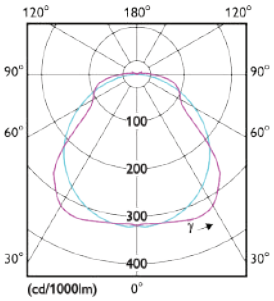


Dimensions shown above are nominal measurements. Slight variation in dimensions may occur in production.

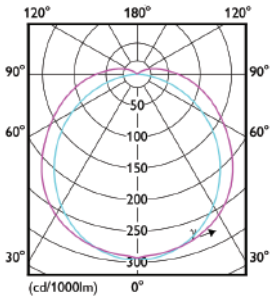
Polar intensity



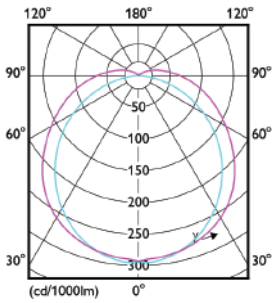
LED40 Wide beam, Standard Option



LED60 Wide beam, Standard Option



LED37 Lambertian Optic available on request



LED57 Lambertian Optic available on request

Order codes for the CoreLine Waterproof Batten

CoreLine Waterproof Batten

Specification	Part Number		Shortcode
21W, 1900lm, 4000K, 2ft, IP65	911401552461	WT198C LED19S/840 PSU L600 CL	WT191984P6
29W, 4000lm, 4000K, 4ft, IP65	911401552261	WT198C LED40S/840 PSU L1200	WT194084P12
43W, 6000lm, 4000K, 5ft, IP65	911401552361	WT198C LED60S/840 PSU L1500	WT196084P15

*Note: 8000 lumen variants available on request.

CoreLine Waterproof Batten Inteact Ready

Specification	Part Number		Shortcode
37W, 4100lm, 4000K, 4ft, IP65, IAR	910500465266	WT120C LED40S/840 IA1 L1200	WT194084I12
50W, 6000lm, 4000K, 5ft, IP65, IAR	910500465267	WT120C LED60S/840 IA1 L1500	WT196084I15

*Note: Other options available on request, including DALI, Interact Pro and Lambertian optic (wide beam as standard).

CoreLine Floodlight

Fizzle out or **shine on?**

Real professionals count on the new **Philips CoreLine Floodlight.**

Building on the established Tango reputation, this is the perfect solution for a wide range of area lighting applications replacing traditional HID floodlights.

Incorporating integrated heat sink and driver into one compact and robust housing makes it suitable for a wide range of environments.

Key Features and Benefits

- ✓ Up to 50% energy savings compared to conventional floodlights.
- ✓ Supplied standard with symmetric wide beam optic. Other options and wattages are available to suit most applications.
- ✓ 15KV/KA surge protection, non-corrosive die-cast aluminum housing and galvanised bracket make it ideal for harsh environments.

Applications

- ✓ Area lighting
- ✓ Industrial areas
- ✓ Facades and billboards
- ✓ Parking lots
- ✓ Ports
- ✓ Airports

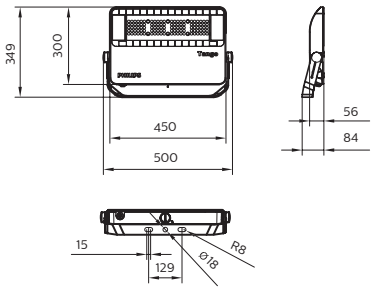
50,000 hours @L70 | Up to **130** lm/w | **IP66** | **IK08** | **5** year warranty

Simple installation

Easy to install and maintain and comes complete with a galvanised mounting bracket for harsh environments. Also includes 600mm flying lead and built in protractor to ensure accurate aiming.

