

OPPLE

LIGHTING.

OPPLE Lighting.

Dear valued customers,

It is with great pride that I present our new portfolio, packed with many new products and solutions, in line with our promise **“OPPLE creates affordable, high-quality innovative LED lighting”**. As you will discover, we are putting more and more focus onto the expansion of our, affordable, easy-to-install and easy-to-use OPPLE Smart Lighting portfolio. Explore the Smart solutions including our brand new Tunable White Luminaires from page 10.

OPPLE strives to create an experience beyond your expectations, to ensure your success. Keeping things simple, with fast responses and delivering on our promise. OPPLE people make it possible!

OPPLE in Europe started as a small team early 2014. Now after 7 years we are stronger than ever, more professional, more experienced, and still with the pure dedication to serve and surprise our customers - that's who we are, that is our ambition, that's why we do it.

Let's team OP!



Jeroen Janssen
Managing Director
OPPLE Lighting Europe



Who we are

OPPLE is a fast growing, family-owned company with more than 20 years of experience in lighting. Listed on the Shanghai Stock Exchange since 2016 and ranked in the global top-10 leading lighting companies. Every day more than 6,000 enthusiastic employees work tirelessly in regional sales offices around the world and on the OPPLE campus in China. There are around 4,000 OPPLE stores and more than 40,000 points of sale worldwide.





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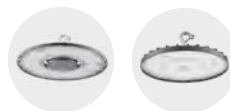
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OPPLE Online

Check our website (www.opple.com) for the latest overview of our complete portfolio and related specifications.



@OppleLightingEurope



DOWNLOADCENTER

- ▶ Family sheets
- ▶ Installation instructions
- ▶ Photometric data
- ▶ Energy labels
- ▶ Connection specifications
- ▶ Dimmer compatibility list
- ▶ Guarantee & Warranty policy
- ▶ Terms & conditions
- ▶ Tools
- ▶ Fast Lighting Calculation







Smart 10

Indoor 24

Outdoor 114

Lamps & Tools 136

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Over 4 years
experience in
Smart Lighting



The OPPLE Smart Lighting system is developing

It is known that the installation of the Smart Lighting system is extremely simple: the luminaires can be fitted into the ceiling and connected to the power supply directly out of the box. No extra wires, fittings, gateways, servers or controllers are required. All luminaires can be controlled via the free OPPLE Smart Lighting App.

With the Smart Lighting system, you can easily set different light scenes per room. At any moment you can switch to the desired scene to compliment the activity in the office, factory, school, or any other application. Another smart feature of OPPLE Smart Lighting is that the Smart Sensor measures both movement and the lux levels in the space. The amount of light the OPPLE Smart Lighting system emits is immediately adjusted to the incidental daylight to maintain the same level of light and save even more energy. It is also possible to have the light dim automatically to a set level; the ideal solution for hallways. This function is called the "Corridor feature".

The Smart Lighting system can be used anywhere. There are various Smart Panels, suspended luminaires and Downlights for your office environment or school. There are several Smart Spots, suitable for hotels, restaurants, and shops. Finally, the OPPLE Smart Highbays and OPPLE Smart Waterproofs are mainly intended for warehouses, production environments and parking garages, where the combination with the OPPLE Smart Microwave Sensor saves maximum energy when no one is around. With our universal SMART relays, you can also integrate other lighting fixtures into the OPPLE Smart Lighting System.

With OPPLE Smart Lighting you can count on:

- completely wireless control of lighting utilizing Bluetooth® Low Energy Mesh
- dynamic lighting without extra wiring
- quick and easy installation, no need for a gateway
- maximum energy savings thanks to the use of Smart Sensors
- various scenes/moods can be set using the free OPPLE Smart Lighting App
- unique features like daylight balance, the corridor feature, movement sensors and smart relay
- maximum security thanks to coded signals and strict user management
- an excellent and affordable Smart Lighting system





What do these developments mean for you?

Energy consumption is high on everyone's agenda. With the switch to LED lighting you will quickly save at least 60% energy. This can be done by replacing conventional lighting one-on-one with LED lighting. You can choose between standard LED lighting or a dimmable solution based on DALI, 0-10V, push dimming or wireless Smart BLE. With the Smart Lighting solutions, you save even more on energy costs by using smart sensors.

These savings are necessary to comply with sustainability labels. OPPL Lighting considers it important to inform you and to help you comply with new measures.

Our lighting designers and account managers prepare lighting advice in accordance with the official guidelines. The range offers many options. Many of our luminaires are dimmable and adjustable, and there is a possibility to create scenes. Also, daylight controls and presence / absence sensors are part of our range. We can achieve this with our DALI and of course also with our Smart Lighting solutions.

If you need advice, please do not hesitate to contact us.



Google Play Store



Apple App Store

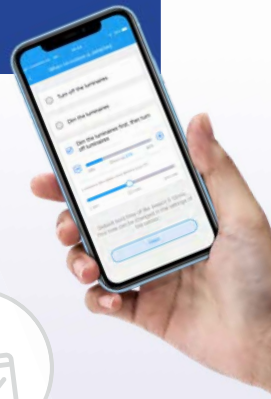


Developments continue!

NEW: Tunable White

Varying colours in the same fixture is called Tunable White (TW). With our Smart Lighting System you can also easily operate our new Tunable White luminaires. This allows you to easily switch from warm white to cool white (2700K-6500K) and back. This way you can design your workplace with the colour temperature that you like. For example, in a meeting room, adjust the colour to cool white (6500K) to be extra alert or to warm white (2700K) to relax and create an informal atmosphere. It is also extremely suitable for health Care applications, such as ICs and elderly homes, and of course 24-hours applications.

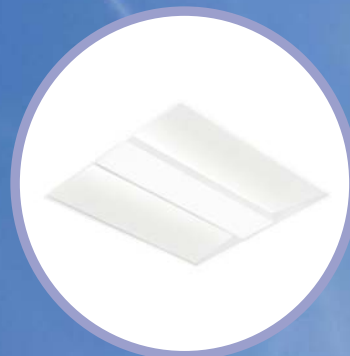
In addition to the Slim Panel G5, the Downlight Performer is equipped with this TW technology.



LED Smart Lighting luminaires



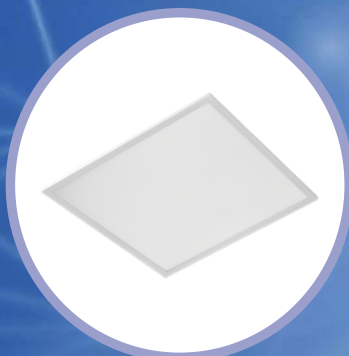
LED Panel Recessed Grille
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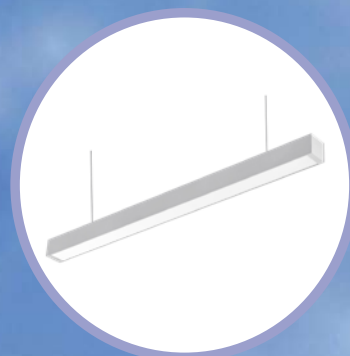
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LED Panel Suspended Zenith
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LED Downlight Performer HG
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LED Spot Performer 3C
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LED Spot Swing
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LED Highbay Performer G4
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LED Waterproof Performer G3
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Smart Connect Box
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Smart Sensor (PIR)
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Smart Sensor (MW)
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Smart Relay
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Smart Switch
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OPPLE Smart Connect Box

The Smart Connect box is an optional extra piece of hardware, that unlocks extra features of the Smart Lighting System. An extremely versatile device that facilitates the connection of your Smart Lighting system with the outside world.

The idea is simple: after connecting the Smart Connect Box to the network in your building, you can communicate remotely with all the Smart luminaires, sensors, and switches. The Smart Connect Box offers especially great benefits for larger buildings with multiple floors.

The benefits

- Maps out data clearly on energy consumption, temperature, humidity and occupancy detection for each building, floor and room.
- Always and everywhere in control: operate your building's lighting from a remote location.
- All DALI luminaires can be linked and operated via Smart Switch, Smart Sensor or Smart Web Interface.
- Scheduler: luminaire automatic on-/off switch at a specific time or date.
- Links multiple Smart Projects in a single project.
- Completely compatible with the existing OPPLE Smart Lighting system.
- Full logic configuration of the system (IFTTT rules) is possible.

Monitoring data remotely

All OPPLE Smart Lighting system devices can communicate with each other, however the Smart Connect Box now makes it possible for you to connect with and control your lighting system remotely.

A great benefit of the Smart Connect Box is that you can monitor information very simply. The OPPLE Cloud offers insights into all sorts of data regarding your building, which you have at your disposal via your laptop or tablet in real time.

Mapping out energy consumption

The Smart Connect Box can generate graphs for each building, floor and room. Revealing the energy consumption within a certain period, the climate and at what times occupancy is detected. The Smart Connect Box makes it a simple matter to switch luminaires on or off or set them automatically with the scheduler. This makes the Smart Connect Box an ideal solution for facility managers for the management of large buildings. Targets for green activities such as energy consumption reduction are simpler to achieve.

It is a simple matter to connect the Smart Connect Box to your OPPLE Smart Lighting system. There is nothing for you to change or replace in your current Smart Lighting system.

OPPLE "Classic" Smart Lighting vs Connect Box	"Classic" Smart Lighting system	Smart Connect Box system
Use of Smart Switch	✓	✓
use of Smart Sensor	✓	✓
Daylight Control	✓	✓
Multiple managers/users per project	✓	✓
Show actual occupancy	✓	✓
Show actual temperature/humidity	✓	✓
Multiple installers per project	X	✓
Control > 100 devices at once	X	✓
Switch lighting at specific time/date	X	✓
Control your lighting installation remotely	X	✓
Energy use graph	X	✓
Temperature/humidity graph	X	✓
Occupancy graph per area	X	✓



Smart Connect Box

- Monitor energy consumption per building, floor or room
- Remote control of your Smart Lighting project
- Control any type of DALI luminaire via Smart Switch, Smart Sensor or Smart Web Interface
- Scheduler: automatically turn on/off luminaires at a specific time or date.
- Connect multiple Smart Projects into one big project
- Fully compatible with the existing Opple Smart Lighting system

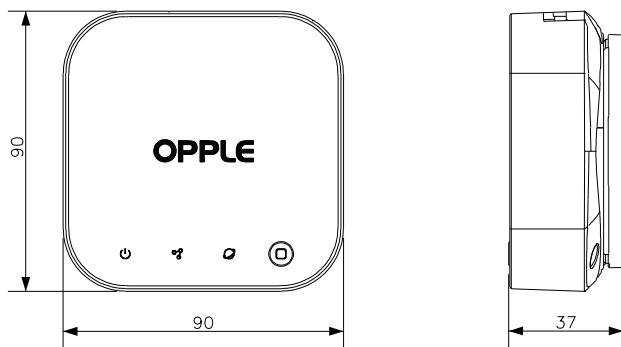


Specifications

Item Code	Item Description
560000005700	Smart Connect Box

Dimensional drawing (mm)

560000005700 - Smart Connect Box



Technical Specifications	
Power consumption	Max 14W
Finishing	Grey
Protection Class	II
Communication	Wired: Ethernet (RJ45), DALI, RS-485 Wireless: Bluetooth® Low Energy Mesh

Electrical Supply	
Nominal voltage	220-240V AC
Frequency	50/60Hz
Built-in DALI power supply	Yes
Output voltage	16V DC
Output current	Max 0.2A
Ambient Conditions	
Operating temperature	-20--+40°C
Storage environment	-25--+50°C





Smart Sensor (PIR)

- Compact Bluetooth® presence detector for use in OPPLE Smart Lighting Systems
- Large detection area of Ø 10m
- Suitable for the OPPLE Smart Daylight regulation
- Very easy to set-up with the OPPLE Smart Lighting App or Smart Web Interface
- Including temperature- and humidity sensors
- Complete wireless communication via Bluetooth® Low Energy (BLE)



Specifications

Item Code	Item Description	Sensor range
140063563	LEDsmartlight-Rc-Sensor	10m

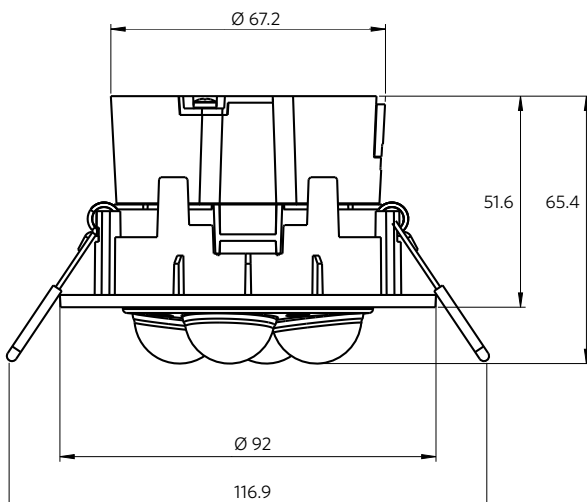
Accessories

560098000600
LEDsmart-Sensor Surface-Module-WH

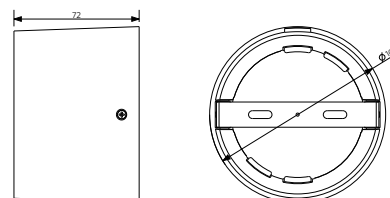


Dimensional drawing (mm)

560098000600 - LEDsmart-Sensor Surface-Module-WH



560098000600 - LEDsmart-Sensor Surface-Module-WH





Technical Specifications

IP-class	IP20
IK-class	IK02
Finishing	White RAL9003
Communication	Opplé Bluetooth® Low Energy Mesh
Protection Class	II
Detection diameter (when installed at 2.5-3.5m height)	Max Ø 10m Max Ø 5m when sitting
Detection angle	360°
Detection technology	PIR
Switch-off delay time	1min-60min
Daylight balance	Yes
Temperature sensor	Yes
Humidity sensor	Yes

Electrical Supply

Power consumption	1.2W
Nominal voltage	220-240 V AC
Frequency	50/60 Hz

Mechanical Properties

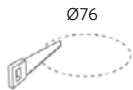
Material housing	PC
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Ambient conditions

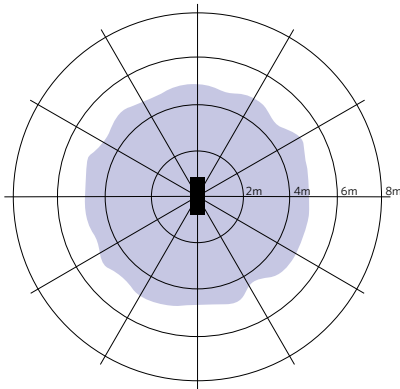
Operating Temperature	-25~+30°C
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Installation opening drawing (mm)

LEDSmartlight-Rc-Sensor



Detection range



Installation - Low Ceiling
Suggested installation height 2-3m





Smart Sensor (Microwave)

- Compact Bluetooth® presence detector for use in OPPLE Smart Lighting Systems
- Large detection area of Ø 20m
- Suitable for the OPPLE Smart Daylight regulation
- Very easy to set-up with the OPPLE Smart Lighting App or Smart Web Interface
- Suitable for high ceiling applications (max detection height of 13m)
- Adjustable detection area for low/high ceiling applications
- Complete wireless communication via Bluetooth® Low Energy (BLE)



Specifications

Item Code	Item Description	Sensor range
560000008400	LEDsmartlight-Rc-MW-Sensor	20 m

Accessories



IP20

560098000600
LEDsmart-Sensor Surface-Module-WH



IP65

560006000900
LEDsmart-Sensor IP65-Base-Module
Excluding sensor

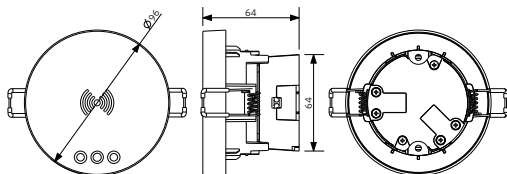


IP65

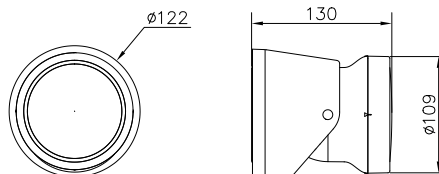
560006001000
LEDsmart-Sensor IP65-Module
Excluding sensor

Dimensional drawing (mm)

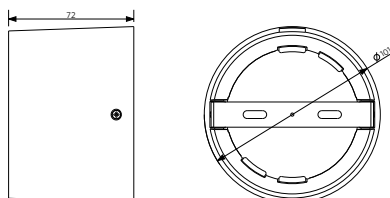
560000008400 - LEDsmartlight-Rc-MW-Sensor



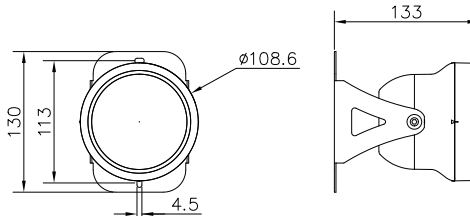
560006000900 - LEDsmart-Sensor IP65-Base-Module



560098000600 - LEDsmart-Sensor Surface-Module-WH



560006001000 - LEDsmart-Sensor IP65-Module





Technical Specifications	
IP-class	IP20 / IP65*
IK-class	IK02
Finishing	White RAL9003
Communication	Opplé Bluetooth® Low Energy Mesh
Protection Class	II
Detection diameter (when installed at 2.5-13m height)	Max Ø 20m
Detection angle	360°
Detection technology	Microwave (MW)
Switch-off delay time	1min-60min
Daylight balance	No
Temperature sensor	No
Humidity sensor	No

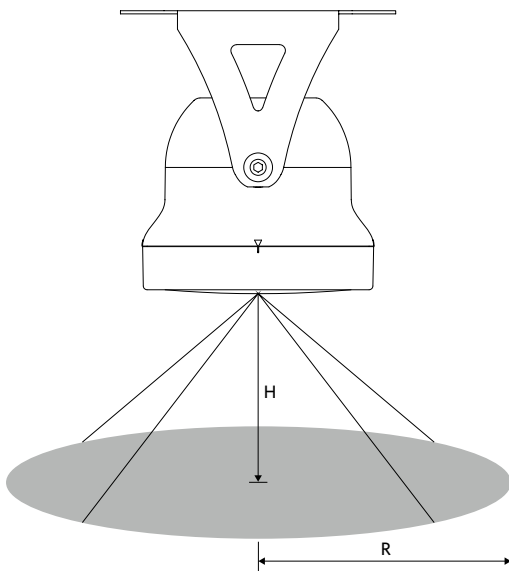
Electrical Supply	
Power consumption	2.2W
Nominal voltage	220-240 V AC
Frequency	50/60 Hz

Mechanical Properties	
Material housing	PC

Ambient conditions	
Operating Temperature	-30~+55°C

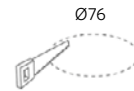
* IP65 only in combination with IP65 accessory modules

Detection range

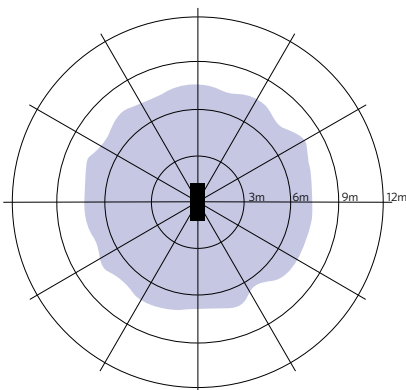


Installation opening drawing (mm)

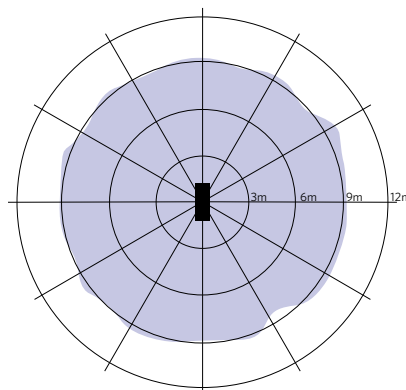
LEDSmartlight-Rc-MW-Sensor



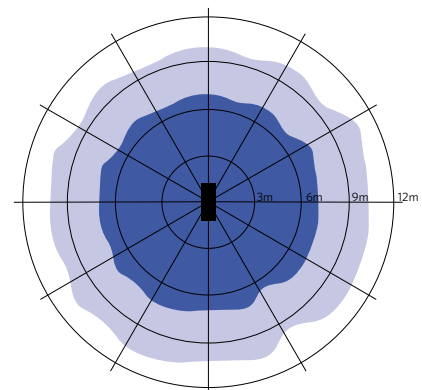
Recommended Height (m)	Sensitivity Setting	Detection Radius (m)
3	Low	7
8	Middle	9
9	High	10
12	High	7



Installation - Low Ceiling
Suggested installation height 3m



Installation - Medium Ceiling
Suggested installation height 8m



Installation - High Ceiling
Suggested installation height 9-12m





Smart Relay

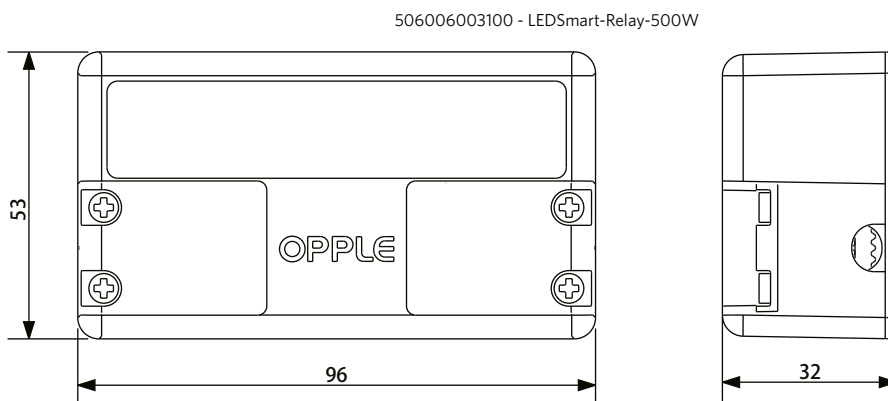
- Smart Relay for use in the OPPLE Smart Lighting System
- Simple wireless control of each type/brand of luminaire
- Compatible with OPPLE Smart Sensors and OPPLE Smart Switches
- Very easy to set up with the OPPLE Smart Lighting App or Smart Web Interface
- Including built-in energy meter
- Completely wireless communication through Bluetooth® Low Energy (BLE)
- Also suitable for control of Class I luminaires



Specifications

Item Code	Item Description
506006003100	LEDSmart-Relay-500W

Dimensional drawing (mm)



Technical Specifications	
IP-class	IP20
Protection Class	II
Finishing	White RAL9003
Communication	Oppl Bluetooth® Low Energy Mesh
Max. switching capacity	500W LED
Max. load	500 W

Electrical Supply	
Nominal voltage	220-240 V AC
Max. inrush or surge current I _p (20 ms)	120 A
Frequency	50/60 Hz
Connection cable	0.75-2.5mm ²

Mechanical Properties	
Material housing	PC

Ambient conditions	
Application Temperature	+25°C





Smart Switch

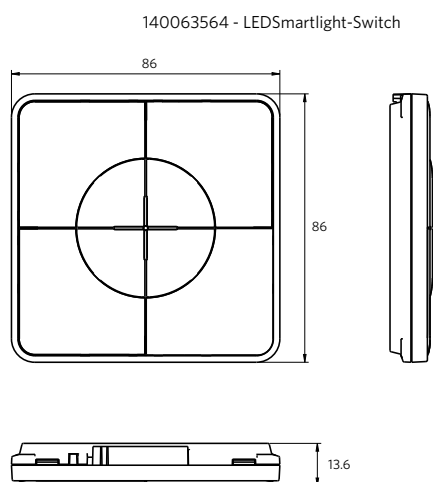
- Completely wireless operating panel for use in OPPLE Smart Lighting Systems
- Simple on/off switching and dimming of the Smart Lighting luminaires
- Equipped with 4 extra button activate created light scenes
- Compatible with OPPLE Smart Sensors
- Extremely simple to set with the OPPLE Smart Lighting App or Smart Web Interface
- Wireless communication through Bluetooth® Low Energy (BLE)



Specifications

Item Code	Item Description
140063564	LEDSmartlight-Switch

Dimensional drawing (mm)



Can be installed using the supplied screws or affixing strips, or directly to the wall outlet.

Technical Specifications	
IP-class	IP20
IK-class	IK02
Finishing	White RAL9003
Communication	Opplé Bluetooth® Low Energy Mesh

Electrical Supply	
Nominal voltage	3
Type of battery	CR2430
Min. lifespan battery	2 years

Mechanical Properties	
Material housing	PC





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LED Panel Grille

- Design low glare LED panel
- Direct replacement for existing T5 and T8 fixtures
- Comfortable lighting for study and work environment (UGR < 16)
- System efficacy up to 130 lm/W
- Significantly lower energy consumption up to 65%



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
140043967	LEDPanelRc-G Sq598-33W-3000-WH-CT	TL 4x18W	33	4200	127	3000	4.12
140043968	LEDPanelRc-G Sq598-33W-4000-WH-CT	TL 4x18W	33	4300	130	4000	4.12
140043971	LEDPanelRc-G Re298-33W-3000-WH-CT	TL 2x36W	33	4200	127	3000	5.33
140043972	LEDPanelRc-G Re298-33W-4000-WH-CT	TL 2x36W	33	4300	130	4000	5.33
DALI							
140046181	LEDPanelRc-G Sq598-33W-DALI-3000-WH-CT	TL 4x18W	33	4200	127	3000	4.90
140046182	LEDPanelRc-G Sq598-33W-DALI-4000-WH-CT	TL 4x18W	33	4300	130	4000	4.90
140046185	LEDPanelRc-G Re298-33W-DALI-3000-WH-CT	TL 2x36W	33	4200	127	3000	5.00
140046186	LEDPanelRc-G Re298-33W-DALI-4000-WH-CT	TL 2x36W	33	4300	130	4000	5.00
Smart							
542008007900	LEDPanelRc-G Sq598-33W-BLE-3000-WH-CT	TL 4x18W	33	4200	127	3000	4.12
542008008000	LEDPanelRc-G Sq598-33W-BLE-4000-WH-CT	TL 4x18W	33	4300	130	4000	4.12
542008008100	LEDPanelRc-G Re298-33W-BLE-3000-WH-CT	TL 2x36W	33	4200	127	3000	5.33
542008008200	LEDPanelRc-G Re298-33W-BLE-4000-WH-CT	TL 2x36W	33	4300	130	4000	5.33

Available on request with 3- or 5- or 3+2 pole Wieland GST18i or Wago WINSTA connector. Emergency lighting available on request. BLE versions are not compatible with surface module accessories.