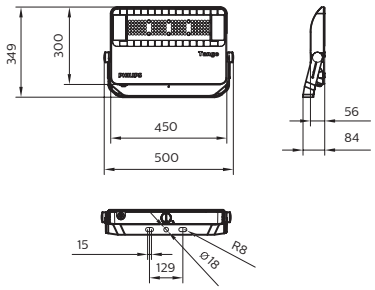
Dimensions

70W



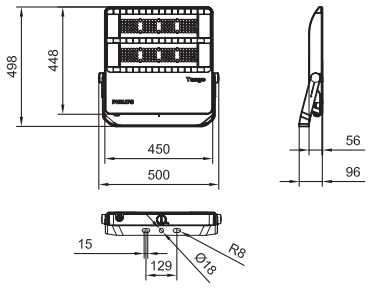
wt. 5.5 KGS

100W



wt. 5.5 KGS

200W



wt. 8 KGS

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

Order codes for the CoreLine Floodlight

Specification	Part Number		Shortcode
70W, 8400lm, 4000K	911401692105	BVP381 LED91/NW 70W 220-240V SWB CL	BVP381918470SB
100W, 12000lm, 4000K	911401692005	BVP381 LED130/NW 100W 220-240V SWB CL	BVP3811384100SB
200W, 24000lm, 4000K	911401691905	BVP382 LED260/NW 200W 220-240V SWB CL	BVP3822684200SB

*Note: All the above options come with a symmetrical wide beam optic.

PHILIPS
Interact Ready lighting
Slow business or grow business?
Real professionals boost their business with **Philips connected lighting** – innovative luminaires that work with the **Interact Pro app and dashboard.**
World class connected lighting for small- and medium-sized businesses.
Easy to install - no need for separate antennas, radio boxes or signal cables.
Speedy set up with the intuitive Interact Pro app.
Get invaluable data from the Interact Pro dashboard and become a trusted advisor.
Interact Pro seamlessly works with our Interact Ready CoreLine luminaires.
REAL PROs
REAL QUALITY

interact Pro

It's now possible to bring the power of IoT connected lighting to small and medium-sized businesses with up to 200 light points. Meet Interact Pro: an intuitive app and dashboard that work with Philips Interact Ready CoreLine luminaires. Wherever you work, it works!

Get connected in 5 simple steps

1. Unbox

2. Install
Interact Pro gateway and Interact Ready lighting

3. Download
Interact Pro app

4. Configure
system with Interact Pro app

5. Manage
monitor and modify via Interact Pro dashboard

PHILIPS interact ready.

Smart luminaires

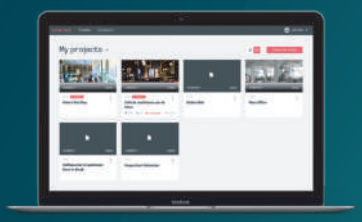
Smart controls and sensors

Works with

interact Pro

Interact Pro gateway

Interact Pro app



Interact Pro dashboard

Discover the possibilities – visit www.interact-lighting.com

What is **Ingress Protection (IP)** rating?

IP ratings describe the environmental protection that a product has from particles and liquids.

Digit
0
Non protected.

1
Protected against a solid object greater than 50mm, such as a hand.

2
Protected against a solid object greater than 12.5mm, such as a finger.

3
Protected against a solid object greater than 2.5mm, such as a wire.

4
Protected against a solid object greater than 1.0mm, such as a thin strap.

5
Dust protected. Protects against ingress of dust sufficient to cause harm.

6
Dust tight. No ingress of dust.

Usage and common application

IP20 – suitable for most indoor applications.
IP44 – suitable for under canopy and bathroom.
IP54 – suitable for under canopy in outdoor areas, industrial application etc.
IP65 – suitable for industrial application and outdoor areas.
IP68 – suitable for underwater and in-ground applications.

The above information serves as a reference only. Always check with product manufacturer for suitability.

Second digit = Protection against liquids (0 - 8)

Digit
0
Non protected.