Accessories

Surface Mounting Frame

Recessed Mounting Frame



140044054
LEDPanelRc-G Sq598-Surface
Module-CT



140044056
LEDPanelRc-G Sq298-Surface
Module-CT



140044055
LEDPanelRc-G Re298-Surface
Module-CT



140044057
LEDPanelRc-G Re166-Surface
Module-CT



542098009600
LEDPanelRc Sq600-Frame-
WH



542098009800
LEDPanelRc Re300-Frame-
WH



140060852
LEDFixture-Ceiling-Cable-Kit-0.5m

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / DALI / BLE
Beam angle	90 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
UGR	≤ 16
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	I / II (DALI/BLE)
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

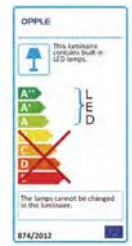
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

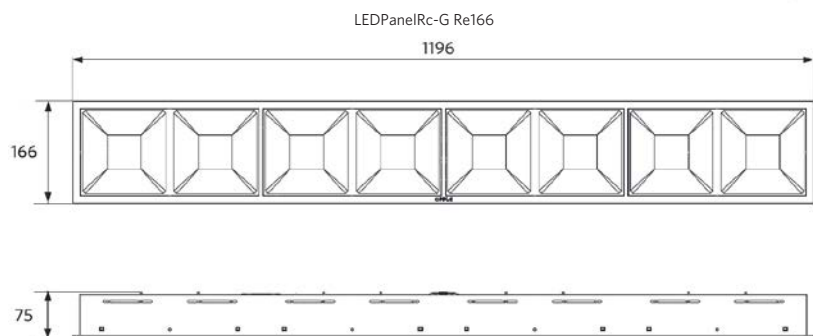
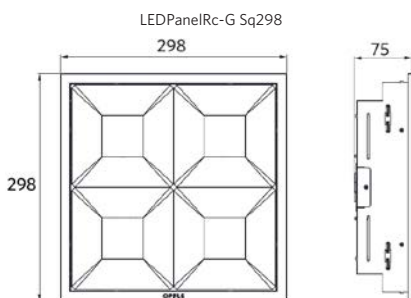
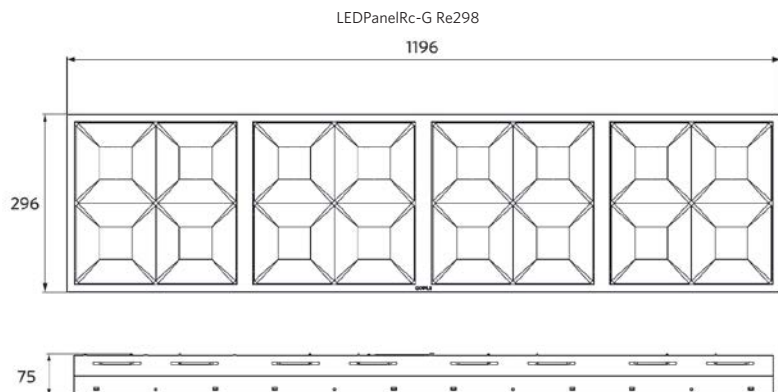
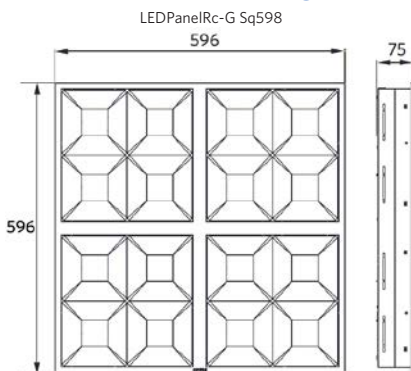
Material housing	Coated Steel
Optical material	Polycarbonate

Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Panel Monza

- Architectural LED panel with direct/indirect light
- Unique low glare optics
- High efficacy up to 114 lm/W
- Suitable for office applications, UGR<19
- Perfect replacement of traditional CFL 55W panels - offering up to 50% energy saving
- DALI2 driver compatible with 230V push dimming



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
542003016800	LEDPanelRc-Mo Sq595-35W-3000-WH-U19	CFL 1x55W	35	3800	109	3000	4.18
542003016900	LEDPanelRc-Mo Sq595-35W-4000-WH-U19	CFL 1x55W	35	4000	114	4000	4.18
DALI2							
542003015200	LEDPanelRc-Mo Sq595-35W-DALI-3000-WH-U19	CFL 1x55W	35	3800	109	3000	4.22
542003015300	LEDPanelRc-Mo Sq595-35W-DALI-4000-WH-U19	CFL 1x55W	35	4000	114	4000	4.22
Smart							
542003015600	LEDPanelRc-Mo Sq595-35W-BLE-3000-WH-U19	CFL 1x55W	35	3800	109	3000	4.23
542003015700	LEDPanelRc-Mo Sq595-35W-BLE-4000-WH-U19	CFL 1x55W	35	4000	114	4000	4.23
1-10V							
542003016000	LEDPanelRc-Mo Sq595-35W-10V-3000-WH-U19	CFL 1x55W	35	3800	109	3000	4.22
542003016100	LEDPanelRc-Mo Sq595-35W-10V-4000-WH-U19	CFL 1x55W	35	4000	114	4000	4.22

Available on request with 3- or 5- or 3+2 pole Wieland GST18i or Wago WINSTA connector. Emergency lighting available on request. DALI2 versions are compatible with central emergency lighting according to EN 50172.

Accessories

Recessed Mounting Frame



542098009600
LEDPanelRc Sq600-Frame-WH



542098000800
LEDPanelRC-SI U19 EM-kit 1h
542098000900
LEDPanelRC-SI U19 EM-kit 3h



140060852
LEDFixture-Ceiling-Cable-Kit-0.5m



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / BLE / 1-10V / DALI2
Beam angle	90 °
Finishing	White
Colour rendering index CRI	≥ 80
UGR	≤ 19
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

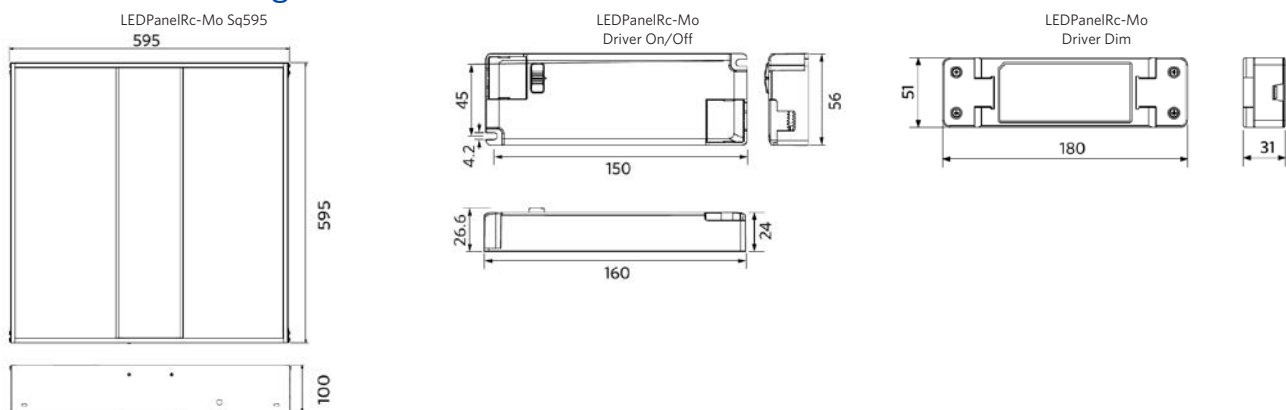
Material housing	Steel
Optical material	PMMA
Cover material	Polystyrene

Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Panel Sydney

- Powerful LED panel, ideal for clutter-free ceilings
- Homogenous light distribution, with low glare optics
- Robust full metal housing
- High efficacy up to 108 lm/W
- Suitable for office applications, UGR<19
- DALI2 driver compatible with 230V push dimming



Specifications

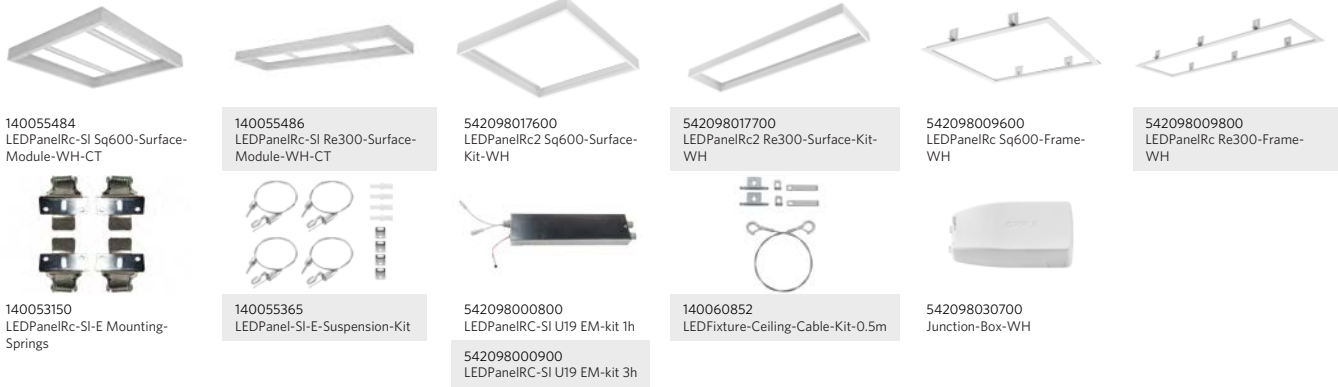
Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
542008000900	LEDPanelRc-Sy Sq595-35W-3000-WH-U19	TL 4x18W	35	3600	103	3000	3.28
542008001000	LEDPanelRc-Sy Sq595-35W-4000-WH-U19	TL 4x18W	35	3800	108	4000	3.28
542008001100	LEDPanelRc-Sy Re295-35W-3000-WH-U19	TL 2x36W	35	3600	103	3000	3.40
542008001200	LEDPanelRc-Sy Re295-35W-4000-WH-U19	TL 2x36W	35	3800	108	4000	3.40
DALI2							
542008001300	LEDPanelRc-Sy Sq595-35W-DALI-3000-WH-U19	TL 4x18W	35	3600	103	3000	3.32
542008001400	LEDPanelRc-Sy Sq595-35W-DALI-4000-WH-U19	TL 4x18W	35	3800	108	4000	3.32
542008001500	LEDPanelRc-Sy Re295-35W-DALI-3000-WH-U19	TL 2x36W	35	3600	103	3000	3.44
542008001600	LEDPanelRc-Sy Re295-35W-DALI-4000-WH-U19	TL 2x36W	35	3800	108	4000	3.44
Smart							
542008002100	LEDPanelRc-Sy Sq595-35W-BLE-3000-WH-U19	TL 4x18W	35	3600	103	3000	3.33
542008002200	LEDPanelRc-Sy Sq595-35W-BLE-4000-WH-U19	TL 4x18W	35	3800	108	4000	3.33
542008002300	LEDPanelRc-Sy Re295-35W-BLE-3000-WH-U19	TL 2x36W	35	3600	103	3000	3.45
542008002400	LEDPanelRc-Sy Re295-35W-BLE-4000-WH-U19	TL 2x36W	35	3800	108	4000	3.45
1-10V							
542008001700	LEDPanelRc-Sy Sq595-35W-10V-3000-WH-U19	TL 4x18W	35	3600	103	3000	3.32
542008001800	LEDPanelRc-Sy Sq595-35W-10V-4000-WH-U19	TL 4x18W	35	3800	108	4000	3.32
542008001900	LEDPanelRc-Sy Re295-35W-10V-3000-WH-U19	TL 2x36W	35	3600	103	3000	3.44
542008002000	LEDPanelRc-Sy Re295-35W-10V-4000-WH-U19	TL 2x36W	35	3800	108	4000	3.44

Available on request with 3- or 5- or 3+2 pole Wieland GST18i or Wago WINSTA connector. Emergency lighting available on request. DALI2 versions are compatible with central emergency lighting according to EN 50172. BLE versions are not compatible with surface module accessories.

Accessories

Surface Mounting Frame

Recessed Mounting Frame



Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / BLE / 1-10V / DALI2
Beam angle	80 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
UGR	≤ 19
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

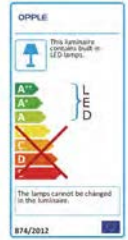
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

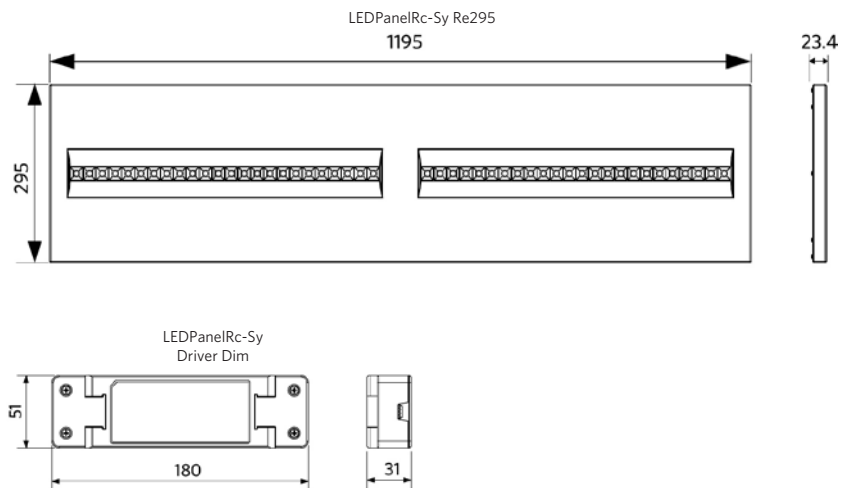
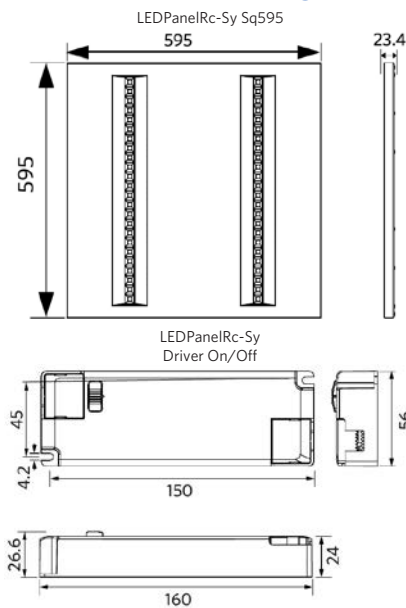
Material housing	Steel
Optical material	Polycarbonate

Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Slim Panel Performer UGR19 G5

- High quality LED Slim Panel, suitable for offices (UGR19)
- Tunable white Smart version available (2700-6500K)
- Improved output up to 4420lm
- Standard IP54 (front side) (except Tunable white versions)
- Selectable light output on driver
- Recessed, suspended and surface mounting possible
- Up to 60% lower energy consumption vs TL
- DALI2 driver compatible with 230V push dimming



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
On-Off								
542004068200	LEDPanelRc-S5 Sq595-30W-830-U19	TL 4x18W	30	3750	125	3000	≥ 80	2.49
542004068300	LEDPanelRc-S5 Sq595-30W-840-U19	TL 4x18W	30	3900	130	4000	≥ 80	2.49
542004068400	LEDPanelRc-S5 Re295-30W-830-U19	TL 2x36W	30	3750	125	3000	≥ 80	2.46
542004068500	LEDPanelRc-S5 Re295-30W-840-U19	TL 2x36W	30	3900	130	4000	≥ 80	2.46
542004071000	LEDPanelRc-S5 Sq595-34W-830-U19	TL 4x18W	34	4250	125	3000	≥ 80	2.49
542004071100	LEDPanelRc-S5 Sq595-34W-840-U19	TL 4x18W	34	4420	130	4000	≥ 80	2.49
542004074600	LEDPanelRc-S5 Sq595-34W-940-U19	TL 4x18W	34	3910	115	4000	≥ 90	2.49
542004071200	LEDPanelRc-S5 Re295-34W-830-U19	TL 2x36W	34	4250	125	3000	≥ 80	2.46
542004071300	LEDPanelRc-S5 Re295-34W-840-U19	TL 2x36W	34	4420	130	4000	≥ 80	2.46
542004074800	LEDPanelRc-S5 Re295-34W-940-U19	TL 2x36W	34	3910	115	4000	≥ 90	2.46
DALI2								
542004068900	LEDPanelRc-S5 Sq595-30W-DALI-830-U19	TL 4x18W	30	3750	125	3000	≥ 80	2.49
542004069000	LEDPanelRc-S5 Sq595-30W-DALI-840-U19	TL 4x18W	30	3900	130	4000	≥ 80	2.49
542004069100	LEDPanelRc-S5 Re295-30W-DALI-830-U19	TL 2x36W	30	3750	125	3000	≥ 80	2.46
542004069200	LEDPanelRc-S5 Re295-30W-DALI-840-U19	TL 2x36W	30	3900	130	4000	≥ 80	2.46
542004071700	LEDPanelRc-S5 Sq595-34W-DALI-830-U19	TL 4x18W	34	4250	125	3000	≥ 80	2.49
542004071800	LEDPanelRc-S5 Sq595-34W-DALI-840-U19	TL 4x18W	34	4420	130	4000	≥ 80	2.49
542004075200	LEDPanelRc-S5 Sq595-34W-DALI-940-U19	TL 4x18W	34	3910	115	4000	≥ 90	2.49
542004071900	LEDPanelRc-S5 Re295-34W-DALI-830-U19	TL 2x36W	34	4250	125	3000	≥ 80	2.46
542004072000	LEDPanelRc-S5 Re295-34W-DALI-840-U19	TL 2x36W	34	4420	130	4000	≥ 80	2.46
542004075400	LEDPanelRc-S5 Re295-34W-DALI-940-U19	TL 2x36W	34	3910	115	4000	≥ 90	2.46
Smart								
542004069600	LEDPanelRc-S5 Sq595-30W-BLE-830-U19	TL 4x18W	30	3750	125	3000	≥ 80	2.49
542004069700	LEDPanelRc-S5 Sq595-30W-BLE-840-U19	TL 4x18W	30	3900	130	4000	≥ 80	2.49
542004069800	LEDPanelRc-S5 Re295-30W-BLE-830-U19	TL 2x36W	30	3750	125	3000	≥ 80	2.46
542004069900	LEDPanelRc-S5 Re295-30W-BLE-840-U19	TL 2x36W	30	3900	130	4000	≥ 80	2.46
542004072400	LEDPanelRc-S5 Sq595-34W-BLE-830-U19	TL 4x18W	34	4250	125	3000	≥ 80	2.49
542004072500	LEDPanelRc-S5 Sq595-34W-BLE-840-U19	TL 4x18W	34	4420	130	4000	≥ 80	2.49
542004075800	LEDPanelRc-S5 Sq595-34W-BLE-940-U19	TL 4x18W	34	3910	115	4000	≥ 90	2.49

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
Smart								
542004072600	LEDPanelRc-S5 Re295-34W-BLE-830-U19	TL 2x36W	34	4250	125	3000	≥ 80	2.46
542004072700	LEDPanelRc-S5 Re295-34W-BLE-840-U19	TL 2x36W	34	4420	130	4000	≥ 80	2.46
542004076000	LEDPanelRc-S5 Re295-34W-BLE-940-U19	TL 2x36W	34	3910	115	4000	≥ 90	2.46
Smart Tunable White								
542004067600	LEDPanelRc-S5 Sq595-34W-BLE-TW-U19	TL 4x18W	34	3800	112	2700-6500	≥ 80	2.49
1-10V								
542004070300	LEDPanelRc-S5 Sq595-30W-10V-830-U19	TL 4x18W	30	3750	125	3000	≥ 80	2.49
542004070400	LEDPanelRc-S5 Sq595-30W-10V-840-U19	TL 4x18W	30	3900	130	4000	≥ 80	2.49
542004070500	LEDPanelRc-S5 Re295-30W-10V-830-U19	TL 2x36W	30	3750	125	3000	≥ 80	2.46
542004070600	LEDPanelRc-S5 Re295-30W-10V-840-U19	TL 2x36W	30	3900	130	4000	≥ 80	2.46
542004073100	LEDPanelRc-S5 Sq595-34W-10V-830-U19	TL 4x18W	34	4250	125	3000	≥ 80	2.49
542004073200	LEDPanelRc-S5 Sq595-34W-10V-840-U19	TL 4x18W	34	4420	130	4000	≥ 80	2.49
542004076400	LEDPanelRc-S5 Sq595-34W-10V-940-U19	TL 4x18W	34	3910	115	4000	≥ 90	2.49
542004073300	LEDPanelRc-S5 Re295-34W-10V-830-U19	TL 2x36W	34	4250	125	3000	≥ 80	2.46
542004073400	LEDPanelRc-S5 Re295-34W-10V-840-U19	TL 2x36W	34	4420	130	4000	≥ 80	2.46
542004076600	LEDPanelRc-S5 Re295-34W-10V-940-U19	TL 2x36W	34	3910	115	4000	≥ 90	2.46

Available on request with 3- or 5- or 3+2 pole Wieland GST18i of Wago WINSTA connector. DALI2 versions are compatible with central emergency lighting according to EN 50172. BLE versions are not compatible with surface module accessories.

Accessories

Surface Mounting Frame			Recessed Mounting Frame		
					
140055484 LEDPanelRc-SI Sq600-Surface-Module-WH-CT	140055486 LEDPanelRc-SI Re300-Surface-Module-WH-CT	542098017600 LEDPanelRc2 Sq600-Surface-Kit-WH	542098017700 LEDPanelRc2 Re300-Surface-Kit-WH	542098009600 LEDPanelRc Sq600-Frame-WH	542098009800 LEDPanelRc Re300-Frame-WH
					
140057770 LEDPanelRc-SI Mounting-Springs-595	542098006900 LEDPanel-S4 Suspension-Kit	542098000800 LEDPanelRc-SI U19 EM-kit 1h	140060852 LEDFixture-Ceiling-Cable-Kit-0.5m	542098030700 Junction-Box-WH	
		542098000900 LEDPanelRc-SI U19 EM-kit 3h			

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / DALI / BLE / 1-10V
Beam angle	85 °
Finishing	White RAL9003
UGR	≤ 19
IP front side	IP20 (TW) / IP54
IP recessed part	IP20
Impact strength	IK04
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	PMMA
Cover material	Polystyrene

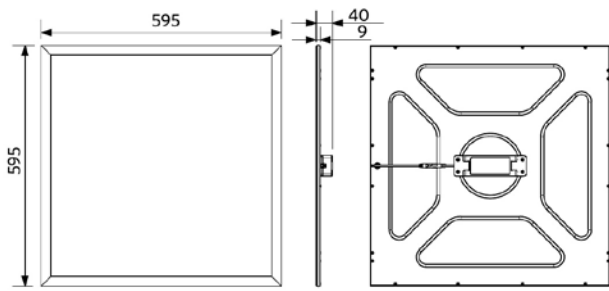
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

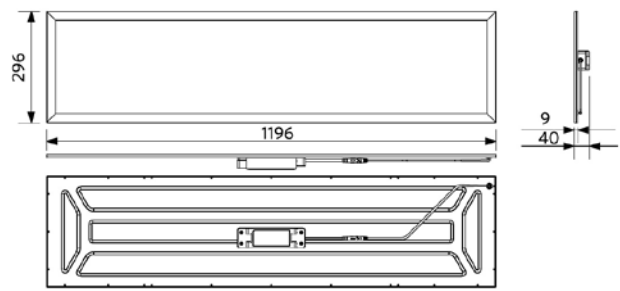


Dimensional Drawing (mm)

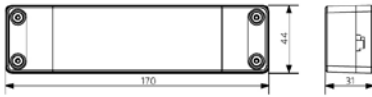
LEDPanelRc-S5 Sq595



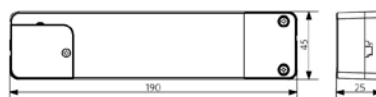
LEDPanelRc-S5 Re295



LEDPanelRc-S5
Driver On/Off



LEDPanelRc-S5
Driver Tunable White





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY



LED Slim Panel EcoMax UGR22

- High quality LED Slim Panel
- Up to 55% lower energy consumption vs TL
- Multiple accessories available



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
140062700	LEDPanelRc-S-E2 Sq595-34W-3000-WH-U22	TL 4x18W	34	3500	105	3000	3.20
140062701	LEDPanelRc-S-E2 Sq595-34W-4000-WH-U22	TL 4x18W	34	3500	105	4000	3.20
140062706	LEDPanelRc-S-E2 Re295-34W-3000-WH-U22	TL 2x36W	34	3500	105	3000	3.20
140062707	LEDPanelRc-S-E2 Re295-34W-4000-WH-U22	TL 2x36W	34	3500	105	4000	3.20

Available on request with 3- pole Wieland GST18i or Wago WINSTA connector. Emergency lighting available on request.

Accessories

Surface Mounting Frame

Recessed Mounting Frame



140055484
LEDPanelRc-SI Sq600-Surface-Module-WH-CT



140055486
LEDPanelRc-SI Re300-Surface-Module-WH-CT



542098017600
LEDPanelRc2 Sq600-Surface-Kit-WH



542098017700
LEDPanelRc2 Re300-Surface-Kit-WH



542098009600
LEDPanelRc Sq600-Frame-WH



542098009800
LEDPanelRc Re300-Frame-WH



140053150
LEDPanelRc-SI-E Mounting-Springs



140055365
LEDPanel-SI-E-Suspension-Kit



542098000800
LEDPanelRC-SI U19 EM-kit 1h
542098000900
LEDPanelRC-SI U19 EM-kit 3h



140060852
LEDFixture-Ceiling-Cable-Kit-0.5m



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	120 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
UGR	≤ 22
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

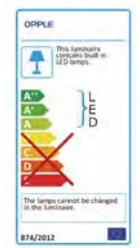
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

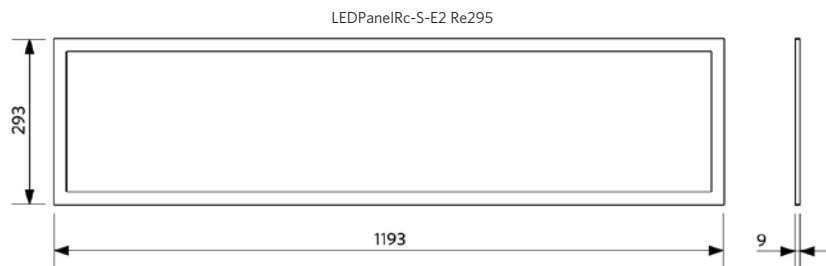
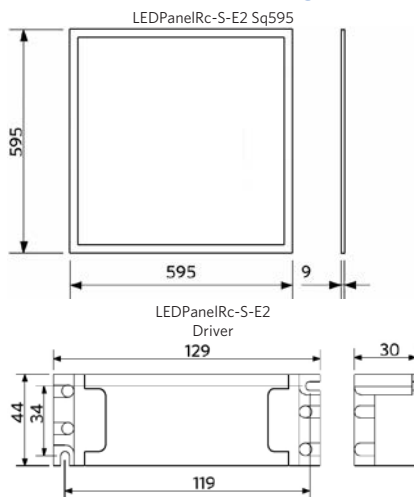
Material housing	Aluminium
Optical material	Polystyrene
Cover material	Polycarbonate (PC)

Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Slim Panel Basic G2

- NEW: Rectangular 295 versions available
- Cost effective LED Slim Panel
- Improved efficacy up to 115lm/W
- Recessed ceiling frame and surface module kit available as accessory
- Suitable for recessed and suspended applications
- Replacement for conventional 4x18W or 2x36W luminaire
- Energy saving up to 55%
- Comfortable and uniform light available in UGR22 and UGR19



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Beam angle	Weight (kg/pc)
On-Off									
542003021200	LEDPanelRc-S-B2 Sq595-36W-3000-WH-U19	TL 4x18W	36	3500	97	≤ 19	3000	90 °	2.10
542003021400	LEDPanelRc-S-B2 Sq595-36W-4000-WH-U19	TL 4x18W	36	3500	97	≤ 19	4000	90 °	2.10
542003021100	LEDPanelRc-S-B2 Sq595-36W-3000-WH	TL 4x18W	36	3500	97	≤ 22	3000	120 °	1.68
542003021300	LEDPanelRc-S-B2 Sq595-36W-4000-WH	TL 4x18W	36	3500	97	≤ 22	4000	120 °	1.68
542003046500	LEDPanelRc-S-B2 Re295-32W-3000-WH-U19	TL 2x36W	32	3600	112	≤ 19	3000	90 °	2.40
542003046700	LEDPanelRc-S-B2 Re295-32W-4000-WH-U19	TL 2x36W	32	3680	115	≤ 19	4000	90 °	2.40
542003046400	LEDPanelRc-S-B2 Re295-32W-3000-WH	TL 2x36W	32	3600	112	≤ 22	3000	120 °	2.40
542003046600	LEDPanelRc-S-B2 Re295-32W-4000-WH	TL 2x36W	32	3680	115	≤ 22	4000	120 °	2.40