1
Protected against dripping water.

2
Protected against dripping water when tilted up to 15 degrees.

3
Protected against spraying water at an angle of up to 60 degrees.

4
Protected against splashing water from any direction.

5
Protected against jets of water from any direction.

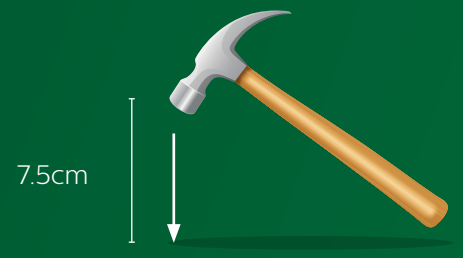
6
Protected against the effects of temporary immersion. Up to 30mins, between 15cm to 1m.

7
Protected against the effects of temporary immersion in water.

8
Protected against the effects of continuous immersion in water.

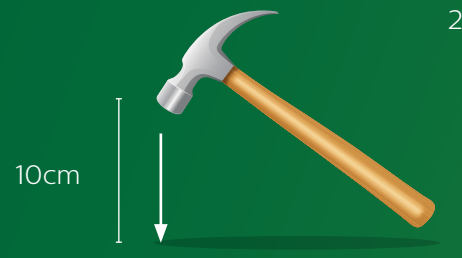
What are **IK (Impact Protection)** ratings?