Accessories

Surface Mounting Frame		Recessed Mounting Frame			
542098017600 LEDPanelRc2 Sq600-Surface-Kit-WH	542098017700 LEDPanelRc2 Re300-Surface-Kit-WH	542098009600 LEDPanelRc Sq600-Frame-WH	542098009800 LEDPanelRc Re300-Frame-WH	542003021800 LEDPanelRc-S-B2 Mounting-Springs	542098033000 LEDPanelRc-S-B2 Re298 Mounting-Springs
542003021700 LEDPanelRc-S-B2 Suspension-Kit	542098030700 Junction-Box-WH	140060852 LEDFixture-Ceiling-Cable-Kit-0.5m			

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	5
Dimmability	On-Off
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

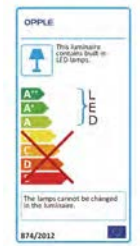
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

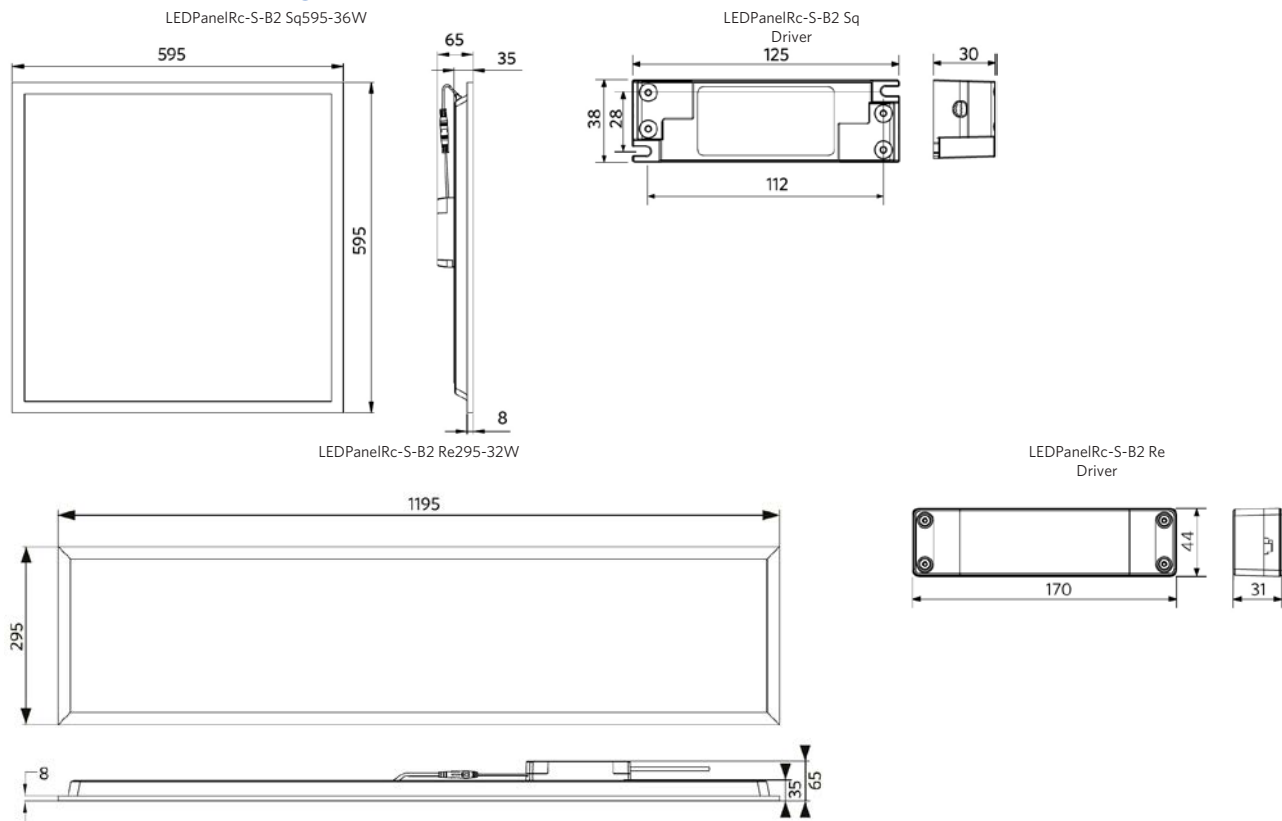
Material housing	Aluminium
Optical material	Polystyrene
Cover material	Polystyrene

Ambient Conditions

Operating temperature	-10-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Lima

- Stylish linear luminaire suitable for surface mounting and suspended use
- Suitable for use in office
- Available in 1200 & 1500mm length
- Suspension kit including transparent cable as accessory
- Connection kit accessory to create continuous lines available
- DALI or Smart Lighting (BLE) dimmable



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Weight (kg/pc)
DALI								
542005000500	LEDLima L12-15W-3000-U19-DALI	TL 1x28W	15	1725	115	≤ 19	3000	2.55
542005000600	LEDLima L12-15W-4000-U19-DALI	TL 1x28W	15	1800	120	≤ 19	4000	2.55
542005001300	LEDLima L12-30W-3000-DALI	TL 1x54W	30	3300	110	≤ 22	3000	2.55
542005001400	LEDLima L12-30W-4000-DALI	TL 1x54W	30	3450	115	≤ 22	4000	2.55
542005000700	LEDLima L15-18W-3000-U19-DALI	TL 1x35W	18	2070	115	≤ 19	3000	3.08
542005000800	LEDLima L15-18W-4000-U19-DALI	TL 1x35W	18	2160	120	≤ 19	4000	3.08
542005001500	LEDLima L15-36W-3000-DALI	TL 1x80W	36	3960	110	≤ 22	3000	3.08
542005001600	LEDLima L15-36W-4000-DALI	TL 1x80W	36	4140	115	≤ 22	4000	3.08
Smart								
542005004900	LEDLima L12-15W-3000-U19-BLE	TL 1x28W	15	1725	115	≤ 19	3000	2.55
542005004800	LEDLima L12-15W-4000-U19-BLE	TL 1x28W	15	1800	120	≤ 19	4000	2.55
542005004500	LEDLima L12-30W-3000-BLE	TL 1x54W	30	3300	110	≤ 22	3000	2.55
542005004400	LEDLima L12-30W-4000-BLE	TL 1x54W	30	3450	115	≤ 22	4000	2.55
542005004700	LEDLima L15-18W-3000-U19-BLE	TL 1x35W	18	2070	115	≤ 19	3000	3.08
542005004600	LEDLima L15-18W-4000-U19-BLE	TL 1x35W	18	2160	120	≤ 19	4000	3.08
542005004300	LEDLima L15-36W-3000-BLE	TL 1x80W	36	3960	110	≤ 22	3000	3.08
542005004200	LEDLima L15-36W-4000-BLE	TL 1x80W	36	4140	115	≤ 22	4000	3.08
Emergency version 1 hour, DALI								
549004002400	LEDLima L12-15W-3000-U19-DALI-EM1	TL 1x28W	15	1725	115	≤ 19	3000	2.85
549004002500	LEDLima L12-15W-4000-U19-DALI-EM1	TL 1x28W	15	1800	120	≤ 19	4000	2.85
549004002600	LEDLima L15-18W-3000-U19-DALI-EM1	TL 1x35W	18	2070	115	≤ 19	3000	3.38
549004002700	LEDLima L15-18W-4000-U19-DALI-EM1	TL 1x35W	18	2160	120	≤ 19	4000	3.38
549004002800	LEDLima L12-30W-3000-DALI-EM1	TL 1x54W	30	3300	110	≤ 22	3000	2.85
549004002900	LEDLima L12-30W-4000-DALI-EM1	TL 1x54W	30	3450	115	≤ 22	4000	2.85
549004003000	LEDLima L15-36W-3000-DALI-EM1	TL 1x80W	36	3960	110	≤ 22	3000	3.38
549004003100	LEDLima L15-36W-4000-DALI-EM1	TL 1x80W	36	4140	115	≤ 22	4000	3.38
Emergency version 3 hours, DALI								
549004003200	LEDLima L12-15W-3000-U19-DALI-EM3	TL 1x28W	15	1725	115	≤ 19	3000	2.95
549004003300	LEDLima L12-15W-4000-U19-DALI-EM3	TL 1x28W	15	1800	120	≤ 19	4000	2.95
549004003400	LEDLima L15-18W-3000-U19-DALI-EM3	TL 1x35W	18	2070	115	≤ 19	3000	3.48
549004003500	LEDLima L15-18W-4000-U19-DALI-EM3	TL 1x35W	18	2160	120	≤ 19	4000	3.48

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Weight (kg/pc)
Emergency version 3 hours, DALI								
549004003600	LEDLima L12-30W-3000-DALI-EM3	TL 1x54W	30	3300	110	≤ 22	3000	2.95
549004003700	LEDLima L12-30W-4000-DALI-EM3	TL 1x54W	30	3450	115	≤ 22	4000	2.95
549004003800	LEDLima L15-36W-3000-DALI-EM3	TL 1x80W	36	3960	110	≤ 22	3000	3.48
549004003900	LEDLima L15-36W-4000-DALI-EM3	TL 1x80W	36	4140	115	≤ 22	4000	3.48

Accessories



599006009000
LEDLima Suspension-Kit



599006008900
LEDLima Connection-Kit

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Dimmability	DALI / BLE
Beam angle	70 °
Finishing	Aluminum
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

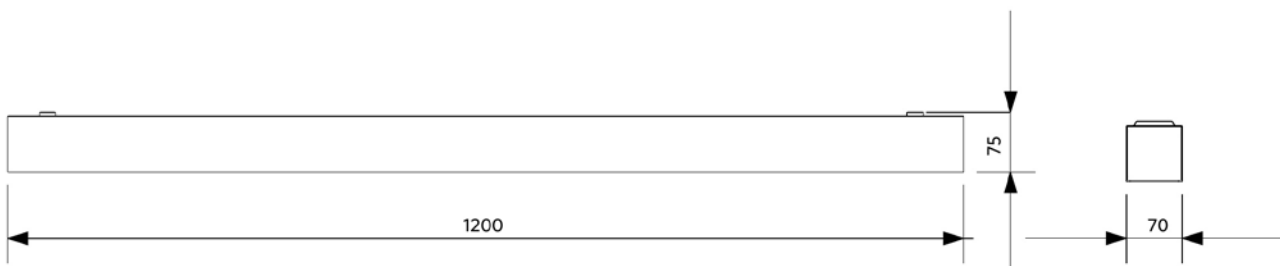
Ambient Conditions

Operating temperature	-10-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

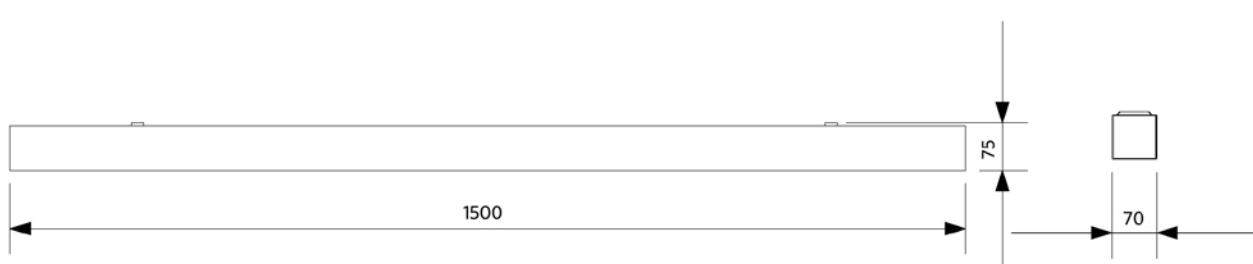


Dimensional Drawing (mm)

LEDLima L12



LEDLima L15





LED Panel Suspended Zenith

- Special design luminaire distributes light both up and down, combining comfort and efficiency
- High lumen output and high efficacy up to 105 lm/W
- Light up your offices and meeting rooms in an architectural way
- Save up to 50% energy compared to fluorescent solutions
- DALI2 and Smart Lighting (BLE) versions available
- DALI2 driver compatible with 230V push dimming



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
DALI2							
140054053	LEDPanelSp-Z L1222-75W-DALI-3000-AL	TL 2x58W	75	7875	105	3000	3.90
140054054	LEDPanelSp-Z L1222-75W-DALI-4000-AL	TL 2x58W	75	7875	105	4000	3.90
Smart							
542006001000	LEDPanelSp-Z L1222-75W-BLE-3000-AL	TL 2x58W	75	7875	105	3000	3.90
542006000900	LEDPanelSp-Z L1222-75W-BLE-4000-AL	TL 2x58W	75	7875	105	4000	3.90

All codes include the required suspension kit. Suspension length 2.5m.
Available on Request with 5- or 2+3 pole Wieland GST18i connector.

Technical Specifications

Lifetime (L70)	60,000 h
Lifetime (L80)	40,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	BLE / DALI2
Beam angle	112° up (50%) + down (50%)
Finishing	Aluminum
Colour rendering index CRI	≥ 80
UGR	≤ 19
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

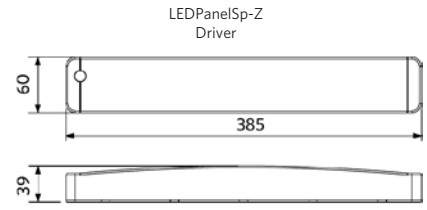
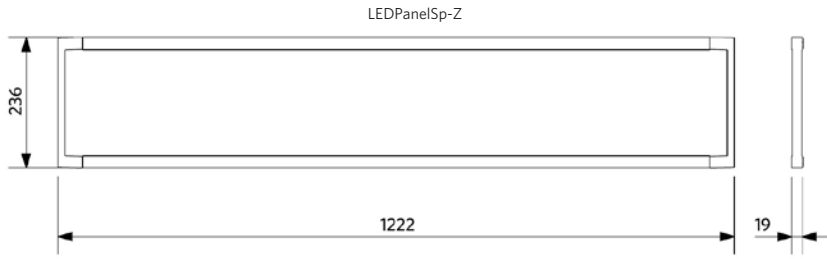
Material housing	Aluminium
Optical material	PMMA
Cover material	Semi-opaque PMMA

Ambient Conditions

Operating temperature	-20-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Downlight Performer HG

- NEW: Tunable white Smart version available (2700-6500K)
- Advanced high quality LED downlight
- Unique optical lens concept with high gloss (HG) reflector and low glare
- Low luminaire height (max 73mm)
- Direct replacement for compact fluorescent downlights - saving over 60% of energy costs
- IP44 on light emitting side
- Common cut-out diameters of 150mm and 200mm
- Provided with protective foil in order to protect the optics against dust and dirt during the installation



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
On-Off									
140057154	LEDDownlightRc-P-HG R150-11.5W-3000	CFL 1x18W	11.5	1240	108	≤ 19	3000	≥ 80	0.45
140057155	LEDDownlightRc-P-HG R150-11.5W-4000	CFL 1x18W	11.5	1265	110	≤ 19	4000	≥ 80	0.45
140057152	LEDDownlightRc-P-HG R200-15W-3000	CFL 1x26W	15	1620	108	≤ 19	3000	≥ 80	0.76
140057153	LEDDownlightRc-P-HG R200-15W-4000	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 80	0.76
540001083800	LEDDownlightRc-P-HG R200-15W-940	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 90	0.76
140057156	LEDDownlightRc-P-HG R200-23W-3000	CFL 2x26W	23	2480	108	≤ 19	3000	≥ 80	0.76
140057157	LEDDownlightRc-P-HG R200-23W-4000	CFL 2x26W	23	2530	110	≤ 19	4000	≥ 80	0.76
540001084000	LEDDownlightRc-P-HG R200-23W-940	CFL 2x26W	23	2530	110	≤ 19	4000	≥ 90	0.76
140057158	LEDDownlightRc-P-HG R200-33W-3000	CFL 2x32W	33	3560	108	≤ 22	3000	≥ 80	0.76
140057159	LEDDownlightRc-P-HG R200-33W-4000	CFL 2x32W	33	3630	110	≤ 22	4000	≥ 80	0.76
DALI									
140057162	LEDDownlightRc-P-HG R150-11.5W-DALI-3000	CFL 1x18W	11.5	1240	108	≤ 19	3000	≥ 80	0.45
140057163	LEDDownlightRc-P-HG R150-11.5W-DALI-4000	CFL 1x18W	11.5	1265	110	≤ 19	4000	≥ 80	0.45
140057160	LEDDownlightRc-P-HG R200-15W-DALI-3000	CFL 1x26W	15	1620	108	≤ 19	3000	≥ 80	0.76
140057161	LEDDownlightRc-P-HG R200-15W-DALI-4000	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 80	0.76
540001084600	LEDDownlightRc-P-HG R200-15W-DALI-940	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 90	0.76
140057164	LEDDownlightRc-P-HG R200-23W-DALI-3000	CFL 2x26W	23	2480	108	≤ 19	3000	≥ 80	0.76
140057165	LEDDownlightRc-P-HG R200-23W-DALI-4000	CFL 2x26W	23	2530	110	≤ 19	4000	≥ 80	0.76
540001084800	LEDDownlightRc-P-HG R200-23W-DALI-940	CFL 2x26W	23	2530	110	≤ 19	4000	≥ 90	0.76
140057166	LEDDownlightRc-P-HG R200-33W-DALI-3000	CFL 2x32W	33	3560	108	≤ 22	3000	≥ 80	0.76
140057167	LEDDownlightRc-P-HG R200-33W-DALI-4000	CFL 2x32W	33	3630	110	≤ 22	4000	≥ 80	0.76
Smart									
140063611	LEDDownlightRc-P-HG R150-11.5W-BLE-3000	CFL 1x18W	11.5	1240	108	≤ 19	3000	≥ 80	0.51
140063612	LEDDownlightRc-P-HG R150-11.5W-BLE-4000	CFL 1x18W	11.5	1265	110	≤ 19	4000	≥ 80	0.51
140063613	LEDDownlightRc-P-HG R200-15W-BLE-3000	CFL 1x26W	15	1620	108	≤ 19	3000	≥ 80	0.83
140063614	LEDDownlightRc-P-HG R200-15W-BLE-4000	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 80	0.83
540001085400	LEDDownlightRc-P-HG R200-15W-BLE-940	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 90	0.83

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
Smart									
140063615	LEDDownlightRc-P-HG R200-23W-BLE-3000	CFL 2x26W	23	2480	108	≤ 19	3000	≥ 80	0.83
140063616	LEDDownlightRc-P-HG R200-23W-BLE-4000	CFL 2x26W	23	2530	110	≤ 19	4000	≥ 80	0.83
540001085600	LEDDownlightRc-P-HG R200-23W-BLE-940	CFL 2x26W	23	2530	110	≤ 19	4000	≥ 90	0.83
140063617	LEDDownlightRc-P-HG R200-33W-BLE-3000	CFL 2x32W	33	3560	108	≤ 22	3000	≥ 80	0.83
140063618	LEDDownlightRc-P-HG R200-33W-BLE-4000	CFL 2x32W	33	3630	110	≤ 22	4000	≥ 80	0.83
Smart Tunable White									
540001184800	LEDDownlightRc-P-HG R200-25W-BLE-TW	CFL 2x26W	25	2650	106	≤ 19	2700-6500	≥ 80	0.76

Available on request with 3- or 5- or 3+2 pole Wieland GST18i or Wago WINSTA connector. BLE versions are not compatible with surface module accessories.

Accessories



140060646
LEDDownlightRc-P-HZ-Adapter-150-175

140060647
LEDDownlightRc-P-SI-E-Adapter-200-225

140060648
LEDDownlightRc-P-SI-E-Adapter-200-250



140061242
LEDDownlightRc-P-R150-Surface-Module-WH

140061243
LEDDownlightRc-P-R200-Surface-Module-WH



549098001300
LEDDownlightRc-P EM-kit 1h

549098001400
LEDDownlightRc-P EM-kit 3h



542098030700
Junction-Box-WH

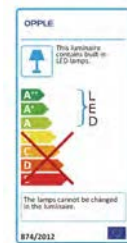
See appendix for adapter ring dimensional drawings. EM-Kit accessories cannot be used in combination with the Surface Module.

Technical Specifications	
Lifetime (L70)	60,000 h
Lifetime (L80)	40,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / DALI / BLE
Beam angle	70 °
Finishing	White RAL9003
IP front side	IP44
IP recessed part	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0 / RG1 (23W & 33W)
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties	
Material housing	Die-casted Aluminum
Optical material	Polycarbonate

Ambient Conditions	
Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



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OPPLE

UP TO 5 YEARS WARRANTY

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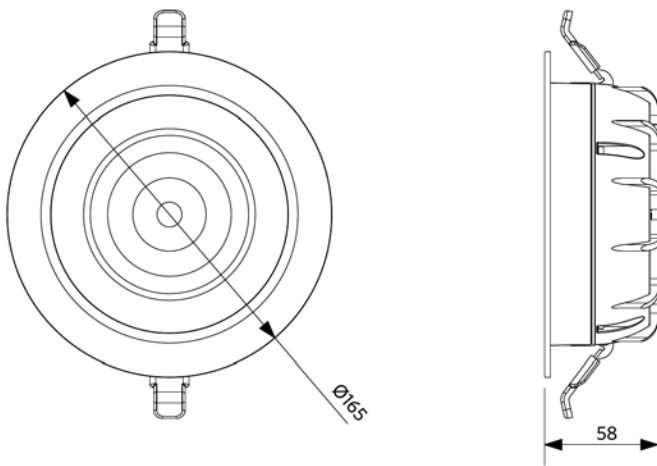
UP TO 5 YEARS WARRANTY

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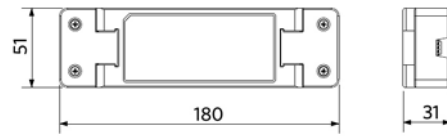
UP TO 5 YEARS WARRANTY

Dimensional Drawing (mm)

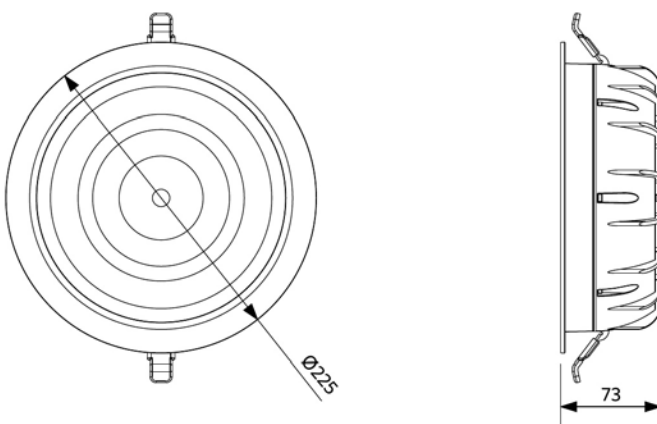
LEDDownlightRc-P-HG R150



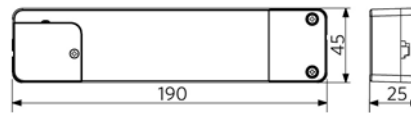
LEDDownlight Driver



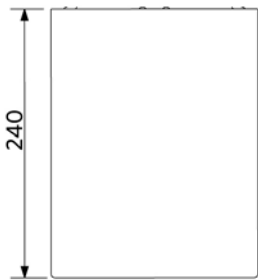
LEDDownlightRc-P-HG R200



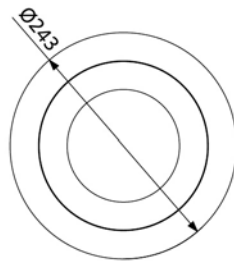
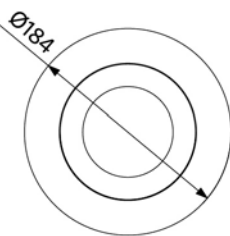
LEDDownlight Driver Tunable White



LEDDownlightRc-P-R150-Surface-Module



LEDDownlightRc-P-R200-Surface-Module



Installation Opening Drawing (mm)

LEDDownlightRc-P-HG R150
Ø150



LEDDownlightRc-P-HG R200
Ø200





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY



LED Downlight Performer MW

- NEW: Tunable white Smart version available (2700-6500K)
- Advanced high quality LED downlight
- Unique optical lens concept with matte white reflector and low glare
- Low luminaire height (max 73mm)
- Direct replacement for compact fluorescent downlights - saving over 60% of energy costs
- IP44 on light emitting side
- Common cut-out diameters of 150mm and 200mm
- Provided with protective foil in order to protect the optics against dust and dirt during the installation



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
On-Off									
140057170	LEDDownlightRc-P-MW R150-11.5W-3000	CFL 1x18W	11.5	1240	108	≤ 22	3000	≥ 80	0.45
140057171	LEDDownlightRc-P-MW R150-11.5W-4000	CFL 1x18W	11.5	1265	110	≤ 22	4000	≥ 80	0.45
140057168	LEDDownlightRc-P-MW R200-15W-3000	CFL 1x26W	15	1620	108	≤ 19	3000	≥ 80	0.76
140057169	LEDDownlightRc-P-MW R200-15W-4000	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 80	0.76
540001086200	LEDDownlightRc-P-MW R200-15W-940	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 90	0.76
140057172	LEDDownlightRc-P-MW R200-23W-3000	CFL 2x26W	23	2480	108	≤ 22	3000	≥ 80	0.76
140057173	LEDDownlightRc-P-MW R200-23W-4000	CFL 2x26W	23	2530	110	≤ 22	4000	≥ 80	0.76
540001086400	LEDDownlightRc-P-MW R200-23W-940	CFL 2x26W	23	2530	110	≤ 22	4000	≥ 90	0.76
140057174	LEDDownlightRc-P-MW R200-33W-3000	CFL 2x32W	33	3560	108	≤ 22	3000	≥ 80	0.76
140057175	LEDDownlightRc-P-MW R200-33W-4000	CFL 2x32W	33	3630	110	≤ 22	4000	≥ 80	0.76
DALI									
140057178	LEDDownlightRc-P-MW R150-11.5W-DALI-3000	CFL 1x18W	11.5	1240	108	≤ 22	3000	≥ 80	0.45
140057179	LEDDownlightRc-P-MW R150-11.5W-DALI-4000	CFL 1x18W	11.5	1265	110	≤ 22	4000	≥ 80	0.45
140057176	LEDDownlightRc-P-MW R200-15W-DALI-3000	CFL 1x26W	15	1620	108	≤ 19	3000	≥ 80	0.76
140057177	LEDDownlightRc-P-MW R200-15W-DALI-4000	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 80	0.76
540001087000	LEDDownlightRc-P-MW R200-15W-DALI-940	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 90	0.76
140057180	LEDDownlightRc-P-MW R200-23W-DALI-3000	CFL 2x26W	23	2480	108	≤ 22	3000	≥ 80	0.76
140057181	LEDDownlightRc-P-MW R200-23W-DALI-4000	CFL 2x26W	23	2530	110	≤ 22	4000	≥ 80	0.76
540001087200	LEDDownlightRc-P-MW R200-23W-DALI-940	CFL 2x26W	23	2530	110	≤ 22	4000	≥ 90	0.76
140057182	LEDDownlightRc-P-MW R200-33W-DALI-3000	CFL 2x32W	33	3560	108	≤ 22	3000	≥ 80	0.76
140057183	LEDDownlightRc-P-MW R200-33W-DALI-4000	CFL 2x32W	33	3630	110	≤ 22	4000	≥ 80	0.76
Smart									
140063619	LEDDownlightRc-P-MW R150-11.5W-BLE-3000	CFL 1x18W	11.5	1240	108	≤ 22	3000	≥ 80	0.51
140063620	LEDDownlightRc-P-MW R150-11.5W-BLE-4000	CFL 1x18W	11.5	1265	110	≤ 22	4000	≥ 80	0.51
140063621	LEDDownlightRc-P-MW R200-15W-BLE-3000	CFL 1x26W	15	1620	108	≤ 19	3000	≥ 80	0.83
140063622	LEDDownlightRc-P-MW R200-15W-BLE-4000	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 80	0.83
540001087800	LEDDownlightRc-P-MW R200-15W-BLE-940	CFL 1x26W	15	1650	110	≤ 19	4000	≥ 90	0.83

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
Smart									
140063623	LEDDownlightRc-P-MW R200-23W-BLE-3000	CFL 2x26W	23	2480	108	≤ 22	3000	≥ 80	0.83
140063624	LEDDownlightRc-P-MW R200-23W-BLE-4000	CFL 2x26W	23	2530	110	≤ 22	4000	≥ 80	0.83
540001088000	LEDDownlightRc-P-MW R200-23W-BLE-940	CFL 2x26W	23	2530	110	≤ 22	4000	≥ 90	0.83
140063625	LEDDownlightRc-P-MW R200-33W-BLE-3000	CFL 2x32W	33	3560	108	≤ 22	3000	≥ 80	0.83
140063626	LEDDownlightRc-P-MW R200-33W-BLE-4000	CFL 2x32W	33	3630	110	≤ 22	4000	≥ 80	0.83
Smart Tunable White									
540001184900	LEDDownlightRc-P-MW R200-25W-BLE-TW	CFL 2x26W	25	2650	106	≤ 22	2700-6500	≥ 80	0.76

Available on request with 3- or 5- or 3+2 pole Wieland GST18i of Wago WINSTA connector. BLE versions are not compatible with surface module accessories.

Accessories



140060646
LEDDownlightRc-P-HZ-Adapter-150-175



140061242
LEDDownlightRc-P-R150-Surface-Module-WH



549098001300
LEDDownlightRc-P EM-kit 1h



542098030700
Junction-Box-WH

140060647
LEDDownlightRc-P-SI-E-Adapter-200-225

140061243
LEDDownlightRc-P-R200-Surface-Module-WH

549098001400
LEDDownlightRc-P EM-kit 3h

140060648
LEDDownlightRc-P-SI-E-Adapter-200-250

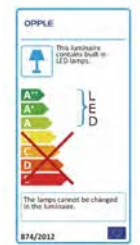
See appendix for adapter ring dimensional drawings. EM-Kit accessories cannot be used in combination with the Surface Module.

Technical Specifications	
Lifetime (L70)	60,000 h
Lifetime (L80)	40,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / DALI / BLE
Beam angle	70 °
Finishing	White RAL9003
IP front side	IP44
IP recessed part	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0 / RG1 (23W & 33W)
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties	
Material housing	Die-casted Aluminum
Optical material	Polycarbonate

Ambient Conditions	
Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



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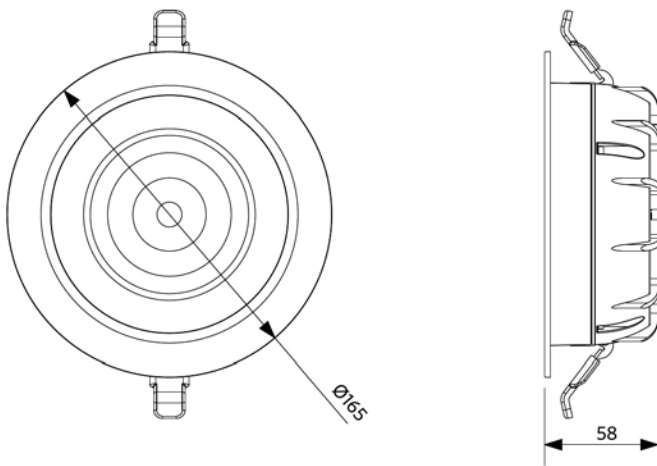
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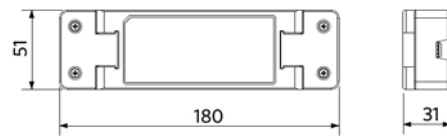
874/2012

Dimensional Drawing (mm)

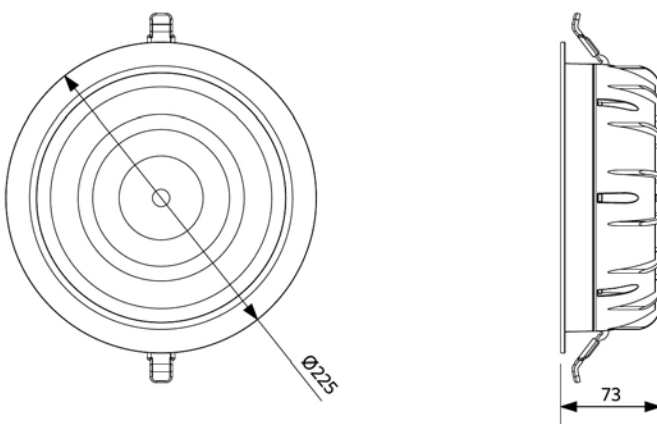
LEDDownlightRc-P-MW R150



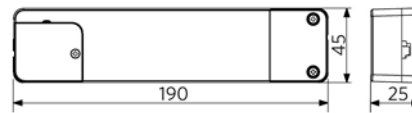
LEDDownlight Driver



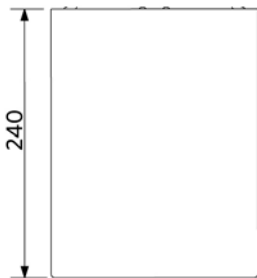
LEDDownlightRc-P-MW R200



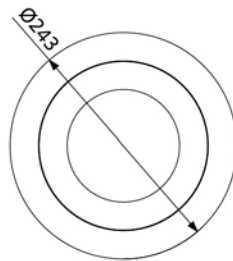
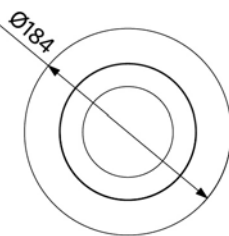
LEDDownlight Driver Tunable White



LEDDownlightRc-P-R150-Surface-Module



LEDDownlightRc-P-R200-Surface-Module



Installation Opening Drawing (mm)

LEDDownlightRc-P-MW R150
Ø150



LEDDownlightRc-P-MW R200
Ø200





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY



LED Downlight HZ^{DIM}

- Compact dimmable LED downlight
- Easy switching from CFL to LED – even when dimming is needed
- Integrated driver for easier installation
- High system efficacy up to 94 lm/W
- IP44 on light emitting side



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
Dimmable (Triac)							
140051474	LEDDownlightRc-HZ R125-7W-Dim-3000-WH	CFL 1x13W	7	600	86	3000	0.17
140051475	LEDDownlightRc-HZ R125-7W-Dim-4000-WH	CFL 1x13W	7	600	86	4000	0.17
140051476	LEDDownlightRc-HZ R150-10W-Dim-3000-WH	CFL 1x18W	10	900	90	3000	0.25
140051477	LEDDownlightRc-HZ R150-10W-Dim-4000-WH	CFL 1x18W	10	900	90	4000	0.25
140051478	LEDDownlightRc-HZ R175-13W-Dim-3000-WH	CFL 1x26W	13	1200	92	3000	0.32
140051479	LEDDownlightRc-HZ R175-13W-Dim-4000-WH	CFL 1x26W	13	1200	92	4000	0.32
140051480	LEDDownlightRc-HZ R200-16W-Dim-3000-WH	CFL 1x26W	16	1500	94	3000	0.37
140051481	LEDDownlightRc-HZ R200-16W-Dim-4000-WH	CFL 1x26W	16	1500	94	4000	0.37

Available on request with 3-pole Wieland GST18i connector. See appendix for dimmer compatibility list.

Accessories



140060646
LEDDownlightRc-P-HZ-Adapter-150-175



140060652
LEDDownlightRc-HZdim-Adapter-200-225



542098030700
Junction-Box-WH

140060650
LEDDownlightRc-HZdim-Adapter-125-150

140060649
LEDDownlightRc-HZdim-Adapter-200-250

140060651
LEDDownlightRc-HZdim-Adapter-175-200

See appendix for adapter ring dimensional drawings.

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	Triac
Beam angle	110 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
IP front side	IP44
IP recessed part	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

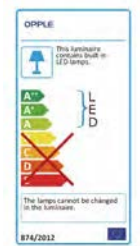
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

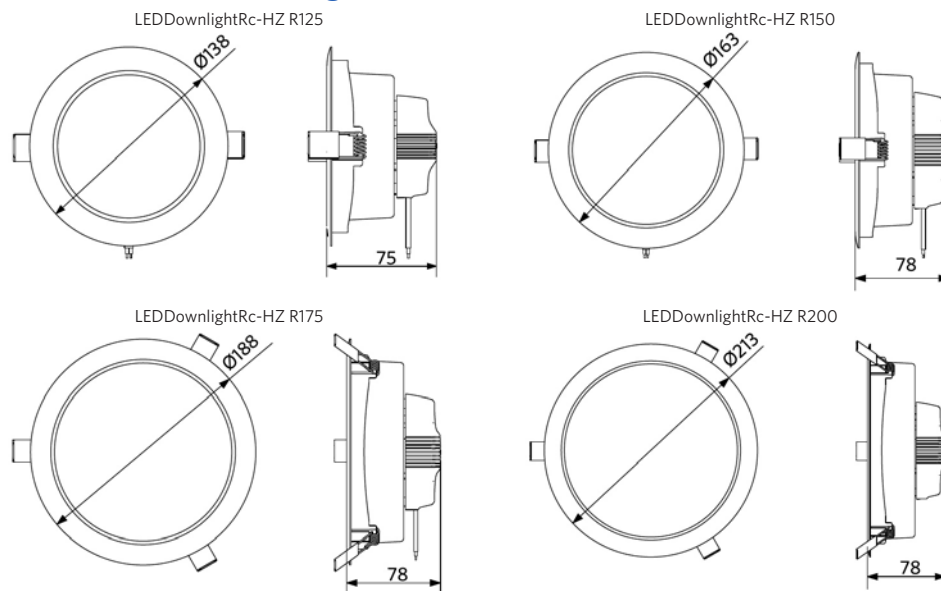
Material housing	Aluminum + Polycarbonate
Optical material	Polycarbonate

Ambient Conditions

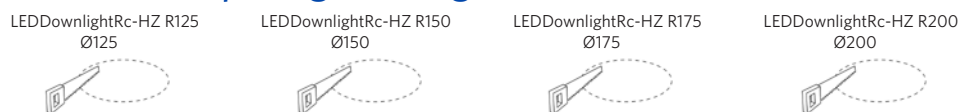
Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)



Installation Opening Drawing (mm)





LED Downlight Slim EcoMax

- Slim LED Downlight
- Very flat design, only 34mm height
- Available in both round and square version
- Integrated driver for easier installation
- Two lumen packages
- Efficacy up to 85 lm/W
- Suitable for retrofitting due to available adapter ring sizes
- IP44 on light emitting side



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
140056557	LEDDownlightRc-SI-E Rd150-12W-3000-WH	CFL 1x18W	12	1020	85	3000	0.25
140056558	LEDDownlightRc-SI-E Rd150-12W-4000-WH	CFL 1x18W	12	1020	85	4000	0.25
140056559	LEDDownlightRc-SI-E Rd200-24W-3000-WH	CFL 2x26W	24	2040	85	3000	0.41
140056560	LEDDownlightRc-SI-E Rd200-24W-4000-WH	CFL 2x26W	24	2040	85	4000	0.41
140056561	LEDDownlightRc-SI-E Sq150-12W-3000-WH	CFL 1x18W	12	1020	85	3000	0.24
140056562	LEDDownlightRc-SI-E Sq150-12W-4000-WH	CFL 1x18W	12	1020	85	4000	0.24
140056563	LEDDownlightRc-SI-E Sq200-24W-3000-WH	CFL 2x26W	24	2040	85	3000	0.55
140056564	LEDDownlightRc-SI-E Sq200-24W-4000-WH	CFL 2x26W	24	2040	85	4000	0.55

Available on request with 3- pole Wieland GST18i connector.

Accessories



140060653
LEDDownlightRc-SI-E-Adapter-150-175



140060647
LEDDownlightRc-P-SI-E-Adapter-200-225

140060648
LEDDownlightRc-P-SI-E-Adapter-200-250



542098030700
Junction-Box-WH

See appendix for adapter ring dimensional drawings.

Technical Specifications

Lifetime (L70)	40,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off
Beam angle	112 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
IP front side	IP44
IP recessed part	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

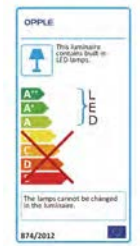
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Plastic
Optical material	Polycarbonate

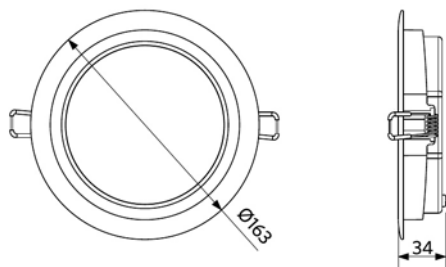
Ambient Conditions

Operating temperature	-10~+40 °C
Application temperature	+25 °C
Storage environment	-25~+50 °C

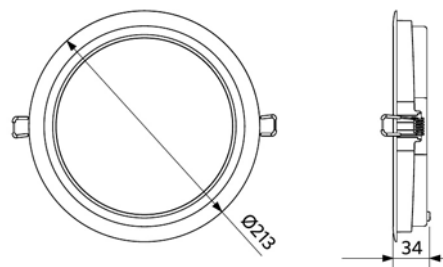


Dimensional Drawing (mm)

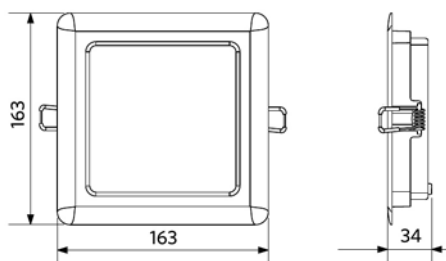
LEDDownlightRc-SI-E Rd150



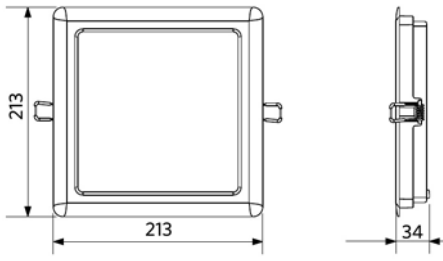
LEDDownlightRc-SI-E Rd200



LEDDownlightRc-SI-E Sq150



LEDDownlightRc-SI-E Sq200



Installation Opening Drawing (mm)

LEDDownlightRc-SI-E Rd150
Ø150



LEDDownlightRc-SI-E Rd200
Ø200



LEDDownlightRc-SI-E Sq150
150 x 150



LEDDownlightRc-SI-E Sq200
200 x 200





LED Downlight Basic

- Cost effective compact LED Downlight
- Suitable for recessed applications
- Replacement for conventional 1x18W or 2x26W CFL luminaires
- Energy saving up to 60%
- Flicker-free light with perfect uniformity
- Easy to install due to integrated LED driver



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
540001023800	LEDDownlightRc-B Rd150-12W-3000-WH	CFL 1x18W	12	930	79	3000	0.15
540001000510	LEDDownlightRc-B Rd150-12W-4000-WH	CFL 1x18W	12	960	80	4000	0.15
540001027800	LEDDownlightRc-B Rd150-12W-6500-WH	CFL 1x18W	12	930	79	6500	0.15
540001023700	LEDDownlightRc-B Rd200-22W-3000-WH	CFL 2x26W	22	1800	82	3000	0.25
540001000410	LEDDownlightRc-B Rd200-22W-4000-WH	CFL 2x26W	22	1870	85	4000	0.25
540001027900	LEDDownlightRc-B Rd200-22W-6500-WH	CFL 2x26W	22	1800	82	6500	0.25

Accessories



140060646
LEDDownlightRc-P-HZ-Adapter-150-175

140060652
LEDDownlightRc-HZdim-Adapter-200-225

140060649
LEDDownlightRc-HZdim-Adapter-200-250



542098030700
Junction-Box-WH

See appendix for adapter ring dimensional drawings.

Technical Specifications

Lifetime (L70)	30,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	110 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	0.5

Electrical Supply

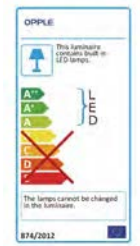
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Polycarbonate (PC)
Optical material	Polypropylene (PP)

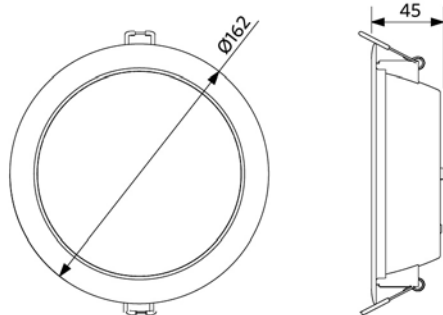
Ambient Conditions

Operating temperature	-10-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

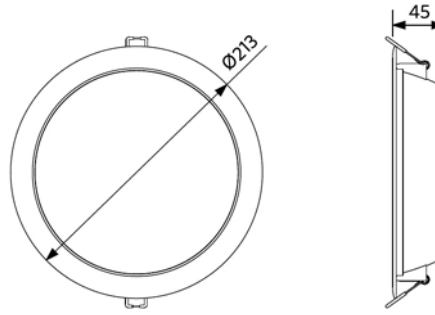


Dimensional Drawing (mm)

LEDDownlightRc-B Rd150-12W



LEDDownlightRc-B Rd200-22W



Installation Opening Drawing (mm)

LEDDownlightRc-B Rd150
Ø150



LEDDownlightRc-B Rd200
Ø200





LED Spot Performer 3C Compact

- NEW: available as wireless dimmable Smart Lighting solution (BLE)
- Compact track spot with elegant cylindrical design
- High lumen packages with high efficiency: 3150 lm and 90 lm/W
- Adapt the beam angle with exchangeable reflector
- Fitting common Global/Nordic Aluminum® 3C Tracks - and many other standard types
- Low glare due to matte black anti-glare ring
- Available in matte white (WH) and matte black (BL) versions



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
Dimmable (Triac)								
541001069000	LEDSpot3C-C-P 12W-Dim-3000-36D-WH	Halogen 100W	12	960	80	3000	36 °	0.44
541001069300	LEDSpot3C-C-P 12W-Dim-4000-36D-WH	Halogen 100W	12	1020	85	4000	36 °	0.44
541001069600	LEDSpot3C-C-P 12W-Dim-3000-36D-BL	Halogen 100W	12	960	80	3000	36 °	0.44
541001069900	LEDSpot3C-C-P 12W-Dim-4000-36D-BL	Halogen 100W	12	1020	85	4000	36 °	0.44
On-Off								
541001053900	LEDSpot3C-C-P 25W-3000-36D-WH	HID 35W	25	2125	85	3000	36 °	0.74
541001053700	LEDSpot3C-C-P 25W-4000-36D-WH	HID 35W	25	2250	90	4000	36 °	0.74
541001052700	LEDSpot3C-C-P 25W-3000-36D-BL	HID 35W	25	2125	85	3000	36 °	0.74
541001053000	LEDSpot3C-C-P 25W-4000-36D-BL	HID 35W	25	2250	90	4000	36 °	0.74
541001053500	LEDSpot3C-C-P 35W-3000-36D-WH	HID 50W	35	2975	85	3000	36 °	0.94
541001053300	LEDSpot3C-C-P 35W-4000-36D-WH	HID 50W	35	3150	90	4000	36 °	0.94
541001052800	LEDSpot3C-C-P 35W-3000-36D-BL	HID 50W	35	2975	85	3000	36 °	0.94
541001052600	LEDSpot3C-C-P 35W-4000-36D-BL	HID 50W	35	3150	90	4000	36 °	0.94
Smart								
541001094800	LEDSpot3C-C-P 37W-BLE-3000-36D-WH	HID 50W	37	2960	80	3000	36 °	0.90
541001095000	LEDSpot3C-C-P 37W-BLE-4000-36D-WH	HID 50W	37	3145	85	4000	36 °	0.90
541001095200	LEDSpot3C-C-P 37W-BLE-3000-36D-BL	HID 50W	37	2960	80	3000	36 °	0.90
541001095400	LEDSpot3C-C-P 37W-BLE-4000-36D-BL	HID 50W	37	3145	85	4000	36 °	0.90

Accessories



550098001000
LEDSpot3C-C-P R65-Reflector-24D



550098000300
LEDSpot3C-C-P R85-Reflector-24D



550098000500
LEDSpot3C-C-P R100-Reflector-24D

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off / Triac / BLE
Maximum tilt angle	85 °
Finishing	Matte white / Matte Black
Colour rendering index CRI	≥ 90
Degree of protection (IP)	IP20
Impact strength	IK02 (BLE) / IK03
Protection class	II (BLE) / I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

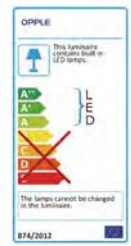
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

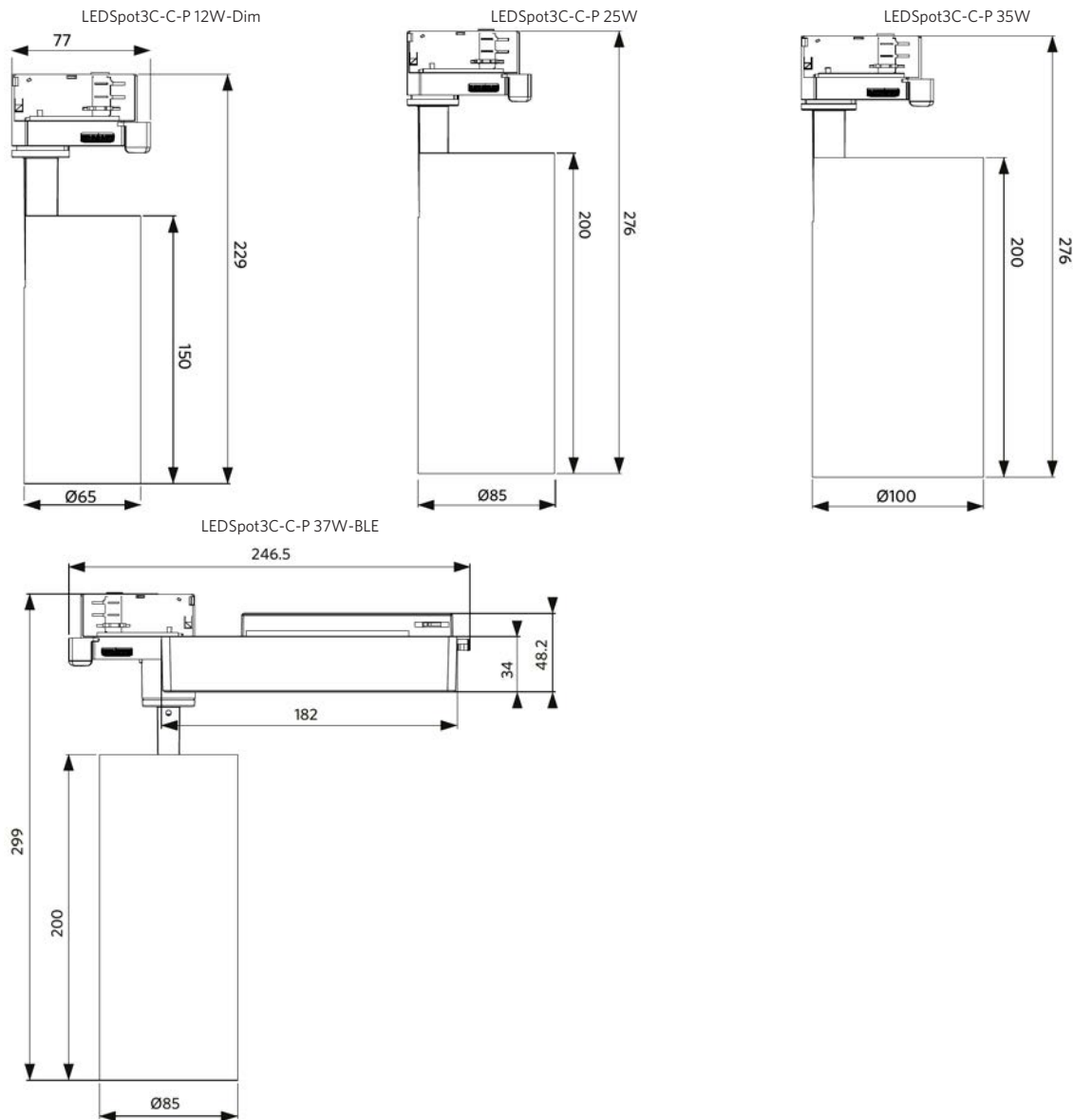
Material housing	Aluminium
Optical material	Coated Polycarbonate
Lens material	Polycarbonate

Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Spot Performer 3C

- Powerful track spot with attractive design with classic cylinder and box shapes that easily fits into shop architectures
- High lumen packages with high efficacy: up to 3,600 lm and 85 lm/W
- Fitting common Global/Nordic Aluminum® 3C Tracks - and many other standard types
- Low glare due to matte black anti-glare ring
- Available in matte white (WH) and matte black (BL) versions



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
140054439	LEDspot3C-P 30W-3000-40D-WH	HID 35W	30	2400	80	3000	40 °	1.20
140054447	LEDspot3C-P 30W-4000-40D-WH	HID 50W	30	2550	85	4000	40 °	1.20
140054443	LEDspot3C-P 30W-3000-40D-BL	HID 50W	30	2400	80	3000	40 °	1.20
140054451	LEDspot3C-P 30W-4000-40D-BL	HID 50W	30	2550	85	4000	40 °	1.20

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off
Maximum tilt angle	90 °
Finishing	Matte white, matte black anti-glare ring / Matte Black, Matte Black anti-glare ring
Colour rendering index CRI	≥ 90
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Die-casted Aluminum
Optical material	Coated Polycarbonate
Lens material	Plastic (PC)

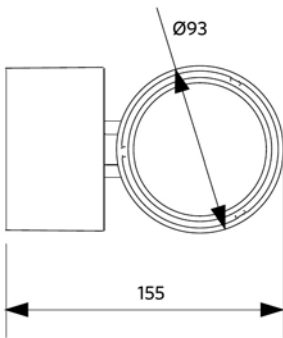
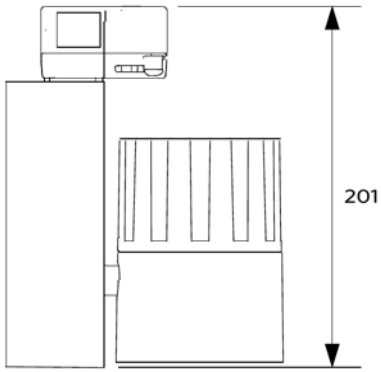
Ambient Conditions

Operating temperature	-25-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)

LEDspot3C-P 30W





LED Spot EcoMax 3C

- Compact cost effective track spot
- Fitting common Global/Nordic Aluminum® 3C Tracks - and many other standard types
- Available in matte white (WH) and matte black (BL) versions



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
541001044800	LEDspot3C-E 30W-3000-24D-WH	HID 50W	30	2550	85	3000	24 °	0.46
541001045000	LEDspot3C-E 30W-4000-24D-WH	HID 50W	30	2700	90	4000	24 °	0.46
541001044900	LEDspot3C-E 30W-3000-24D-BL	HID 50W	30	2550	85	3000	24 °	0.46
541001045100	LEDspot3C-E 30W-4000-24D-BL	HID 50W	30	2700	90	4000	24 °	0.46

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off
Maximum tilt angle	90 °
Finishing	White / Black
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

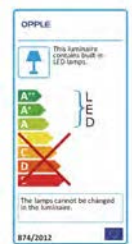
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Coated Polycarbonate
Lens material	Polycarbonate

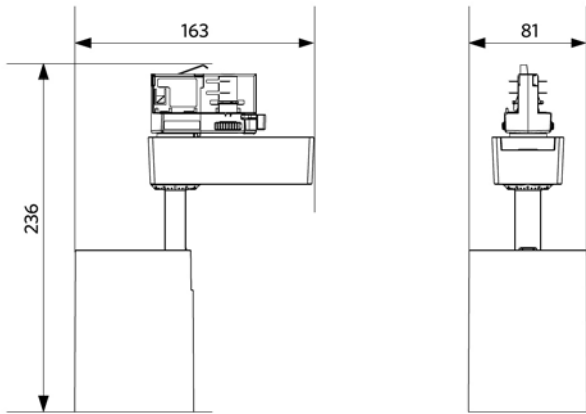
Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)