1. 200 g



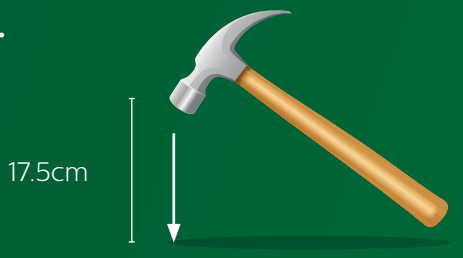
0.15 joule impact

2. 200 g



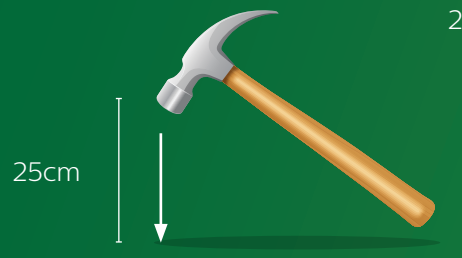
0.20 joule impact

3. 200 g



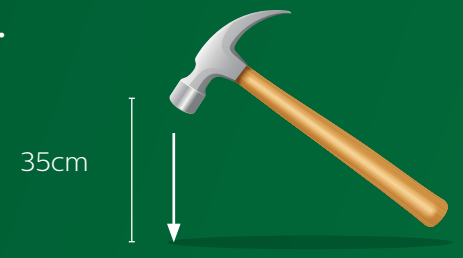
0.35 joule impact

4. 200 g



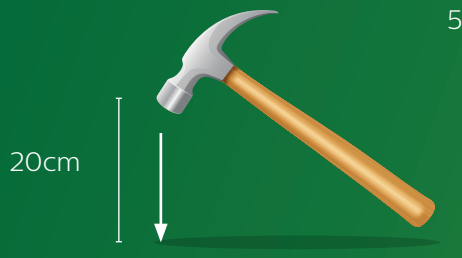
0.50 joule impact

5. 500 g



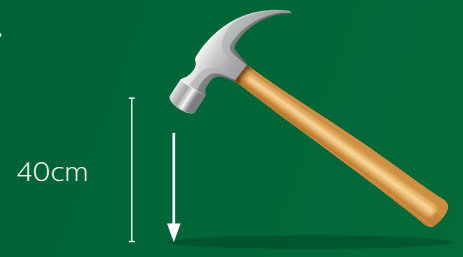
0.7 joule impact

6. 500 g



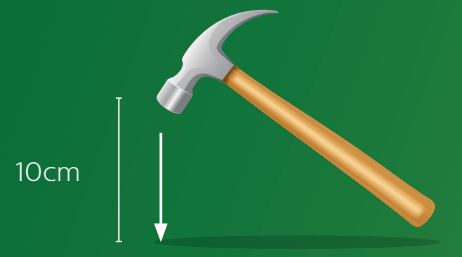
1 joule impact

7. 500 g



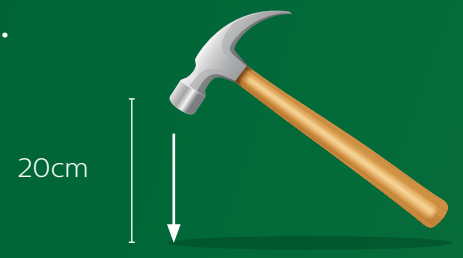
2 joule impact

8. 5 kg



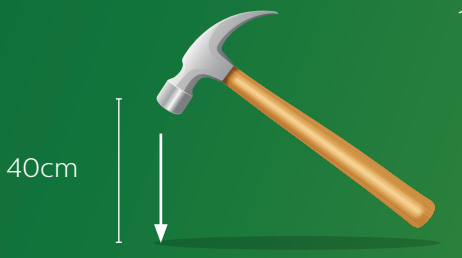
5 joule impact

9. 5 kg



10 joule impact

10. 10 kg



20 joule impact

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 an 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.

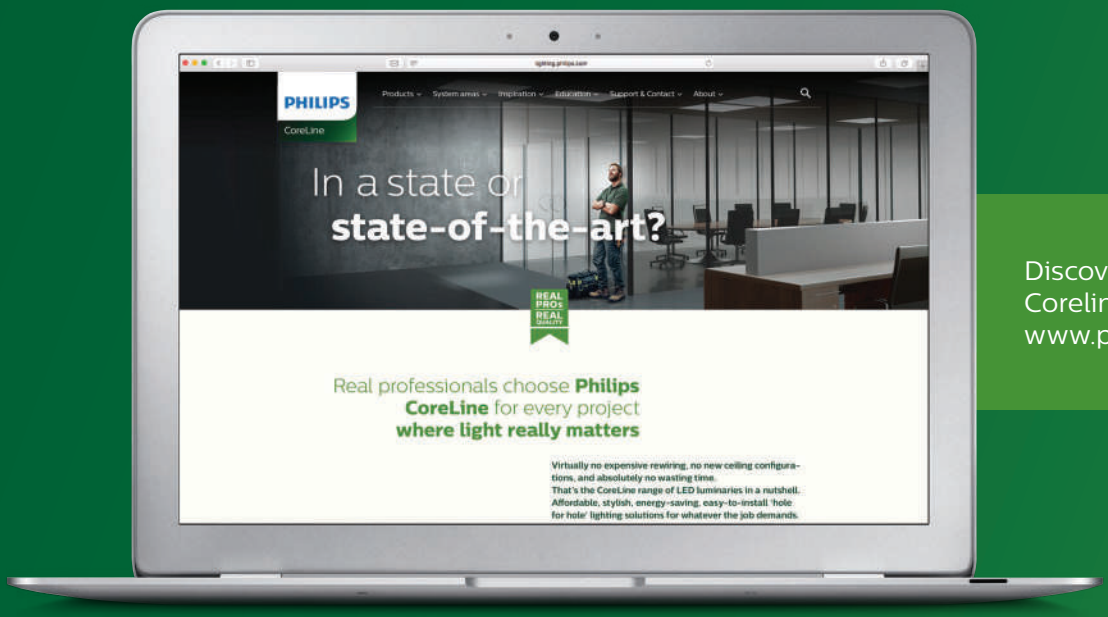
Real Pros, **Real Quality**

When you need to get the job done right, you can count on Philips LED technology. With the widest range of LED lamps, fixtures and controls, we can satisfy every customer need.

LED technologies are rapidly changing, creating plenty of new opportunities. As a trusted name in lighting, we understand your challenges and can help you build your business.

You're no handyman - you're a real professional. Someone who can be relied on to get the job done. Someone who plans well, executes fast and works efficiently. Real professionals count on Philips Lighting.

CoreLine.
Just the beginning



Discover more about Coreline luminaires at www.philips.com/coreline

REAL PROs REAL QUALITY

Notes

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Version: January 2020

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