LEDspot3C-E 30W





LED Spot Performer Swing

- Powerful recessed, rotatable and tiltable spot
- Clean, compact design
- Die-cast aluminium housing
- Excellent colour rendering with CRI 90
- High efficiency up to 100 lm/W
- 35W version available as Smart Lighting (BLE) and DALI2 solution
- DALI2 driver compatible with 230V push dimming



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
541003067800	LEDSpotRS-P 20W-3000-60D-WH	HID 35W	20	1800	90	3000	60 °	0.57
541003067900	LEDSpotRS-P 20W-4000-60D-WH	HID 35W	20	2000	100	4000	60 °	0.57
541003068200	LEDSpotRS-P 35W-3000-60D-WH	HID 50W	35	3150	90	3000	60 °	1.07
541003068300	LEDSpotRS-P 35W-4000-60D-WH	HID 50W	35	3500	100	4000	60 °	1.07
DALI2								
541003101500	LEDSpotRS-P 35W-3000-60D-WH-DALI	HID 50W	35	3150	90	3000	60 °	1.07
541003101600	LEDSpotRS-P 35W-4000-60D-WH-DALI	HID 50W	35	3500	100	4000	60 °	1.07
Smart								
541003101900	LEDSpotRS-P 35W-3000-60D-WH-BLE	HID 50W	35	3150	90	3000	60 °	1.07
541003102000	LEDSpotRS-P 35W-4000-60D-WH-BLE	HID 50W	35	3500	100	4000	60 °	1.07
1-10V								
541003102300	LEDSpotRS-P 35W-3000-60D-WH-10V	HID 50W	35	3150	90	3000	60 °	1.07
541003102400	LEDSpotRS-P 35W-4000-60D-WH-10V	HID 50W	35	3500	100	4000	60 °	1.07

Accessories



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / DALI / BLE / 1-10V
Maximum tilt angle	40 °
Finishing	White
Colour rendering index CRI	≥ 90
Degree of protection (IP)	IP20
Impact strength	IK03
Protection class	II
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Coated Polycarbonate

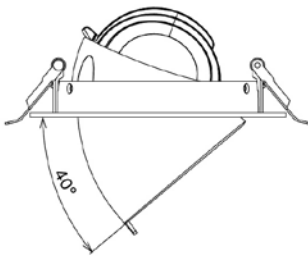
Ambient Conditions

Operating temperature	-10-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

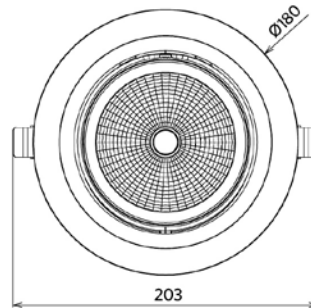
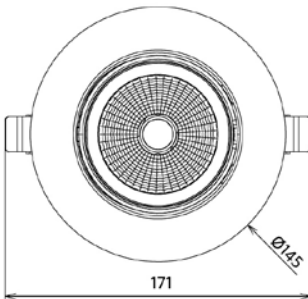
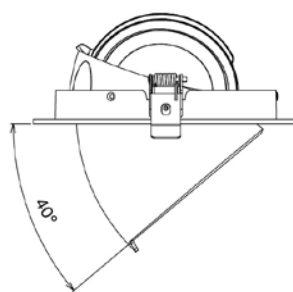


Dimensional Drawing (mm)

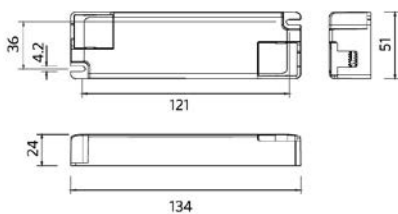
LEDSpotRS -P 20W



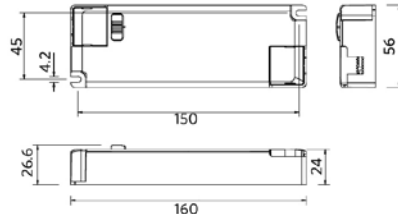
LEDSpotRS -P 35W



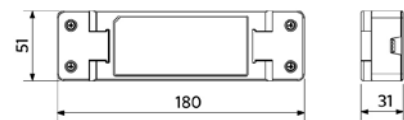
LEDSpotRS -P 20W
Driver On/Off



LEDSpotRS -P 35W
Driver On/Off



LEDSpotRS -P 35W
Driver Dim



Installation Opening Drawing (mm)

LEDSpotRS -P 20W
Ø120-130



LEDSpotRS -P 35W
Ø160-175





LED Spot Performer RA

- Powerful recessed, tiltable LED spot
- High lumen packages with high efficacy: up to 3,600 lm and 85 lm/W
- Low glare due to matte black anti-glare ring
- High cost savings due to long lifetime (no lamp replacement)



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
140054455	LEDSpotRA-P 30W-3000-40D-WH	HID 35W	30	2400	80	3000	40 °	0.90
140054459	LEDSpotRA-P 30W-4000-40D-WH	HID 35W	30	2550	85	4000	40 °	0.90
140058488	LEDSpotRA-P 45W-3000-36D-WH	HID 50W	45	3375	75	3000	36 °	1.30
140058492	LEDSpotRA-P 45W-4000-36D-WH	HID 50W	45	3600	80	4000	36 °	1.30

Accessories



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off
Maximum tilt angle	20 °
Finishing	Matte white, matte black anti-glare ring
Colour rendering index CRI	≥ 90
UGR	≤ 19
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

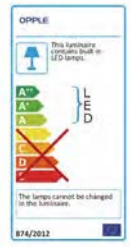
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Die-casted Aluminum
Optical material	Coated Polycarbonate
Lens material	Polycarbonate

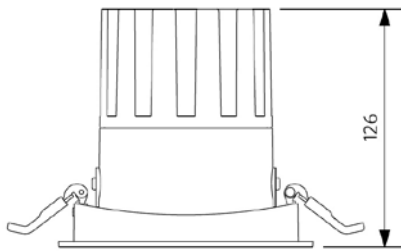
Ambient Conditions

Operating temperature	-25-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

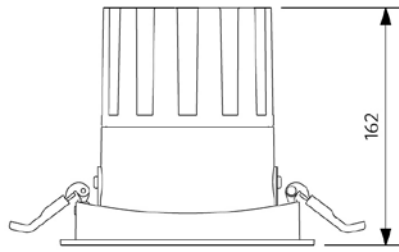


Dimensional Drawing (mm)

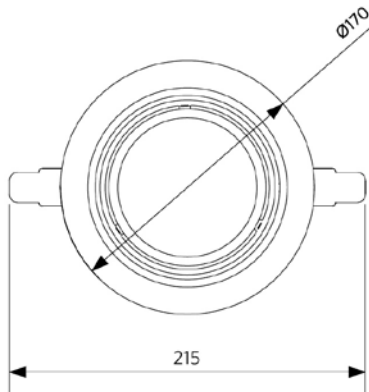
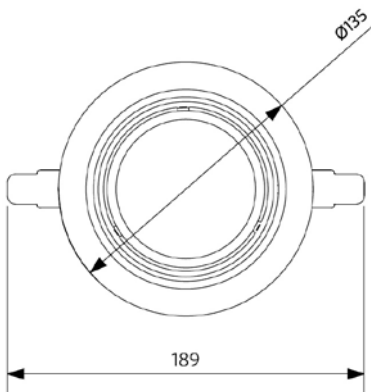
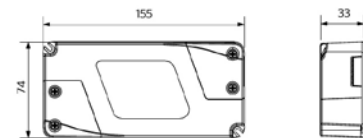
LEDSpotRA-P 30W



LEDSpotRA-P 45W



LEDSpotRA-P Driver



Installation Opening Drawing (mm)

LEDSpotRA-P 30W
Ø125



LEDSpotRA-P 45W
Ø150





LED Spot Round Adjustable HQ

- Attractive tiltable recessed spotlight with comfortable light beam
- Up to 85% lower energy consumption than halogen spotlights
- Unique light mixing technique and optics design, UGR16
- Good beam orientation adjustment, providing great flexibility
- Full IP44 solution (8W), including IP44 LED-driver
- Available in white and aluminum with light colors 2700K, 3000K and 4000K



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Degree of protection (IP)	Weight (kg/pc)
Dimmable (Triac)								
140044419	LEDSpotRA-HQ 7W-Dim-2700-40D-AL-CT	Halogen 35W	7	400	57	2700	IP20	0.19
140044080	LEDSpotRA-HQ 7W-Dim-3000-40D-AL-CT	Halogen 35W	7	420	60	3000	IP20	0.19
140044084	LEDSpotRA-HQ 7W-Dim-4000-40D-AL-CT	Halogen 35W	7	450	64	4000	IP20	0.19
140044423	LEDSpotRA-HQ 7W-Dim-2700-40D-WH-CT	Halogen 35W	7	400	57	2700	IP20	0.19
140044096	LEDSpotRA-HQ 7W-Dim-3000-40D-WH-CT	Halogen 35W	7	420	60	3000	IP20	0.19
140044100	LEDSpotRA-HQ 7W-Dim-4000-40D-WH-CT	Halogen 35W	7	450	64	4000	IP20	0.19
140061278	LEDSpotRA HQ2 8W-Dim-2700-40D-AL-IP44	Halogen 50W	8	600	75	2700	IP44	0.40
140061279	LEDSpotRA HQ2 8W-Dim-3000-40D-AL-IP44	Halogen 50W	8	600	75	3000	IP44	0.40
140061280	LEDSpotRA HQ2 8W-Dim-4000-40D-AL-IP44	Halogen 50W	8	600	75	4000	IP44	0.40
140061281	LEDSpotRA HQ2 8W-Dim-2700-40D-WH-IP44	Halogen 50W	8	600	75	2700	IP44	0.40
140061282	LEDSpotRA HQ2 8W-Dim-3000-40D-WH-IP44	Halogen 50W	8	600	75	3000	IP44	0.40
140061283	LEDSpotRA HQ2 8W-Dim-4000-40D-WH-IP44	Halogen 50W	8	600	75	4000	IP44	0.40

See appendix for dimmer compatibility list.

Accessories



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	Triac
Beam angle	40 °
Maximum tilt angle	23 °
Finishing	White RAL9003 / Brushed Aluminum RAL 9022
Colour rendering index CRI	≥ 80
UGR	≤ 16
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

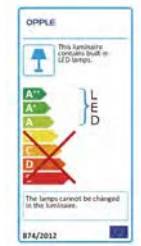
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

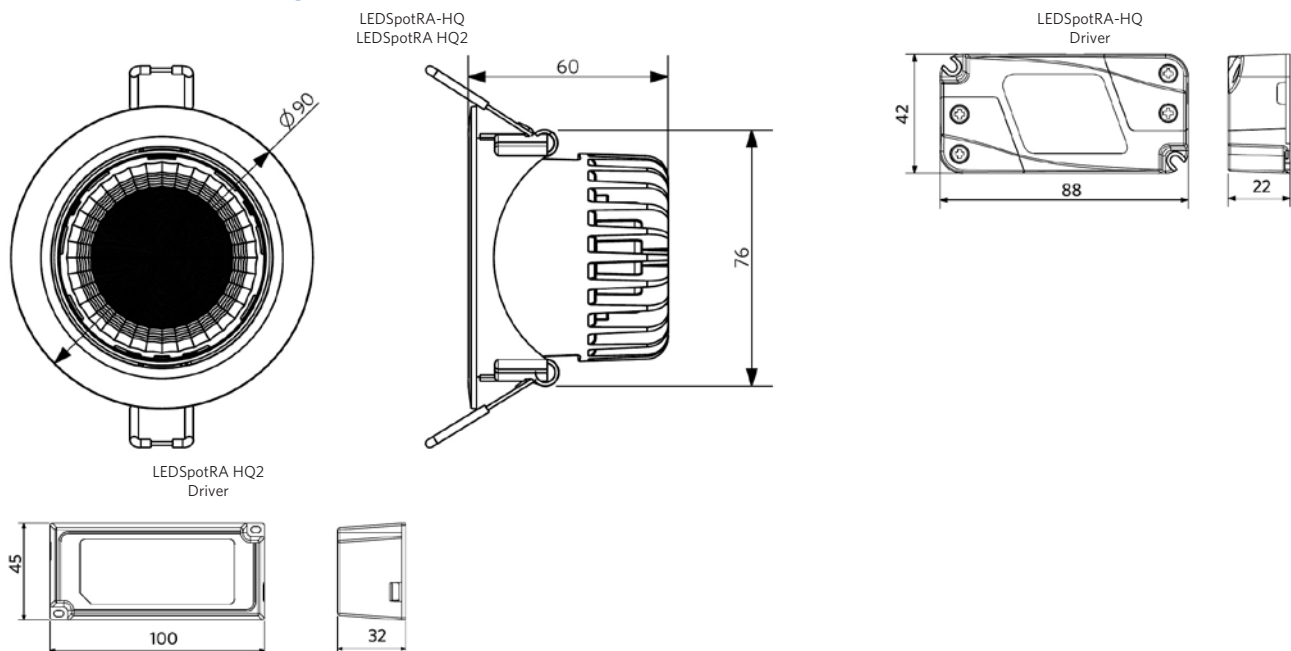
Material housing	Aluminum + Polycarbonate
Optical material	Coated Polycarbonate

Ambient Conditions

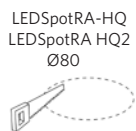
Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

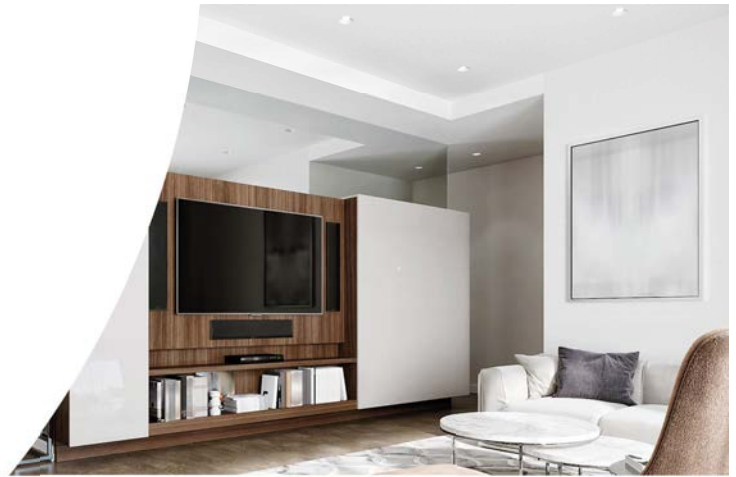


Dimensional Drawing (mm)



Installation Opening Drawing (mm)





LED Recessed Spot Ava G2

- Stylish recessed LED Spot
- Standard fully IP44, ideal for damp applications like bathrooms
- Improved efficacy up to 77lm/W
- Improved output up to 520lm
- Tilttable
- Beam angle of 30° creates a perfect accent light
- Warm white light (2700K)
- Available in matte white (MW) and brushed aluminium (BA) finishes



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
Dimmable (Triac)							
541003207100	LEDspotRA-Ava-E2 5W-Dim-2700-30D-WH	Halogen 35W	5	385	77	2700	0.28
541003207300	LEDspotRA-Ava-E2 5W-Dim-2700-30D-BA	Halogen 35W	5	385	77	2700	0.28
541003207500	LEDspotRA-Ava-E2 7W-Dim-2700-30D-WH	Halogen 50W	7	520	74	2700	0.28
541003207700	LEDspotRA-Ava-E2 7W-Dim-2700-30D-BA	Halogen 50W	7	520	74	2700	0.28

See appendix for dimmer compatibility list.

Accessories



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	Triac
Beam angle	30 °
Maximum tilt angle	25 °
Finishing	Brushed Aluminum / Matte white
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP44
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	750 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

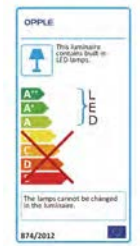
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

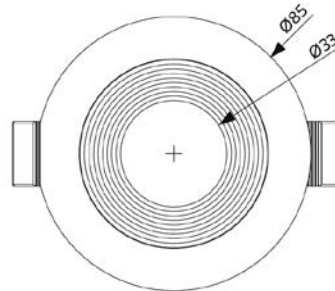
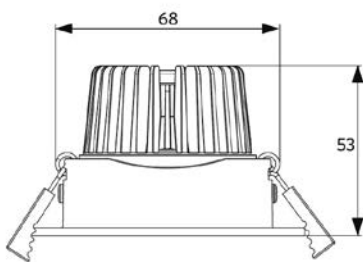
Ambient Conditions

Operating temperature	-10-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

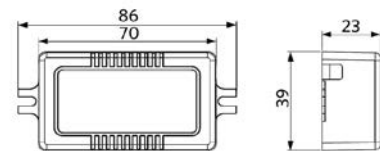


Dimensional Drawing (mm)

LEDspotRA-Ava-E2



LEDspotRA-Ava-E2
Driver



Installation Opening Drawing (mm)

LEDspotRA-Ava-E2
Ø68-76





LED Spot EcoMax

- Fixed spotlight range with universal 68 mm cut-out
- Direct replacement for majority of halogen spotlights
- Over 85% savings of energy costs compared to halogen 35W and 50W
- Available in matte white and brushed aluminium finishes
- IP44 on light emitting side
- Can be used in e.g. bathrooms and related environments



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
140054076	LEDSpotRF-E 4.5W-2700-36D-AL-CT	Halogen 35W	4.5	330	73	2700	36 °	0.08
140054077	LEDSpotRF-E 4.5W-4000-36D-AL-CT	Halogen 35W	4.5	350	78	4000	36 °	0.08
140054078	LEDSpotRF-E 4.5W-2700-36D-WH-CT	Halogen 35W	4.5	330	73	2700	36 °	0.08
140054079	LEDSpotRF-E 4.5W-4000-36D-WH-CT	Halogen 35W	4.5	350	78	4000	36 °	0.08
140055457	LEDSpotRF-E 7W-2700-36D-AL	Halogen 50W	7	510	73	2700	36 °	0.08
140055458	LEDSpotRF-E 7W-4000-36D-AL	Halogen 50W	7	530	76	4000	36 °	0.08
140055459	LEDSpotRF-E 7W-2700-36D-WH	Halogen 50W	7	510	73	2700	36 °	0.08
140055460	LEDSpotRF-E 7W-4000-36D-WH	Halogen 50W	7	530	76	4000	36 °	0.08

Accessories



542098030700
Junction-Box-WH

Technical Specifications

Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Finishing	Brushed aluminum front, matte black back / Matte white
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP44
IP recessed part	IP20
Impact strength	IK02
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

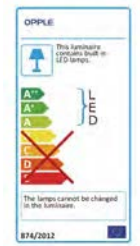
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

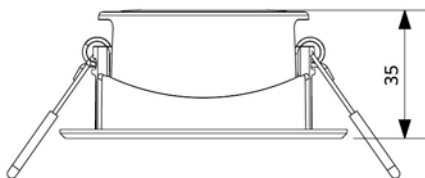
Ambient Conditions

Operating temperature	-25-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

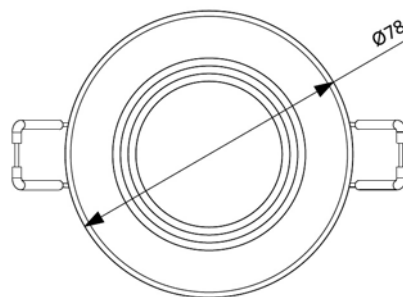
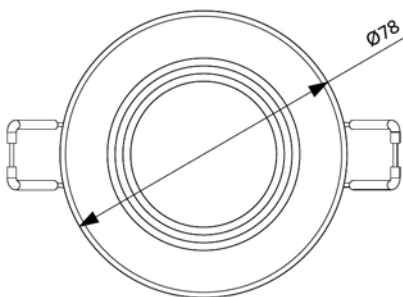
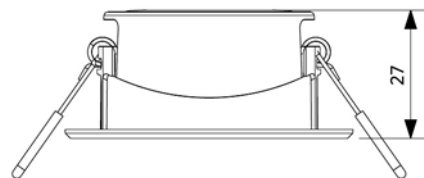


Dimensional Drawing (mm)

LEDspotRF-E 4.5W



LEDspotRF-E 7W



Installation Opening Drawing (mm)

LEDspotRF-E
Ø68





LED Wall-Mounted Performer

- Robust, waterproof luminaire with high degree impact protection
- Well integrated in architecture and comfortable light distribution
- Available with integrated motion/daylight sensor and 3-step dimming
- Energy savings up to 60% compared to compact fluorescent based fixtures
- Integrated CCT switch for color selection (3000K-4000K)
- Luminaires with sensor (MD) can control luminaires without sensor
- Connection up to 2.5mm² and including through-wiring
- Designed to be easy to install and maintain
- Also suitable for outdoor applications



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	With sensor	Weight (kg/pc)
On-Off								
543011000600	LEDWall-Mounted-P Rd300-15W	CFL 2x18W	15	1750	115	3000/4000	No	1.30
543011000400	LEDWall-Mounted-P Rd300-21W	CFL 2x26W	21	2550	120	3000/4000	No	1.32
Motion Detection, Daylight Detection								
543011000500	LEDWall-Mounted-P Rd300-16W-MD	CFL 2x18W	16	1750	110	3000/4000	Yes	1.40
543011000300	LEDWall-Mounted-P Rd300-22W-MD	CFL 2x26W	22	2550	115	3000/4000	Yes	1.42
Emergency version 1 hour, On-Off								
543011003600	LEDWall-Mounted-P Rd300-15W-EM1	CFL 2x18W	15	1750	115	3000/4000	No	1.48
543011003800	LEDWall-Mounted-P Rd300-21W-EM1	CFL 2x26W	21	2550	120	3000/4000	No	1.50
Emergency version 1 hour, Motion Detection, Daylight Detection								
543011003700	LEDWall-Mounted-P Rd300-16W-MD-EM1	CFL 2x18W	16	1750	110	3000/4000	Yes	1.58
543011003900	LEDWall-Mounted-P Rd300-22W-MD-EM1	CFL 2x26W	22	2550	115	3000/4000	Yes	1.60
Emergency version 3 hours, On-Off								
543011003200	LEDWall-Mounted-P Rd300-15W-EM3	CFL 2x18W	15	1750	115	3000/4000	No	1.78
543011003400	LEDWall-Mounted-P Rd300-21W-EM3	CFL 2x26W	21	2550	120	3000/4000	No	1.80
Emergency version 3 hours, Motion Detection, Daylight Detection								
543011003300	LEDWall-Mounted-P Rd300-16W-MD-EM3	CFL 2x18W	16	1750	110	3000/4000	Yes	1.88
543011003500	LEDWall-Mounted-P Rd300-22W-MD-EM3	CFL 2x26W	22	2550	115	3000/4000	Yes	1.90

For more technical information, please go to the appendix.

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off / MD
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK10
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Polycarbonate (PC)
Optical material	Polycarbonate

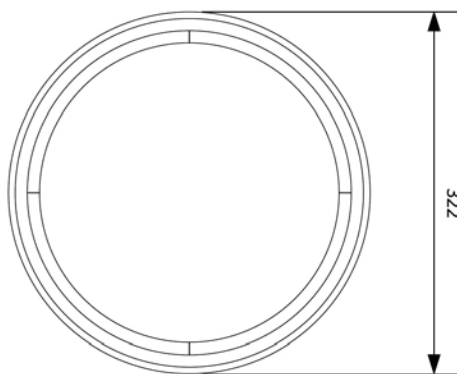
Ambient Conditions

Operating temperature	-30~+50 °C
Application temperature	+25 °C
Storage environment	-30~+60 °C



Dimensional Drawing (mm)

LEDWall-Mounted-P Rd300





LED Wall-Mounted EcoMax G2

- Stylish, compact and sturdy wall mounted fixture (IP54+IK08)
- Easy wiring with through-wiring possibility
- Integrated CCT switch for color selection (3000K-4000K)
- Available with integrated motion & daylight sensor with 2-step dimming (MD-version)
- 3hr emergency available with auto-test functionality (EM-version)
- Energy savings up to 60% compared to compact fluorescent based fixtures



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	With sensor	Weight (kg/pc)
On-Off								
522020001800	LEDWall-Mounted-E2 Rd275-14W	CFL 2x18W	14	1700	120	3000/4000	No	0.70
522020001600	LEDWall-Mounted-E2 Rd275-22W	CFL 2x26W	22	2500	115	3000/4000	No	0.70
Motion Detection, Daylight Detection								
522020001700	LEDWall-Mounted-E2 Rd275-14W-MD	CFL 2x18W	14	1700	120	3000/4000	Yes	0.76
522020001500	LEDWall-Mounted-E2 Rd275-22W-MD	CFL 2x26W	22	2500	115	3000/4000	Yes	0.76
Emergency version 3 hours, On-Off								
522020001400	LEDWall-Mounted-E2 Rd275-14W-EM3	CFL 2x18W	14	1700	120	3000/4000	No	0.80
522020001200	LEDWall-Mounted-E2 Rd275-22W-EM3	CFL 2x26W	22	2500	115	3000/4000	No	0.80
Emergency version 3 hours, Motion Detection, Daylight Detection								
522020001300	LEDWall-Mounted-E2 Rd275-14W-MD-EM3	CFL 2x18W	14	1700	120	3000/4000	Yes	0.86
522020001100	LEDWall-Mounted-E2 Rd275-22W-MD-EM3	CFL 2x26W	22	2500	115	3000/4000	Yes	0.86

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off / MD
Finishing	White RAL9016
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP54
Impact strength	IK08
Protection class	II
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

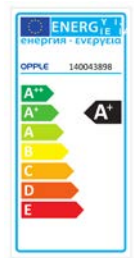
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Polypropylene (PP)
Optical material	Polypropylene (PP)

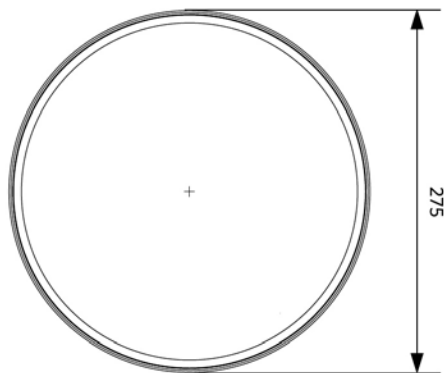
Ambient Conditions

Operating temperature	-20-+45 °C
Operating temperature EM	0-+45 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C
Storage environment EM	-20-+25 °C



Dimensional Drawing (mm)

LEDWall-Mounted-E2 Rd275





LED Ceiling Light Apollo

- Professional wall/ceiling luminaire with comfortable diffused light
- Easy installation on wall or ceiling
- LED Module Clio inside
- Bracket accessory available for easy mounting on existing installations (no new screw holes needed)
- Uniform, diffused light, creating a pleasant atmosphere
- IP44 versions also suitable for bathrooms and comparable spaces
- Energy saving up to 80% in comparison to a traditional light source



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Degree of protection (IP)	Weight (kg/pc)	
On-Off										
520020000100	LED HC300 12W 2700K Apollo III	GLS 75W	12	1000	83	2700	A+	IP20	0.43	
520020000200	LED HC300 12W 4000K Apollo III	GLS 75W	12	1100	91	4000	A+	IP20	0.43	
520021000300	LED HC350 16W 2700K IP44 Apollo III	GLS 100W	16	1300	81	2700	A+	IP44	0.59	
520021000400	LED HC350 16W 4000K IP44 Apollo III	GLS 100W	16	1400	87	4000	A+	IP44	0.59	
Dimmable (Triac)										
520021000700	LED HC350 22W DIM 2700K IP44 Apollo	GLS 100W	22	1500	68	2700	A	IP44	0.59	
520021000800	LED HC350 22W DIM 4000K IP44 Apollo	GLS 100W	22	1600	73	4000	A	IP44	0.59	

For more technical information, please go to the appendix.

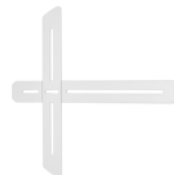
Accessories



140060553
LED Module sensor CT



520098000200
LED Apollo HC300 bracket



520098001800
LED Apollo HC350 bracket

Sensor only compatible with 12W and 16W versions. Sensor range 12m.
HC300 Bracket sold per 2. HC350 Bracket sold per 3.

Technical Specifications

Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	120 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
Impact strength	IK03
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes

Electrical Supply

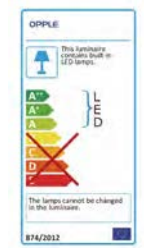
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

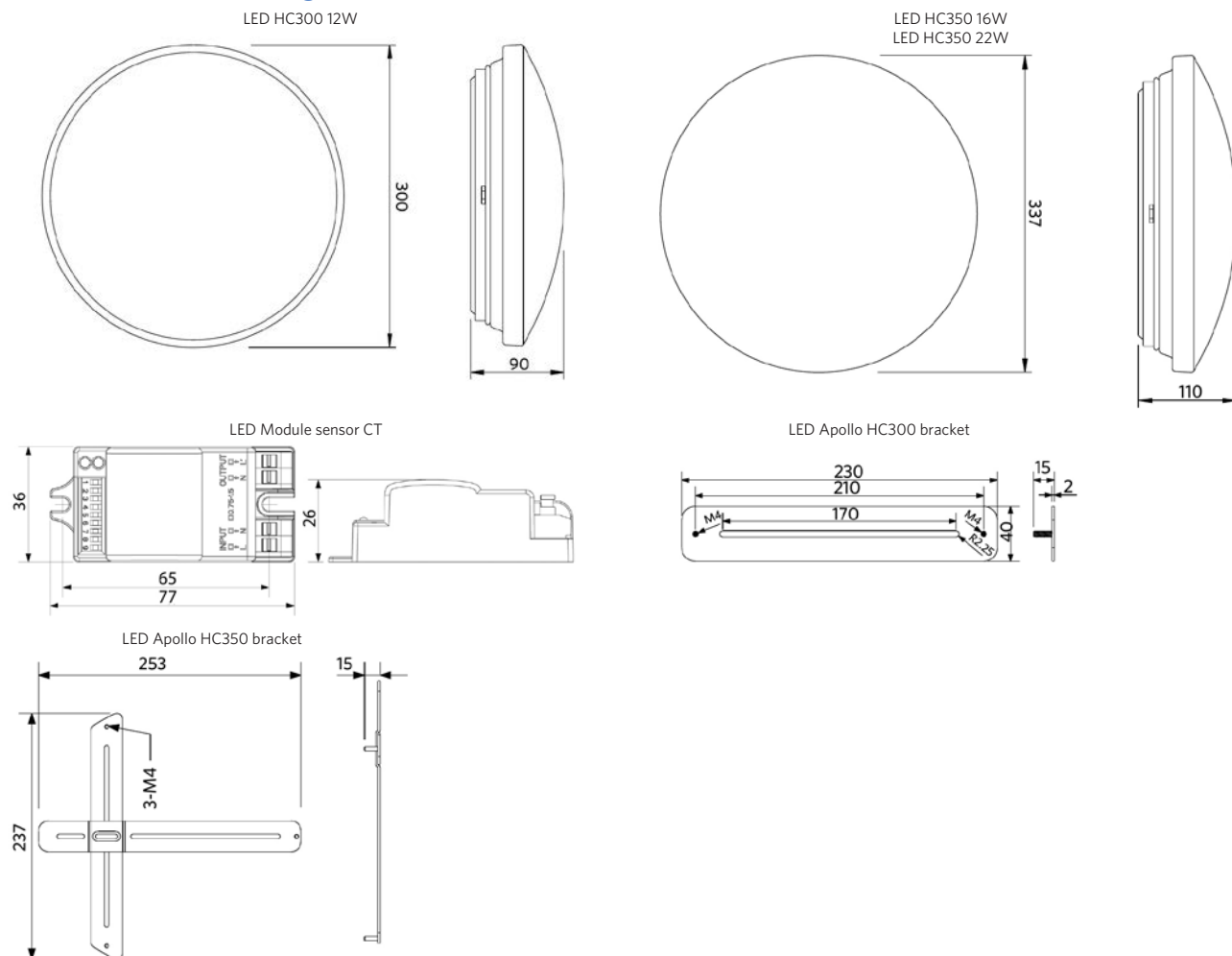
Material housing	Steel
Optical material	Polycarbonate

Ambient Conditions

Operating temperature	-20-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Ceiling Light Apollo Basic

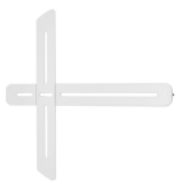
- Cost effective wall/ceiling luminaire with comfortable diffused light
- IP44, suitable for bathrooms and comparable spaces
- Available in 3 lumen packages and 2 colors
- Energy saving up to 80% in comparison to a traditional light source



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
520028005600	LED HC260 11W 2700K Apollo B	GLS 75W	11	900	82	2700	A+	0.27
520028005700	LED HC260 11W 4000K Apollo B	GLS 75W	11	1000	91	4000	A+	0.27
520021004400	LED HC350 17W 2700K Apollo B	GLS 100W	17	1400	82	2700	A+	0.56
520021004500	LED HC350 17W 4000K Apollo B	GLS 100W	17	1500	88	4000	A+	0.56
520021004600	LED HC350 23W 2700K Apollo B	GLS 100W	23	1900	83	2700	A+	0.56
520021004700	LED HC350 23W 4000K Apollo B	GLS 100W	23	2100	91	4000	A+	0.56

Accessories



520098001800
LED Apollo HC350 bracket

HC350 Bracket sold per 3.

Technical Specifications

Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	120 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP44
Impact strength	IK03
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Steel
Optical material	Polycarbonate

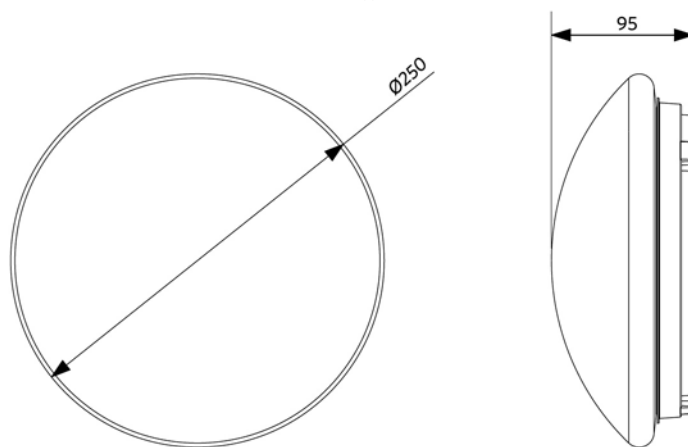
Ambient Conditions

Operating temperature	-20-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

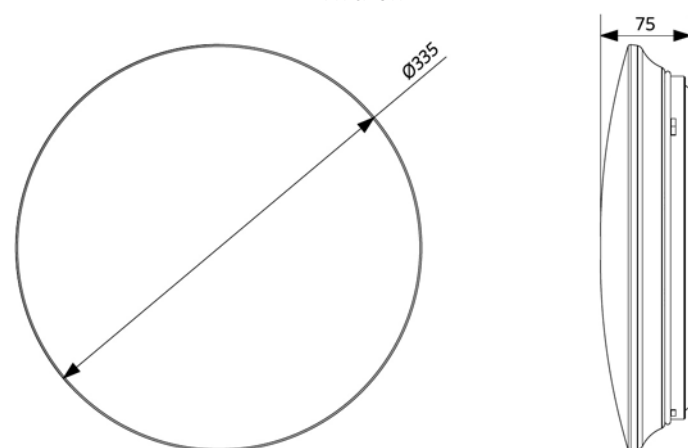


Dimensional Drawing (mm)

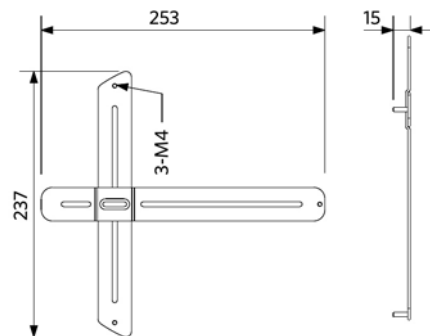
LED HC260
12W



LED HC350
17W & 23W



LED Apollo HC350 bracket





LED Porchlight EcoMax



- Easy solution for replacing and renovating existing solutions
- IP65 and high IK10 impact resistance for outdoor application
- Master Porchlight with integrated motion detector and daylight sensor (MD-versions)
- One Porchlight with sensor (MD) can control up to 10 Porchlight fixtures
- Automatic dimming to 20% light level in case of no movement detection (MD-versions)
- Detection range, hold time and daylight sensor settings can be easily customized via DIP switch
- Energy saving up to 50% compared to compact fluorescent based fixtures
- Further energy saving by the automatic dimming feature
- Also suitable for outdoor applications

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	With sensor	Weight (kg/pc)
On-Off								
140064477	LEDPorch-E Re120-5W-3000K-WH	TL 8W	5	450	90	3000	No	0.83
140064478	LEDPorch-E Re120-5W-4000K-WH	TL 8W	5	500	100	4000	No	0.83
Motion Detection, Daylight Detection								
140064479	LEDPorch-E Re120-6W-3000K-MD-WH	TL 8W	6	480	80	3000	Yes	0.87
140064480	LEDPorch-E Re120-6W-4000K-MD-WH	TL 8W	6	510	85	4000	Yes	0.87
Emergency version 1 hour, On-Off								
549004004410	LEDPorch-E Re120-5W-3000K-EM1	TL 8W	5	450	90	3000	No	1.03
549004004310	LEDPorch-E Re120-5W-4000K-EM1	TL 8W	5	500	100	4000	No	1.03
Emergency version 1 hour, Motion Detection, Daylight Detection								
549004008310	LEDPorch-E Re120-6W-3000K-MD-EM1	TL 8W	6	480	80	3000	Yes	1.07
549004008210	LEDPorch-E Re120-6W-4000K-MD-EM1	TL 8W	6	510	85	4000	Yes	1.07

For more technical information, please go to the appendix.

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off / MD
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK10
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

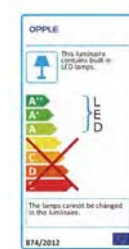
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Polycarbonate (PC)
Optical material	Polycarbonate

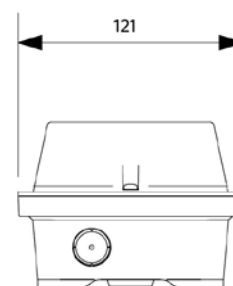
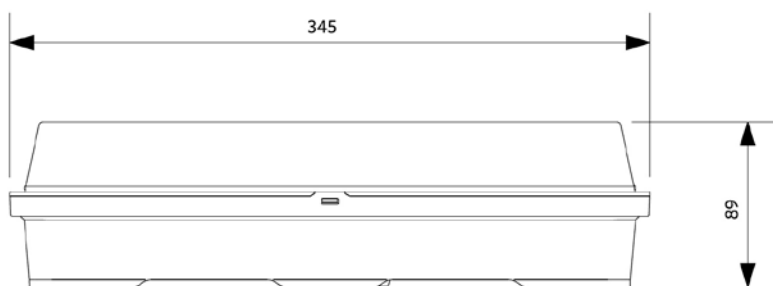
Ambient Conditions

Operating temperature	-30~+50 °C
Application temperature	+25 °C
Storage environment	-30~+60 °C



Dimensional Drawing (mm)

LEDPorch-E Re120





**NEW
VERSIONS**

- NEW: 0.6m versions available
- Easy to install LED linear solution
- Elegant but sturdy design: IP44 and IK06
- Comfortable light due to opal diffuser
- Central or side power connection
- Perfect 2x18W, 2x36W or 2x58W TL replacement



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
529001001000	LEDLinear-E CL06-20W-3000-WH	TL 2x18W	20	2100	105	3000	1.47
529001001100	LEDLinear-E CL06-20W-4000-WH	TL 2x18W	20	2300	115	4000	1.47
542005039700	LEDLinear-E CL12-40W-3000-WH	TL 2x36W	40	4100	103	3000	2.80
542005039800	LEDLinear-E CL12-40W-4000-WH	TL 2x36W	40	4500	113	4000	2.80
542005039900	LEDLinear-E CL15-53W-3000-WH	TL 2x58W	53	5700	107	3000	3.30
542005040000	LEDLinear-E CL15-53W-4000-WH	TL 2x58W	53	6200	117	4000	3.30
Emergency version 1 hour, On-Off							
549004010000	LEDLinear-E CL06-20W-3000-WH-EM1	TL 2x18W	20	2100	105	3000	1.77
549004010100	LEDLinear-E CL06-20W-4000-WH-EM1	TL 2x18W	20	2300	115	4000	1.77
549003003800	LEDLinear-E CL12-40W-3000-WH-EM1	TL 2x36W	40	4100	103	3000	3.10
549003003900	LEDLinear-E CL12-40W-4000-WH-EM1	TL 2x36W	40	4500	113	4000	3.10
549003004000	LEDLinear-E CL15-53W-3000-WH-EM1	TL 2x58W	53	5700	107	3000	3.60
549003004100	LEDLinear-E CL15-53W-4000-WH-EM1	TL 2x58W	53	6200	117	4000	3.60
Emergency version 3 hours, On-Off							
549004010200	LEDLinear-E CL06-20W-3000-WH-EM3	TL 2x18W	20	2100	105	3000	1.87
549004010300	LEDLinear-E CL06-20W-4000-WH-EM3	TL 2x18W	20	2300	115	4000	1.87
549003004200	LEDLinear-E CL12-40W-3000-WH-EM3	TL 2x36W	40	4100	103	3000	3.20
549003004300	LEDLinear-E CL12-40W-4000-WH-EM3	TL 2x36W	40	4500	113	4000	3.20
549003004400	LEDLinear-E CL15-53W-3000-WH-EM3	TL 2x58W	53	5700	107	3000	3.70
549003004500	LEDLinear-E CL15-53W-4000-WH-EM3	TL 2x58W	53	6200	117	4000	3.70

Accessories



140060553
LED Module sensor CT

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	110 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP44
Impact strength	IK06
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Power factor	≥ 0.9

Electrical Supply

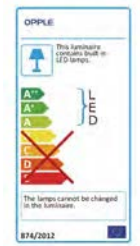
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Steel
Optical material	PMMA

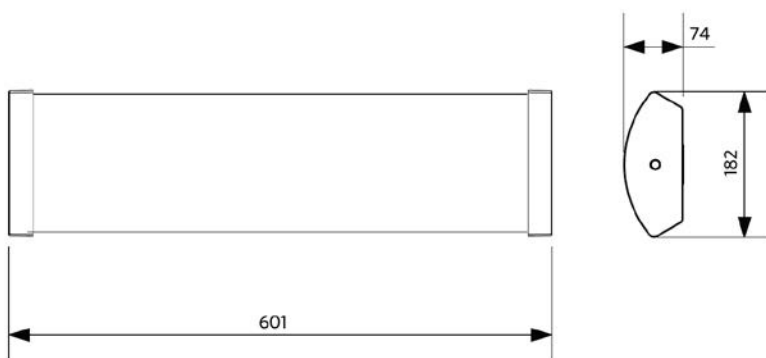
Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

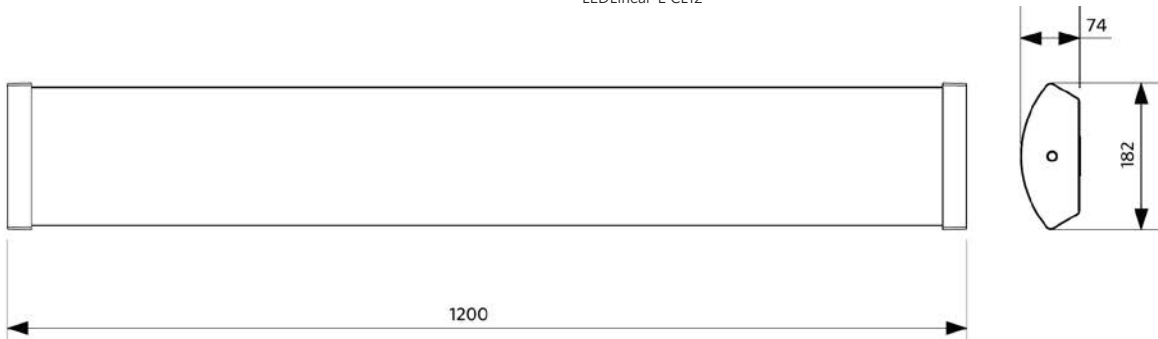


Dimensional Drawing (mm)

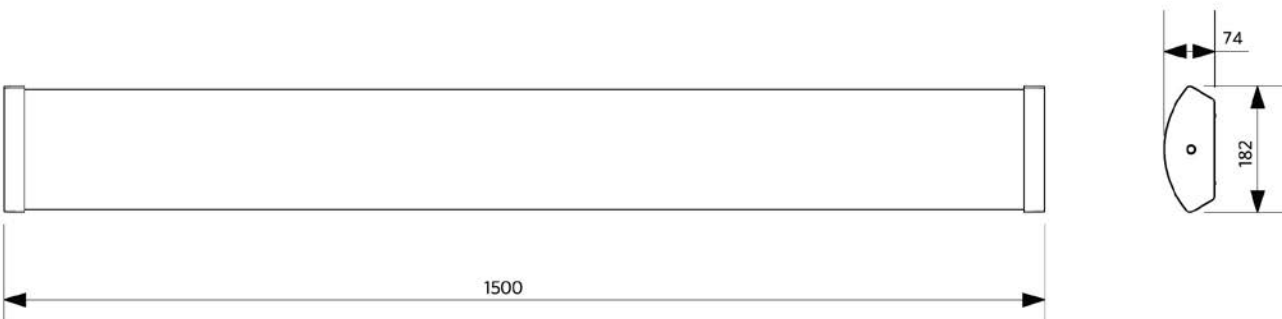
LEDLinear-E CL06



LEDLinear-E CL12



LEDLinear-E CL15





LED T8 Batten

- Linear LED batten with uniform light output
- High lumen efficiency up to 105 lm/w
- Delivered with clips for surface mounted installation
- Suspension possible with separate accessory kit
- Mechanically connect multiple luminaires via connector accessory
- Energy saving up to 55%



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
140063304	LED T8 Batten 1200mm 38W 3000K CT	TL 2x36W	38	3800	100	3000	0.80
140063305	LED T8 Batten 1200mm 38W 4000K CT	TL 2x36W	38	4000	105	4000	0.80
140063306	LED T8 Batten 1200mm 38W 6500K CT	TL 2x36W	38	4000	105	6500	0.80

Accessories



140063307
LED T8 Batten connector



140063308
LED T8 Batten suspension Kit

Technical Specifications

Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	120
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Power factor	≥ 0.9

Electrical Supply

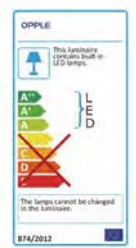
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
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Ambient Conditions

Operating temperature	-10-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)

LED T8 Batten 1200mm





LED T5 Batten EcoMax

- Linear LED batten
- Uniform, diffused light, creating a pleasant atmosphere
- Trailing edge dimmable
- Up to 50% lower energy consumption
- Battens connect up to 15 meters
- Incl. power cable, mounting and connection pieces (fixed and flexible)
- With transparent end caps



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
140043898	LED E T5 batten 600 9W 800lm 3000K CT	TL 1x18W	9	800	89	3000	A+	0.14
140043899	LED E T5 batten 600 9W 800lm 4000K CT	TL 1x18W	9	800	89	4000	A+	0.14
140043900	LED E T5 batten 1200 18W 1600lm 3000K CT	TL 1x36W	18	1600	89	3000	A+	0.24
140043901	LED E T5 batten 1200 18W 1600lm 4000K CT	TL 1x36W	18	1600	89	4000	A+	0.24
Dimmable (Triac)								
140062784	LED P T5 batten 600 9W DIM 3000K CT	TL 1x18W	9	1000	111	3000	A+	0.29
140062783	LED P T5 batten 600 9W DIM 4000K CT	TL 1x18W	9	1000	111	4000	A+	0.29
140062786	LED P T5 batten 1200 18W DIM 3000K CT	TL 1x36W	18	2000	111	3000	A+	0.41
140062785	LED P T5 batten 1200 18W DIM 4000K CT	TL 1x36W	18	2000	111	4000	A+	0.41

See appendix for dimmer compatibility list.

Technical Specifications

Lifetime (L70)	40,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	140
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
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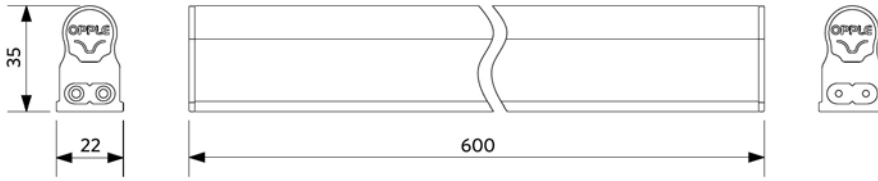
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

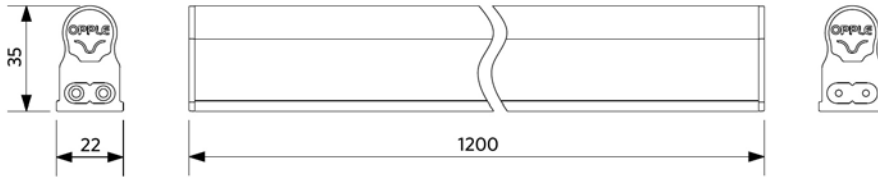


Dimensional Drawing (mm)

LED E T5 batten 600
LED P T5 batten 600



LED E T5 batten 1200
LED P T5 batten 1200



Accessories



Accessories included





LED T5 Batten S with switch

- Linear LED batten with power switch
- Uniform, diffused light, creating a pleasant atmosphere
- Available in 300, 600, 900 and 1200 mm
- Battens connect up to 15 meters
- Incl. power cable, mounting and connection pieces (fixed and flexible)
- Including integrated switch
- Energy saving up to 50%



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
140043904	LED E T5 batten 300 4.5W S 3000K BL	TL 1x9W	4.5	400	89	3000	A+	0.08
140044077	LED E T5 batten 300 4.5W S 4000K BL	TL 1x9W	4.5	400	89	4000	A+	0.08
140043903	LED E T5 batten 600 9W S 3000K BL	TL 1x18W	9	800	89	3000	A+	0.14
140044076	LED E T5 batten 600 9W S 4000K BL	TL 1x18W	9	800	89	4000	A+	0.14
140043902	LED E T5 batten 900 11W S 3000K BL	TL 1x18W	11	950	86	3000	A+	0.19
140044075	LED E T5 batten 900 11W S 4000K BL	TL 1x18W	11	950	86	4000	A+	0.19
140044293	LED E T5 batten 1200 13W S 3000K BL	TL 1x30W	13	1200	92	3000	A+	0.25
140044292	LED E T5 batten 1200 13W S 4000K BL	TL 1x30W	13	1200	92	4000	A+	0.25

Technical Specifications

Lifetime (L70)	40,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	140
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
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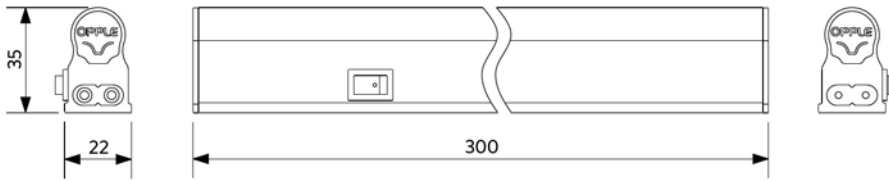
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

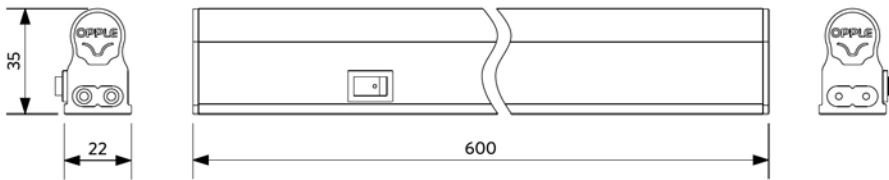


Dimensional Drawing (mm)

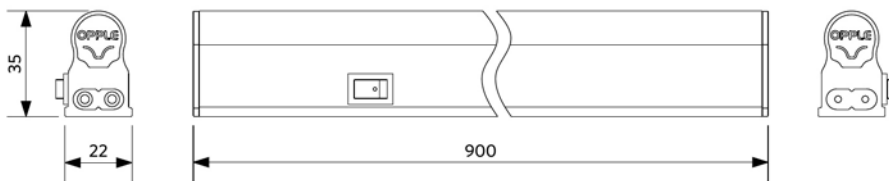
LED E T5 batten 300



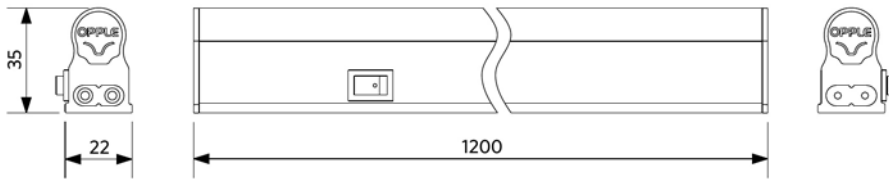
LED E T5 batten 600



LED E T5 batten 900



LED E T5 batten 1200

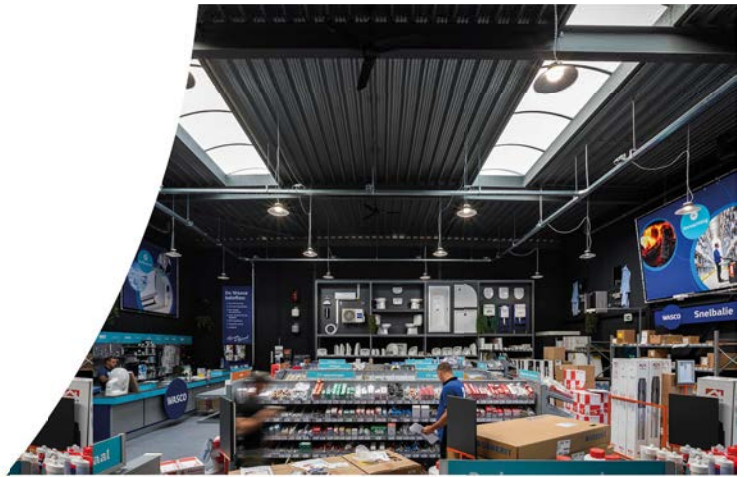


Accessories



Accessories included





LED Lowbay

- Stylish solution for medium high ceilings in retail and industry
- Multiple beam angles available



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
545002000600	LEDLowbay-E 30W-4000-60D	CFL 2x26W	30	3000	100	4000	60 °	0.54
545002000500	LEDLowbay-E 30W-4000-120D	CFL 2x26W	30	3000	100	4000	120 °	0.65
545002000400	LEDLowbay-E 50W-4000-60D	HID 70W	50	5000	100	4000	60 °	1.03
545002000300	LEDLowbay-E 50W-4000-120D	HID 70W	50	5000	100	4000	120 °	1.14
545002000200	LEDLowbay-E 80W-4000-60D	HID 100W	80	7200	90	4000	60 °	1.70
545002000100	LEDLowbay-E 80W-4000-90D	HID 100W	80	8000	100	4000	90 °	1.70

Accessories



545098004100
Lowbay-PC-Reflector-80W

Technical Specifications

Lifetime (L70)	60,000 h
Lifetime (L80)	40,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Finishing	Silver
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK03
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

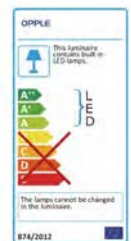
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

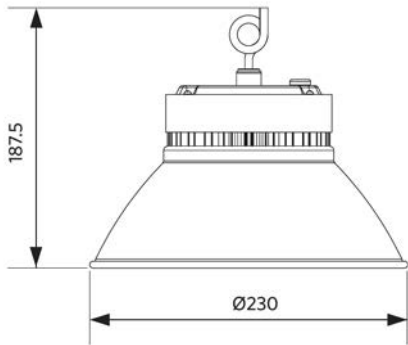
Ambient Conditions

Operating temperature	-20~+45 °C
Application temperature	+25 °C
Storage environment	-30~+50 °C

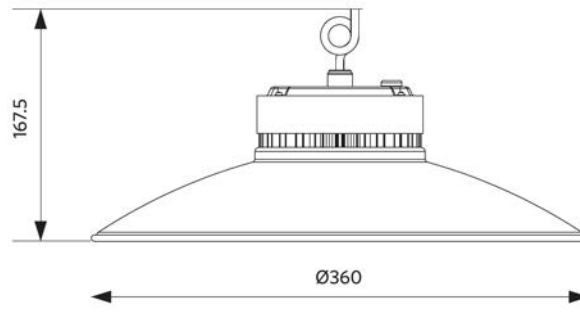


Dimensional Drawing (mm)

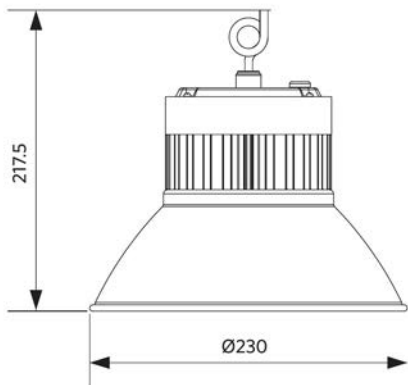
LEDLowbay-E 30W-4000-60D



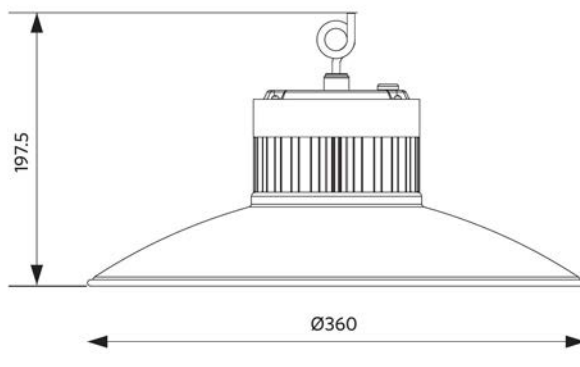
LEDLowbay-E 30W-4000-120D



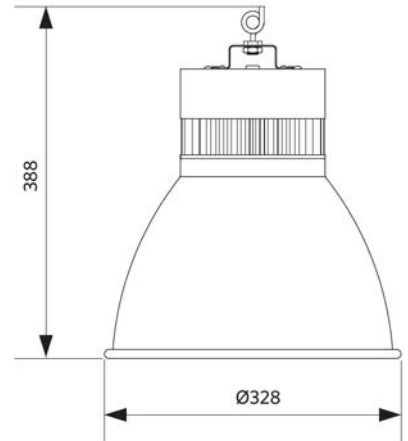
LEDLowbay-E 50W-4000-60D



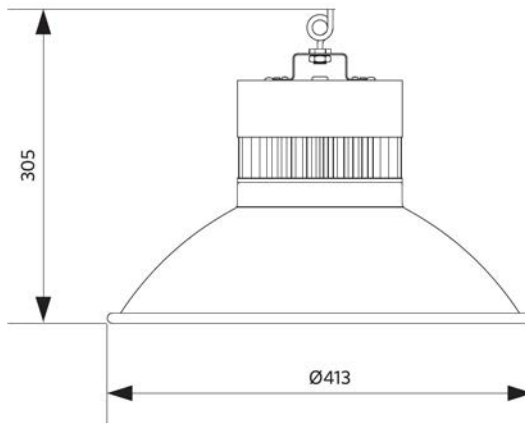
LEDLowbay-E 50W-4000-120D



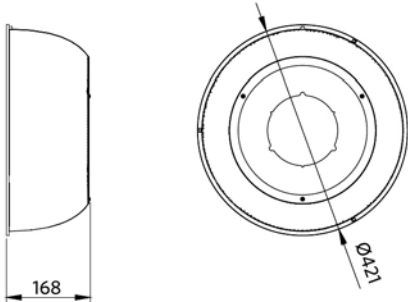
LEDLowbay-E 80W-4000-60D



LEDLowbay-E 80W-4000-90D



Lowbay-PC-Reflector-80W





LED Highbay Performer G4

- High quality LED Highbay solution with advanced ultra slim design
- Available as Smart Lighting solution (BLE) and with integrated Motion Sensor (MD)
- Available in DALI2 to ensure high compatibility
- Equipped with IP68 connector
- DALI2 driver compatible with 230V push dimming



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
545001002600	LEDHighbay-P4 80W-4000-95D	HID 250W	80	10400	130	4000	95 °	2.10
545001002500	LEDHighbay-P4 80W-4000-50D	HID 250W	80	10400	130	4000	50 °	2.10
545001002700	LEDHighbay-P4 80W-4000-50x95D	HID 250W	80	10400	130	4000	50 ° x 95 °	2.10
545001014700	LEDHighbay-P4 80W-5700-95D	HID 250W	80	10400	130	5700	95 °	2.10
545001014600	LEDHighbay-P4 80W-5700-50D	HID 250W	80	10400	130	5700	50 °	2.10
545001014800	LEDHighbay-P4 80W-5700-50x95D	HID 250W	80	10400	130	5700	50 ° x 95 °	2.10
545001003200	LEDHighbay-P4 115W-4000-95D	HID 400W	115	15000	130	4000	95 °	2.10
545001003100	LEDHighbay-P4 115W-4000-50D	HID 400W	115	15000	130	4000	50 °	2.10
545001003300	LEDHighbay-P4 115W-4000-50x95D	HID 400W	115	15000	130	4000	50 ° x 95 °	2.10
545001015000	LEDHighbay-P4 115W-5700-95D	HID 400W	115	15000	130	5700	95 °	2.10
545001014900	LEDHighbay-P4 115W-5700-50D	HID 400W	115	15000	130	5700	50 °	2.10
545001015100	LEDHighbay-P4 115W-5700-50x95D	HID 400W	115	15000	130	5700	50 ° x 95 °	2.10
545001001200	LEDHighbay-P4 155W-4000-100D	HID 400W	155	20000	130	4000	100 °	3.10
545001001100	LEDHighbay-P4 155W-4000-60D	HID 400W	155	20000	130	4000	60 °	3.10
545001003700	LEDHighbay-P4 155W-4000-60x100D	HID 400W	155	20000	130	4000	60 ° x 100 °	3.10
545001012400	LEDHighbay-P4 155W-5700-100D	HID 400W	155	20000	130	5700	100 °	3.10
545001015200	LEDHighbay-P4 155W-5700-60D	HID 400W	155	20000	130	5700	60 °	3.10
545001015300	LEDHighbay-P4 155W-5700-60x100D	HID 400W	155	20000	130	5700	60 ° x 100 °	3.10
545001000900	LEDHighbay-P4 230W-4000-100D	HID 600W	230	30000	130	4000	100 °	3.10
545001001000	LEDHighbay-P4 230W-4000-60D	HID 600W	230	30000	130	4000	60 °	3.10
545001003900	LEDHighbay-P4 230W-4000-60x100D	HID 600W	230	30000	130	4000	60 ° x 100 °	3.10
545001012300	LEDHighbay-P4 230W-5700-100D	HID 600W	230	30000	130	5700	100 °	3.10
545001015400	LEDHighbay-P4 230W-5700-60D	HID 600W	230	30000	130	5700	60 °	3.10
545001015500	LEDHighbay-P4 230W-5700-60x100D	HID 600W	230	30000	130	5700	60 ° x 100 °	3.10
DALI2								
545001002900	LEDHighbay-P4 80W-DALI-4000-95D	HID 250W	80	10400	130	4000	95 °	2.10
545001002800	LEDHighbay-P4 80W-DALI-4000-50D	HID 250W	80	10400	130	4000	50 °	2.10
545001003000	LEDHighbay-P4 80W-DALI-4000-50x95D	HID 250W	80	10400	130	4000	50 ° x 95 °	2.10
545001015700	LEDHighbay-P4 80W-DALI-5700-95D	HID 250W	80	10400	130	5700	95 °	2.10
545001015600	LEDHighbay-P4 80W-DALI-5700-50D	HID 250W	80	10400	130	5700	50 °	2.10
545001015800	LEDHighbay-P4 80W-DALI-5700-50x95D	HID 250W	80	10400	130	5700	50 ° x 95 °	2.10

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
DALI2								
545001003500	LEDHighbay-P4 115W-DALI-4000-95D	HID 400W	115	15000	130	4000	95 °	2.10
545001003400	LEDHighbay-P4 115W-DALI-4000-50D	HID 400W	115	15000	130	4000	50 °	2.10
545001003600	LEDHighbay-P4 115W-DALI-4000-50x95D	HID 400W	115	15000	130	4000	50 ° x 95 °	2.10
545001016000	LEDHighbay-P4 115W-DALI-5700-95D	HID 400W	115	15000	130	5700	95 °	2.10
545001015900	LEDHighbay-P4 115W-DALI-5700-50D	HID 400W	115	15000	130	5700	50 °	2.10
545001016100	LEDHighbay-P4 115W-DALI-5700-50x95D	HID 400W	115	15000	130	5700	50 ° x 95 °	2.10
545001001400	LEDHighbay-P4 155W-DALI-4000-100D	HID 400W	155	20000	130	4000	100 °	3.10
545001001300	LEDHighbay-P4 155W-DALI-4000-60D	HID 400W	155	20000	130	4000	60 °	3.10
545001003800	LEDHighbay-P4 155W-DALI-4000-60x100D	HID 400W	155	20000	130	4000	60 ° x 100 °	3.10
545001016300	LEDHighbay-P4 155W-DALI-5700-100D	HID 400W	155	20000	130	5700	100 °	3.10
545001016200	LEDHighbay-P4 155W-DALI-5700-60D	HID 400W	155	20000	130	5700	60 °	3.10
545001016400	LEDHighbay-P4 155W-DALI-5700-60x100D	HID 400W	155	20000	130	5700	60 ° x 100 °	3.10
545001001600	LEDHighbay-P4 230W-DALI-4000-100D	HID 600W	230	30000	130	4000	100 °	3.10
545001001500	LEDHighbay-P4 230W-DALI-4000-60D	HID 600W	230	30000	130	4000	60 °	3.10
545001004000	LEDHighbay-P4 230W-DALI-4000-60x100D	HID 600W	230	30000	130	4000	60 ° x 100 °	3.10
545001016600	LEDHighbay-P4 230W-DALI-5700-100D	HID 600W	230	30000	130	5700	100 °	3.10
545001016500	LEDHighbay-P4 230W-DALI-5700-60D	HID 600W	230	30000	130	5700	60 °	3.10
545001016700	LEDHighbay-P4 230W-DALI-5700-60x100D	HID 600W	230	30000	130	5700	60 ° x 100 °	3.10
Smart								
545001009800	LEDHighbay-P4 80W-4000-W-BLE	HID 250W	80	10400	130	4000	95 °	2.10
545001009700	LEDHighbay-P4 80W-4000-N-BLE	HID 250W	80	10400	130	4000	50 °	2.10
545001009600	LEDHighbay-P4 80W-4000-AS-BLE	HID 250W	80	10400	130	4000	50 ° x 95 °	2.10
545001024400	LEDHighbay-P4 80W-5700-W-BLE	HID 250W	80	10400	130	5700	95 °	2.10
545001024300	LEDHighbay-P4 80W-5700-N-BLE	HID 250W	80	10400	130	5700	50 °	2.10
545001024500	LEDHighbay-P4 80W-5700-AS-BLE	HID 250W	80	10400	130	5700	50 ° x 95 °	2.10
545001009400	LEDHighbay-P4 115W-4000-W-BLE	HID 400W	115	15000	130	4000	95 °	2.10
545001009500	LEDHighbay-P4 115W-4000-N-BLE	HID 400W	115	15000	130	4000	50 °	2.10
545001009300	LEDHighbay-P4 115W-4000-AS-BLE	HID 400W	115	15000	130	4000	50 ° x 95 °	2.10
545001024700	LEDHighbay-P4 115W-5700-W-BLE	HID 400W	115	15000	130	5700	95 °	2.10
545001024600	LEDHighbay-P4 115W-5700-N-BLE	HID 400W	115	15000	130	5700	50 °	2.10
545001024800	LEDHighbay-P4 115W-5700-AS-BLE	HID 400W	115	15000	130	5700	50 ° x 95 °	2.10
545001009100	LEDHighbay-P4 155W-4000-W-BLE	HID 400W	155	20000	130	4000	100 °	3.10
545001009200	LEDHighbay-P4 155W-4000-N-BLE	HID 400W	155	20000	130	4000	60 °	3.10
545001009000	LEDHighbay-P4 155W-4000-AS-BLE	HID 400W	155	20000	130	4000	60 ° x 100 °	3.10
545001025000	LEDHighbay-P4 155W-5700-W-BLE	HID 400W	155	20000	130	5700	100 °	3.10
545001024900	LEDHighbay-P4 155W-5700-N-BLE	HID 400W	155	20000	130	5700	60 °	3.10
545001025100	LEDHighbay-P4 155W-5700-AS-BLE	HID 400W	155	20000	130	5700	60 ° x 100 °	3.10
545001008800	LEDHighbay-P4 230W-4000-W-BLE	HID 600W	230	30000	130	4000	100 °	3.10
545001008900	LEDHighbay-P4 230W-4000-N-BLE	HID 600W	230	30000	130	4000	60 °	3.10
545001008700	LEDHighbay-P4 230W-4000-AS-BLE	HID 600W	230	30000	130	4000	60 ° x 100 °	3.10
545001025300	LEDHighbay-P4 230W-5700-W-BLE	HID 600W	230	30000	130	5700	100 °	3.10
545001025200	LEDHighbay-P4 230W-5700-N-BLE	HID 600W	230	30000	130	5700	60 °	3.10
545001025400	LEDHighbay-P4 230W-5700-AS-BLE	HID 600W	230	30000	130	5700	60 ° x 100 °	3.10
Motion Detection, Daylight Detection								
545001010300	LEDHighbay-P4 80W-4000-W-MD	HID 250W	80	10400	130	4000	95 °	2.30
545001010100	LEDHighbay-P4 80W-4000-N-MD	HID 250W	80	10400	130	4000	50 °	2.30
545001010400	LEDHighbay-P4 80W-4000-AS-MD	HID 250W	80	10400	130	4000	50 ° x 95 °	2.30
545001010200	LEDHighbay-P4 115W-4000-W-MD	HID 400W	115	15000	130	4000	95 °	2.30
545001010500	LEDHighbay-P4 115W-4000-N-MD	HID 400W	115	15000	130	4000	50 °	2.30
545001010600	LEDHighbay-P4 115W-4000-AS-MD	HID 400W	115	15000	130	4000	50 ° x 95 °	2.30
545001011500	LEDHighbay-P4 155W-4000-W-MD	HID 400W	155	20000	130	4000	100 °	3.30
545001010700	LEDHighbay-P4 155W-4000-N-MD	HID 400W	155	20000	130	4000	60 °	3.30
545001010800	LEDHighbay-P4 155W-4000-AS-MD	HID 400W	155	20000	130	4000	60 ° x 100 °	3.30
545001011000	LEDHighbay-P4 230W-4000-W-MD	HID 600W	230	30000	130	4000	100 °	3.30
545001010900	LEDHighbay-P4 230W-4000-N-MD	HID 600W	230	30000	130	4000	60 °	3.30
545001011100	LEDHighbay-P4 230W-4000-AS-MD	HID 600W	230	30000	130	4000	60 ° x 100 °	3.30

DALI2 versions are compatible with central emergency lighting according to EN 50172. For more technical information, please go to the appendix.



Accessories



545098000500
LEDHighbay-P4 Bracket-D330

545098000600
LEDHighbay-P4 Bracket-D420



545098003500
LEDHighbay-P4 Reflector-D330

545098003600
LEDHighbay-P4 Reflector-D420



543098021900
LEDFixture-IP68-Connector-Kit-3



543098022000
LEDFixture-IP68-Connector-Kit-5



543098024500
LEDHighbay-P4-Remote Controller



545098003200
LEDHighbay-Pole and Adapter

545098003900
LEDHighbay-Pole

Highbay Pole and Adapter (545098003200) is only compatible with 80W and 115W versions. Highbay Pole (545098003900) is only compatible with 155W and 230W versions.

Remote Controller can only be used in combination with Motion Detection (MD) versions. Remote Controller sold excluding 2x AAA batteries. For more technical information (Remote Controller), please go to the appendix.

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off / DALI / BLE / MD
Finishing	Grey Pantone 417U
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	4 kV

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
UV resistant	Yes
Optical material	Polycarbonate
Cover material	Polycarbonate

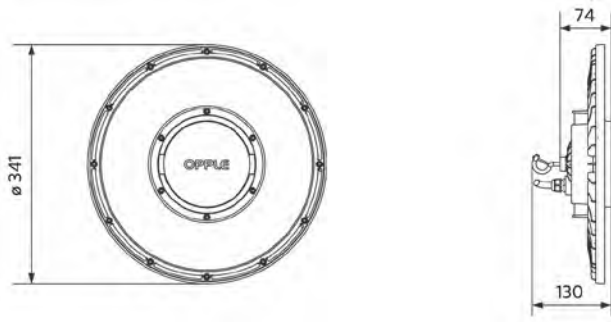
Ambient Conditions

Operating temperature	-30-+50 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

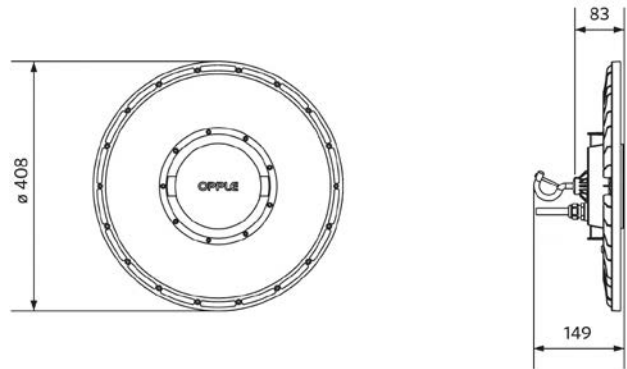


Dimensional Drawing (mm)

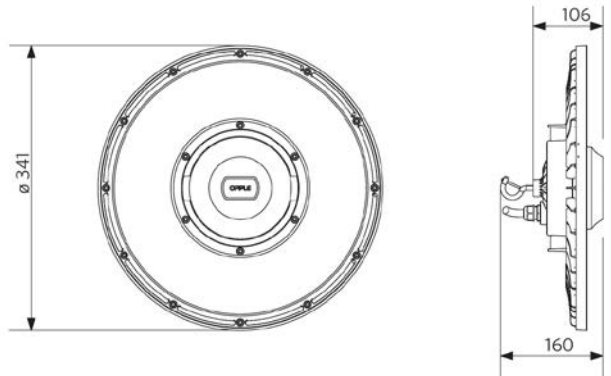
LEDHighbay-P4
80W & 115W



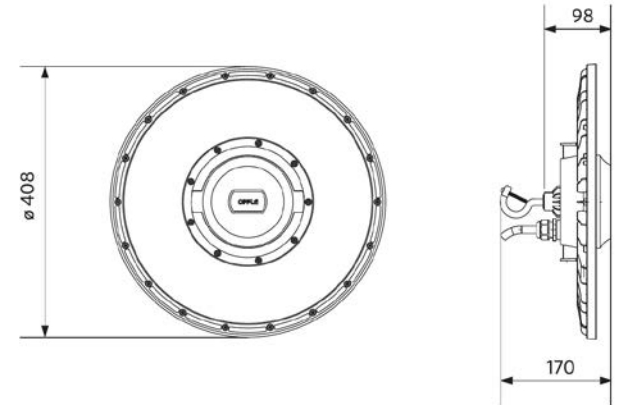
LEDHighbay-P4
155W & 230W



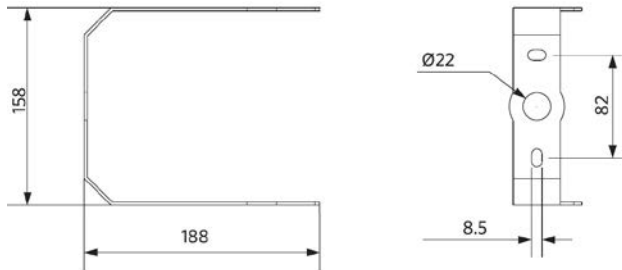
LEDHighbay-P4
80W & 115W Motion Detection



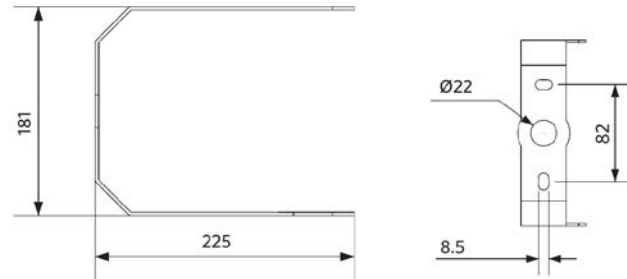
LEDHighbay-P4
155W & 230W Motion Detection



LEDHighbay-P4 Bracket-D330



LEDHighbay-P4 Bracket-D420





LED Highbay EcoMax

- Slim cost effective solution with integrated driver
- High efficacy up to 110 lm/W
- Up to 50% energy saving compared to HID solutions
- IP68 connector available as accessory



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
545001014500	LEDHighbay-E 95W-4000-100D	HID 250W	95	10450	110	4000	100 °	1.50
545001014200	LEDHighbay-E 95W-5700-100D	HID 250W	95	10450	110	5700	100 °	1.50
545001014400	LEDHighbay-E 140W-4000-100D	HID 400W	140	15400	110	4000	100 °	1.50
545001014100	LEDHighbay-E 140W-5700-100D	HID 400W	140	15400	110	5700	100 °	1.50
545001014300	LEDHighbay-E 185W-4000-100D	HID 400W	185	20400	110	4000	100 °	2.00
545001014000	LEDHighbay-E 185W-5700-100D	HID 400W	185	20400	110	5700	100 °	2.00

Accessories



543098021900
LEDFixture-IP68-Connector-Kit-3



545098003900
LEDHighbay-Pole

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Finishing	Grey Pantone 417U
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	2 kV

Electrical Supply

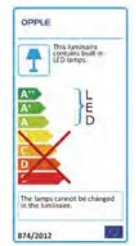
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Cover material	Polycarbonate

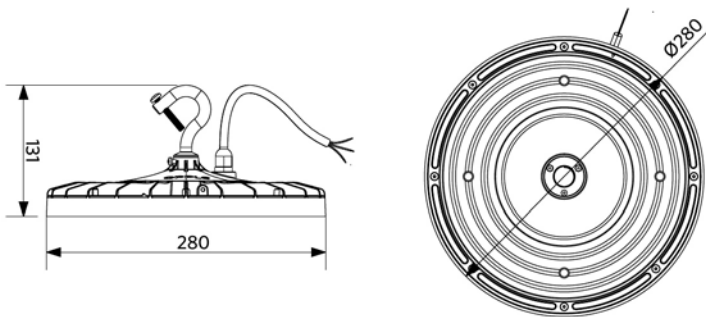
Ambient Conditions

Operating temperature	-25-+45 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C

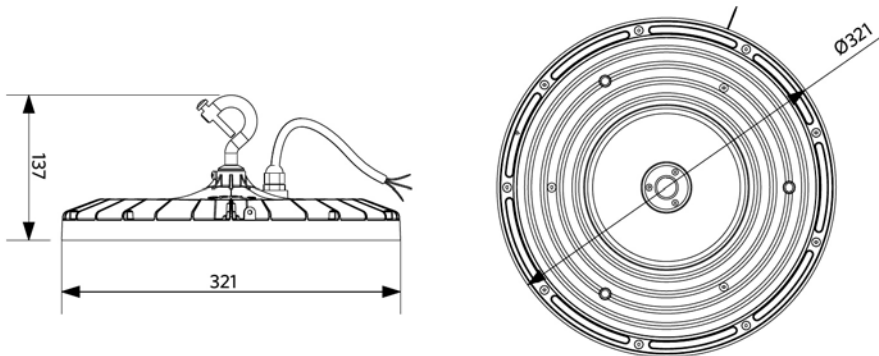


Dimensional Drawing (mm)

LEDHighbay-E
95W & 140W



LEDHighbay-E
185W





LED Waterproof Performer G3

- Powerful range of waterproof luminaires in specific "sealed for life" design
- High efficacy up to 135 lm/W
- Available as Smart Lighting solution (BLE) and DALI2
- Quick installation thanks to its screwless endcap
- Supplied with vandal-proof stainless steel ceiling and suspension clips
- Equipped with throughwiring, special PLUS version with 2 additional wires
- DALI2 driver compatible with 230V push dimming



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Internal wiring (mm ²)	Weight (kg/pc)
On-Off								
543022015500	LEDWaterproof-P3 L710-12.5W-4000	TL 1x18W	12.5	1600	130	4000	3x2.5	0.89
543022015600	LEDWaterproof-P3 L710-24W-4000	TL 2x18W	24	3100	130	4000	3x2.5	0.89
543022015800	LEDWaterproof-P3 L1310-24W-4000	TL 1x36W	24	3100	130	4000	3x2.5	1.55
543022015700	LEDWaterproof-P3 L1310-38W-4000	TL 2x36W	38	5000	130	4000	3x2.5	1.55
543022016300	LEDWaterproof-P3 L1310-38W-4000-PLUS	TL 2x36W	38	5000	130	4000	5x2.5	1.60
543022015900	LEDWaterproof-P3 L1310-38W-6500	TL 2x36W	38	5000	130	6500	3x2.5	1.55
543022016000	LEDWaterproof-P3 L1610-31W-4000	TL 1x58W	31	4000	130	4000	3x2.5	1.71
543022016400	LEDWaterproof-P3 L1610-31W-4000-PLUS	TL 1x58W	31	4000	130	4000	5x2.5	1.77
543022016100	LEDWaterproof-P3 L1610-47W-4000	TL 2x58W	47	6100	130	4000	3x2.5	1.71
543022016200	LEDWaterproof-P3 L1610-54W-4000	TL 2x58W	54	7000	130	4000	3x2.5	1.71
543022016500	LEDWaterproof-P3 L1610-54W-4000-PLUS	TL 2x58W	54	7000	130	4000	5x2.5	1.77
543022016600	LEDWaterproof-P3 L1610-54W-6500	TL 2x58W	54	7000	130	6500	3x2.5	1.71
543022024100	LEDWaterproof-P3 L1610-75W-4000	TL 2x80W	75	9375	125	4000	3x2.5	2.35
543022024200	LEDWaterproof-P3 L1610-90W-4000	2x TLM 140W RS	90	11700	130	4000	3x2.5	2.35
DALI2								
543022018200	LEDWaterproof-P3 L710-22W-4000-DALI	TL 2x18W	22	3000	135	4000	5x2.5	0.99
543022018500	LEDWaterproof-P3 L1310-36W-4000-DALI	TL 2x36W	36	5000	135	4000	5x2.5	1.51
543022018400	LEDWaterproof-P3 L1310-36W-6500-DALI	TL 2x36W	36	5000	135	6500	5x2.5	1.51
543022018600	LEDWaterproof-P3 L1610-31W-4000-DALI	TL 1x58W	31	4200	135	4000	5x2.5	1.75
543022018800	LEDWaterproof-P3 L1610-51W-4000-DALI	TL 2x58W	51	7000	135	4000	5x2.5	1.75
543022018900	LEDWaterproof-P3 L1610-51W-6500-DALI	TL 2x58W	51	7000	135	6500	5x2.5	1.75
Smart								
543022019800	LEDWaterproof-P3 L710-22W-4000-BLE	TL 2x18W	22	3000	135	4000	3x2.5	0.99
543022019300	LEDWaterproof-P3 L1310-36W-4000-BLE	TL 2x36W	36	5000	135	4000	3x2.5	1.51
543022019400	LEDWaterproof-P3 L1610-31W-4000-BLE	TL 1x58W	31	4200	135	4000	3x2.5	1.75
543022019600	LEDWaterproof-P3 L1610-51W-4000-BLE	TL 2x58W	51	7000	135	4000	3x2.5	1.75

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Internal wiring (mm ²)	Weight (kg/pc)
Emergency version 1 hour, On-Off								
543022021600	LEDWaterproof-P3 L710-12.5W-4000-EM1	TL 1x18W	12.5	1600	130	4000	4x2.5	1.07
543022021800	LEDWaterproof-P3 L710-24W-4000-EM1	TL 2x18W	24	3100	130	4000	4x2.5	1.07
543022022000	LEDWaterproof-P3 L1310-24W-4000-EM1	TL 1x36W	24	3100	130	4000	4x2.5	1.73
543022022200	LEDWaterproof-P3 L1310-38W-4000-EM1	TL 2x36W	38	5000	130	4000	4x2.5	1.73
543022023500	LEDWaterproof-P3 L1310-38W-4000-PLUS-EM1	TL 2x36W	38	5000	130	4000	5x2.5	1.78
543022022400	LEDWaterproof-P3 L1310-38W-6500-EM1	TL 2x36W	38	5000	130	6500	4x2.5	1.73
543022022700	LEDWaterproof-P3 L1610-31W-4000-EM1	TL 1x58W	31	4000	130	4000	4x2.5	1.89
543022023600	LEDWaterproof-P3 L1610-31W-4000-PLUS-EM1	TL 1x58W	31	4000	130	4000	5x2.5	1.95
543022022900	LEDWaterproof-P3 L1610-47W-4000-EM1	TL 2x58W	47	6100	130	4000	4x2.5	1.89
543022023100	LEDWaterproof-P3 L1610-54W-4000-EM1	TL 2x58W	54	7000	130	4000	4x2.5	1.89
543022023800	LEDWaterproof-P3 L1610-54W-4000-PLUS-EM1	TL 2x58W	54	7000	130	4000	5x2.5	1.95
543022023300	LEDWaterproof-P3 L1610-54W-6500-EM1	TL 2x58W	54	7000	130	6500	4x2.5	1.89
Emergency version 3 hours, On-Off								
543022022100	LEDWaterproof-P3 L1310-24W-4000-EM3	TL 1x36W	24	3100	130	4000	4x2.5	2.03
543022022600	LEDWaterproof-P3 L1310-38W-4000-EM3	TL 2x36W	38	5000	130	4000	4x2.5	2.03
543022022300	LEDWaterproof-P3 L1310-38W-4000-PLUS-EM3	TL 2x36W	38	5000	130	4000	5x2.5	2.08
543022022500	LEDWaterproof-P3 L1310-38W-6500-EM3	TL 2x36W	38	5000	130	6500	4x2.5	2.03
543022022800	LEDWaterproof-P3 L1610-31W-4000-EM3	TL 1x58W	31	4000	130	4000	4x2.5	2.19
543022023700	LEDWaterproof-P3 L1610-31W-4000-PLUS-EM3	TL 1x58W	31	4000	130	4000	5x2.5	2.25
543022023000	LEDWaterproof-P3 L1610-47W-4000-EM3	TL 2x58W	47	6100	130	4000	4x2.5	2.19
543022023200	LEDWaterproof-P3 L1610-54W-4000-EM3	TL 2x58W	54	7000	130	4000	4x2.5	2.19
543022023900	LEDWaterproof-P3 L1610-54W-4000-PLUS-EM3	TL 2x58W	54	7000	130	4000	5x2.5	2.25
543022023400	LEDWaterproof-P3 L1610-54W-6500-EM3	TL 2x58W	54	7000	130	6500	4x2.5	2.19

DALI2 versions are compatible with central emergency lighting according to EN 50172.

Available on request with 3- or 5- pole Wieland GST18i connector.

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off / DALI / BLE
Beam angle	110 °
Finishing	Grey RAL 7035
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Input wire diameter	1mm ² - 2.5mm ²

Electrical Supply

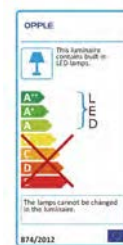
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

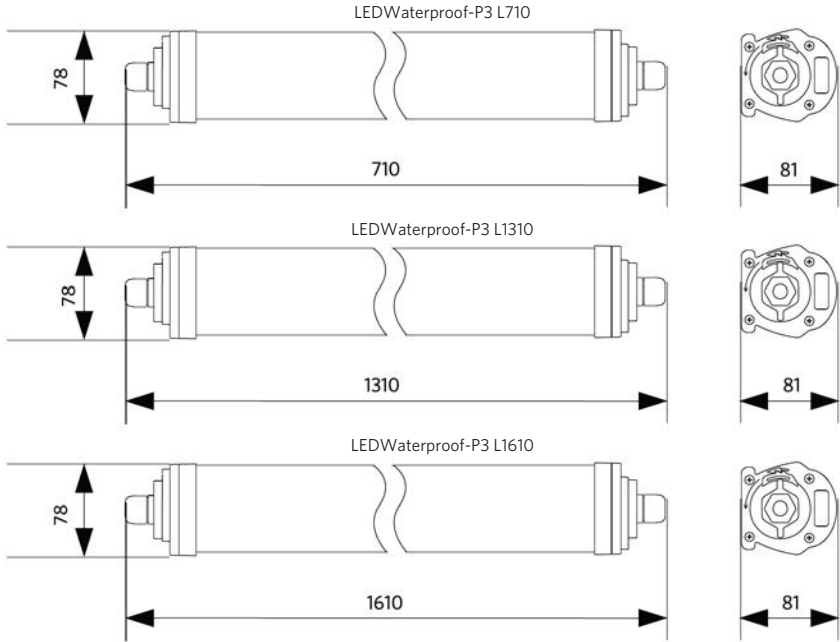
Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate
Mounting clips	Stainless steel

Ambient Conditions

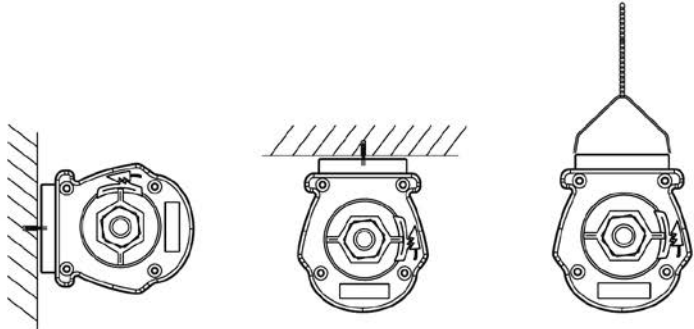
Operating temperature	-25-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)



Installation Possibilities





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY



LED Waterproof Classic

- Compact retrofit Waterproof luminaire, with removable cover
- Available in 3 lengths and 4 lumen packages with efficacy of 120 lm/W
- Flexible installation: possible to wire from the back and sides
- Compatible with 2.5mm² wires
- 5-Wire through wiring possible
- Easy, vandalism-proof mounting clips



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Internal wiring (mm ²)	Weight (kg/pc)
On-Off								
531000003000	LEDWaterproof-CLA-E L650-20W-4000	TL 2x18W	20	2400	120	4000	3x1.5	0.81
531000004100	LEDWaterproof-CLA-E L1250-20W-4000	TL 1x36W	20	2400	120	4000	3x1.5	1.49
531000004200	LEDWaterproof-CLA-E L1250-43W-4000	TL 2x36W	43	5160	120	4000	3x1.5	1.49
531000004300	LEDWaterproof-CLA-E L1550-29W-4000	TL 1x58W	29	3480	120	4000	3x1.5	1.87
531000004400	LEDWaterproof-CLA-E L1550-53W-4000	TL 2x58W	53	6360	120	4000	3x1.5	1.87
Emergency version 1 hour, On-Off								
549013000900	LEDWaterproof-CLA-E L650-20W-4000-EM1	TL 2x18W	20	2400	120	4000	3x1.5	0.99
549013001000	LEDWaterproof-CLA-E L1250-20W-4000-EM1	TL 1x36W	20	2400	120	4000	3x1.5	1.67
549013001100	LEDWaterproof-CLA-E L1250-43W-4000-EM1	TL 2x36W	43	5160	120	4000	3x1.5	1.67
549013001200	LEDWaterproof-CLA-E L1550-29W-4000-EM1	TL 1x58W	29	3480	120	4000	3x1.5	2.05
549013001300	LEDWaterproof-CLA-E L1550-53W-4000-EM1	TL 2x58W	53	6360	120	4000	3x1.5	2.05
Emergency version 3 hours, On-Off								
549013001400	LEDWaterproof-CLA-E L650-20W-4000-EM3	TL 2x18W	20	2400	120	4000	3x1.5	1.29
549013001500	LEDWaterproof-CLA-E L1250-20W-4000-EM3	TL 1x36W	20	2400	120	4000	3x1.5	1.97
549013001600	LEDWaterproof-CLA-E L1250-43W-4000-EM3	TL 2x36W	43	5160	120	4000	3x1.5	1.97
549013001700	LEDWaterproof-CLA-E L1550-29W-4000-EM3	TL 1x58W	29	3480	120	4000	3x1.5	2.35
549013001800	LEDWaterproof-CLA-E L1550-53W-4000-EM3	TL 2x58W	53	6360	120	4000	3x1.5	2.35

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	120 °
Finishing	Grey RAL 7035
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Input wire diameter	1mm ² - 2.5mm ²

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate
Mounting clips	Stainless steel

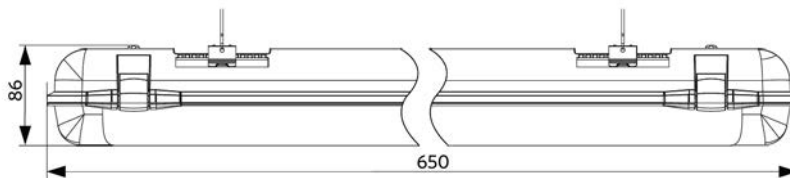
Ambient Conditions

Operating temperature	-25-+40 °C
Application temperature	+25 °C
Storage environment	-30-+50 °C

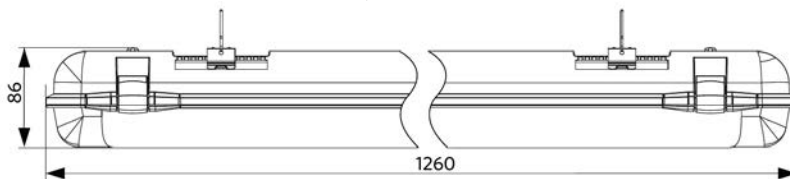


Dimensional Drawing (mm)

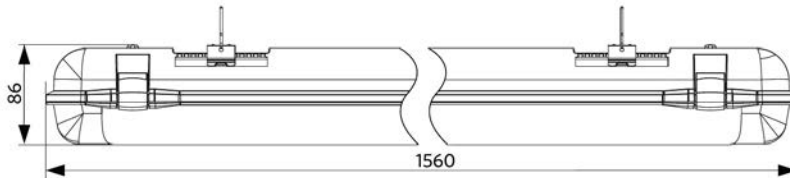
LEDWaterproof-CLA-E L650



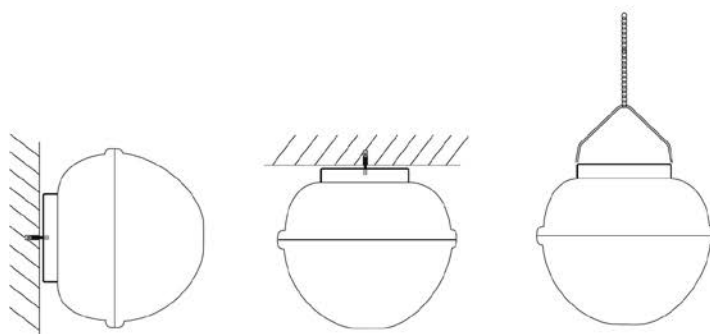
LEDWaterproof-CLA-E L1250



LEDWaterproof-CLA-E L1550



Installation Possibilities





LED Waterproof EcoMax G2

- Waterproof luminaire in "sealed-for-life" concept
- 3 lengths and 6 lumen packages, with efficacy up to 120 lm/W
- Quick installation through the easy to open endcap
- Up to 50% lower energy consumption compared to traditional TL lighting
- Supplied with vandal-proof stainless steel ceiling and suspension clips
- Equipped with 3x2.5mm² throughwiring



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Internal wiring (mm ²)	Weight (kg/pc)
On-Off								
543022012600	LEDWaterproof-E2 L680-10W-4000	TL 1x18W	10	1200	120	4000	3x2.5	0.55
543022012500	LEDWaterproof-E2 L680-20W-4000	TL 2x18W	20	2400	120	4000	3x2.5	0.61
543022012400	LEDWaterproof-E2 L1260-18W-4000	TL 1x36W	18	2200	120	4000	3x2.5	0.97
543022012300	LEDWaterproof-E2 L1260-37W-4000	TL 2x36W	37	4450	120	4000	3x2.5	0.99
543022012200	LEDWaterproof-E2 L1260-37W-6500	TL 2x36W	37	4450	120	6500	3x2.5	0.99
543022012100	LEDWaterproof-E2 L1540-27W-4000	TL 1x58W	27	3250	120	4000	3x2.5	1.08
543022012000	LEDWaterproof-E2 L1540-50W-4000	TL 2x58W	50	6000	120	4000	3x2.5	1.13
543022011900	LEDWaterproof-E2 L1540-50W-6500	TL 2x58W	50	6000	120	6500	3x2.5	1.13

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	120 °
Finishing	Grey RAL 7035
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Input wire diameter	1mm ² - 2.5mm ²

Electrical Supply

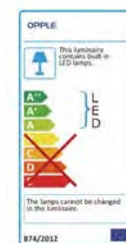
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate
Mounting clips	Stainless steel

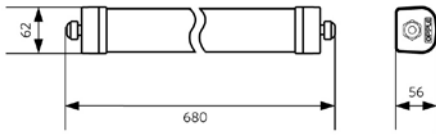
Ambient Conditions

Operating temperature	-20-+45 °C
Application temperature	+25 °C
Storage environment	-30-+50 °C

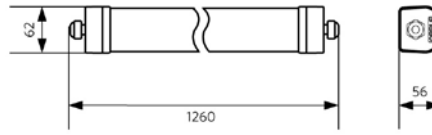


Dimensional Drawing (mm)

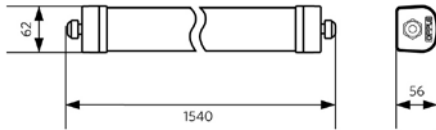
LEDWaterproof-E2 L680



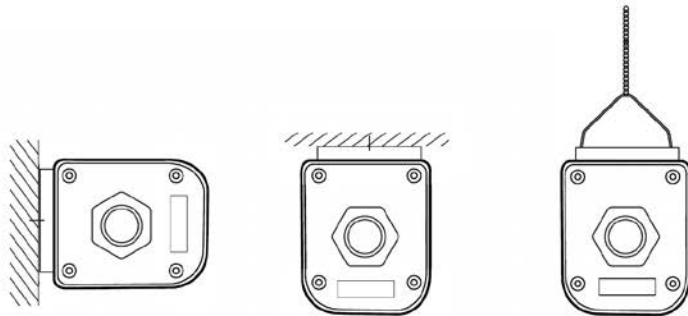
LEDWaterproof-E2 L1260



LEDWaterproof-E2 L1540



Installation Possibilities





LED Waterproof Basic

- Cost effective "sealed-for-life" waterproof luminaire
- Available with wirethrough (WT) for faster installation
- Available in two CCTs (4000K/6500K)
- Up to 60% lower energy consumption compared to traditional TL lighting
- Quick installation through the easy to open endcap
- Supplied with stainless steel ceiling and suspension clips



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Wirethrough	Internal wiring (mm ²)	Weight (kg/pc)
On-Off									
543022006400	LEDWaterproof-B L1150-36W-4000	TL 2x36W	36	4000	110	4000	No	2x1.5	1.03
543022017500	LEDWaterproof-B L1150-36W-4000-WT	TL 2x36W	36	4000	110	4000	Yes	2x1.5	1.03
543022017900	LEDWaterproof-B L1150-36W-6500	TL 2x36W	36	4000	110	6500	No	2x1.5	1.11
543022017700	LEDWaterproof-B L1150-36W-6500-WT	TL 2x36W	36	4000	110	6500	Yes	2x1.5	1.11
543022006500	LEDWaterproof-B L1450-50W-4000	TL 2x58W	50	5500	110	4000	No	2x1.5	1.24
543022017600	LEDWaterproof-B L1450-50W-4000-WT	TL 2x58W	50	5500	110	4000	Yes	2x1.5	1.24
543022018000	LEDWaterproof-B L1450-50W-6500	TL 2x58W	50	5500	110	6500	No	2x1.5	1.34
543022017800	LEDWaterproof-B L1450-50W-6500-WT	TL 2x58W	50	5500	110	6500	Yes	2x1.5	1.34

Technical Specifications

Lifetime (L70)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	110 °
Finishing	Grey RAL 7035
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	II
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

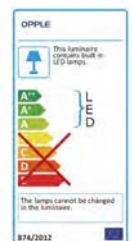
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate
Mounting clips	Stainless steel

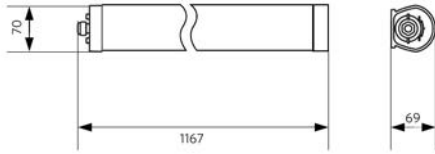
Ambient Conditions

Operating temperature	-20-+45 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

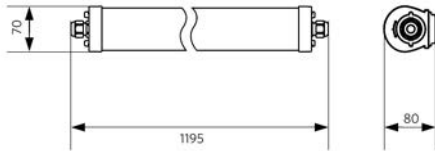


Dimensional Drawing (mm)

LEDWaterproof-B L1150-36W-4000
LEDWaterproof-B L1150-36W-6500



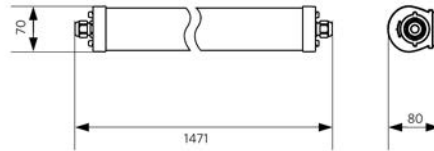
LEDWaterproof-B L1150-36W-4000-WT
LEDWaterproof-B L1150-36W-6500-WT



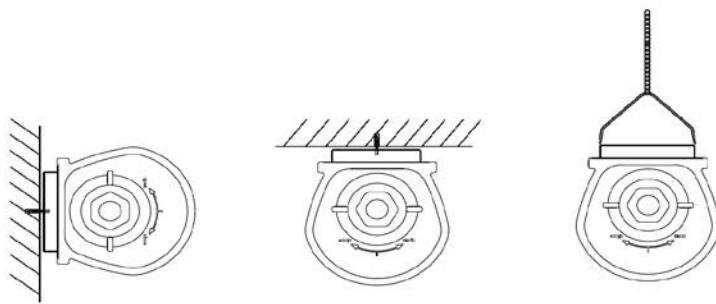
LEDWaterproof-B L1450-50W-4000
LEDWaterproof-B L1450-50W-6500



LEDWaterproof-B L1450-50W-4000-WT
LEDWaterproof-B L1450-50W-6500-WT



Installation Possibilities





LED Trunking

- Professional LED light line solution
- Simple installation with snap-in mounting of LED modules and trunks
- Huge energy saving up to 65% compared to conventional TL lighting
- Very high efficacy of 160 lm/W
- Multiple beam angles and powers available
- Extra energy saving by using DALI dimmable LED modules and fully customisable DALI sensors
- Integration of 3C Spots possible with 3C Track Module accessory



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
542005008200	LEDTrunking Module L15-35W-4000-120	TL 2x58W	35	5600	160	4000	120 °	1.64
542005006000	LEDTrunking Module L15-50W-4000-60	TL 2x80W	50	8000	160	4000	60 °	1.64
542005005900	LEDTrunking Module L15-50W-4000-90	TL 2x80W	50	8000	160	4000	90 °	1.64
542005005800	LEDTrunking Module L15-50W-4000-120	TL 2x80W	50	8000	160	4000	120 °	1.64
542005006100	LEDTrunking Module L15-50W-4000-BW	TL 2x80W	50	8000	160	4000	Batwing	1.64
542005006400	LEDTrunking Module L15-70W-4000-60	2x TLM 140W RS	70	11200	160	4000	60 °	1.71
542005006300	LEDTrunking Module L15-70W-4000-90	2x TLM 140W RS	70	11200	160	4000	90 °	1.71
542005006200	LEDTrunking Module L15-70W-4000-120	2x TLM 140W RS	70	11200	160	4000	120 °	1.71
542005006500	LEDTrunking Module L15-70W-4000-BW	2x TLM 140W RS	70	11200	160	4000	Batwing	1.71
DALI								
542005008600	LEDTrunking Module L15-35W-4000-120-DALI	TL 2x58W	35	5600	160	4000	120 °	1.64
542005006800	LEDTrunking Module L15-50W-4000-60-DALI	TL 2x80W	50	8000	160	4000	60 °	1.64
542005006700	LEDTrunking Module L15-50W-4000-90-DALI	TL 2x80W	50	8000	160	4000	90 °	1.64
542005006600	LEDTrunking Module L15-50W-4000-120-DALI	TL 2x80W	50	8000	160	4000	120 °	1.64
542005006900	LEDTrunking Module L15-50W-4000-BW-DALI	TL 2x80W	50	8000	160	4000	Batwing	1.64
542005007200	LEDTrunking Module L15-70W-4000-60-DALI	2x TLM 140W RS	70	11200	160	4000	60 °	1.71
542005007100	LEDTrunking Module L15-70W-4000-90-DALI	2x TLM 140W RS	70	11200	160	4000	90 °	1.71
542005007000	LEDTrunking Module L15-70W-4000-120-DALI	2x TLM 140W RS	70	11200	160	4000	120 °	1.71
542005007300	LEDTrunking Module L15-70W-4000-BW-DALI	2x TLM 140W RS	70	11200	160	4000	Batwing	1.71
Emergency version 1 hour, On-Off								
549004007010	LEDTrunk Mod L15-35W-4000-120-EM1	TL 2x58W	35	5600	160	4000	120 °	1.94
549004007210	LEDTrunk Mod L15-50W-4000-60-EM1	TL 2x80W	50	8000	160	4000	60 °	1.94
549004007610	LEDTrunk Mod L15-50W-4000-90-EM1	TL 2x80W	50	8000	160	4000	90 °	1.94
549004005510	LEDTrunk Mod L15-50W-4000-120-EM1	TL 2x80W	50	8000	160	4000	120 °	1.94
549004004110	LEDTrunk Mod L15-50W-4000-BW-EM1	TL 2x80W	50	8000	160	4000	Batwing	1.94
549004007410	LEDTrunk Mod L15-70W-4000-60-EM1	2x TLM 140W RS	70	11200	160	4000	60 °	2.01
549004007510	LEDTrunk Mod L15-70W-4000-90-EM1	2x TLM 140W RS	70	11200	160	4000	90 °	2.01
549004007310	LEDTrunk Mod L15-70W-4000-120-EM1	2x TLM 140W RS	70	11200	160	4000	120 °	2.01
549004008010	LEDTrunk Mod L15-70W-4000-BW-EM1	2x TLM 140W RS	70	11200	160	4000	Batwing	2.01

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
Emergency version 1 hour, DALI								
549004006910	LEDTrunk Mod L15-35W-4000-120-DALI-EM1	TL 2x58W	35	5600	160	4000	120 °	1.94
549004005610	LEDTrunk Mod L15-50W-4000-60-DALI-EM1	TL 2x80W	50	8000	160	4000	60 °	1.94
549004006310	LEDTrunk Mod L15-50W-4000-90-DALI-EM1	TL 2x80W	50	8000	160	4000	90 °	1.94
549004007110	LEDTrunk Mod L15-50W-4000-120-DALI-EM1	TL 2x80W	50	8000	160	4000	120 °	1.94
549004004210	LEDTrunk Mod L15-50W-4000-BW-DALI-EM1	TL 2x80W	50	8000	160	4000	Batwing	1.94
549004006410	LEDTrunk Mod L15-70W-4000-60-DALI-EM1	2x TLM 140W RS	70	11200	160	4000	60 °	2.01
549004006210	LEDTrunk Mod L15-70W-4000-90-DALI-EM1	2x TLM 140W RS	70	11200	160	4000	90 °	2.01
549004006510	LEDTrunk Mod L15-70W-4000-120-DALI-EM1	2x TLM 140W RS	70	11200	160	4000	120 °	2.01
549004006110	LEDTrunk Mod L15-70W-4000-BW-DALI-EM1	2x TLM 140W RS	70	11200	160	4000	Batwing	2.01
Emergency version 3 hours, On-Off								
549004004610	LEDTrunk Mod L15-35W-4000-120-EM3	TL 2x58W	35	5600	160	4000	120 °	2.04
549004005910	LEDTrunk Mod L15-50W-4000-60-EM3	TL 2x80W	50	8000	160	4000	60 °	2.04
549004005710	LEDTrunk Mod L15-50W-4000-90-EM3	TL 2x80W	50	8000	160	4000	90 °	2.04
549004006810	LEDTrunk Mod L15-50W-4000-120-EM3	TL 2x80W	50	8000	160	4000	120 °	2.04
549004005810	LEDTrunk Mod L15-50W-4000-BW-EM3	TL 2x80W	50	8000	160	4000	Batwing	2.04
549004004810	LEDTrunk Mod L15-70W-4000-60-EM3	2x TLM 140W RS	70	11200	160	4000	60 °	2.11
549004006710	LEDTrunk Mod L15-70W-4000-90-EM3	2x TLM 140W RS	70	11200	160	4000	90 °	2.11
549004006010	LEDTrunk Mod L15-70W-4000-120-EM3	2x TLM 140W RS	70	11200	160	4000	120 °	2.11
549004004010	LEDTrunk Mod L15-70W-4000-BW-EM3	2x TLM 140W RS	70	11200	160	4000	Batwing	2.11
Emergency version 3 hours, DALI								
549004004510	LEDTrunk Mod L15-35W-4000-120-DALI-EM3	TL 2x58W	35	5600	160	4000	120 °	2.04
549004005310	LEDTrunk Mod L15-50W-4000-60-DALI-EM3	TL 2x80W	50	8000	160	4000	60 °	2.04
549004005410	LEDTrunk Mod L15-50W-4000-90-DALI-EM3	TL 2x80W	50	8000	160	4000	90 °	2.04
549004006610	LEDTrunk Mod L15-50W-4000-120-DALI-EM3	TL 2x80W	50	8000	160	4000	120 °	2.04
549004005210	LEDTrunk Mod L15-50W-4000-BW-DALI-EM3	TL 2x80W	50	8000	160	4000	Batwing	2.04
549004004910	LEDTrunk Mod L15-70W-4000-60-DALI-EM3	2x TLM 140W RS	70	11200	160	4000	60 °	2.11
549004005010	LEDTrunk Mod L15-70W-4000-90-DALI-EM3	2x TLM 140W RS	70	11200	160	4000	90 °	2.11
549004005110	LEDTrunk Mod L15-70W-4000-120-DALI-EM3	2x TLM 140W RS	70	11200	160	4000	120 °	2.11
549004004710	LEDTrunk Mod L15-70W-4000-BW-DALI-EM3	2x TLM 140W RS	70	11200	160	4000	Batwing	2.11
Trunks								
542098002100	LEDTrunking Trunk 8 L15							1.75
542098002200	LEDTrunking Trunk 8 L15 End Part							1.40
542098002300	LEDTrunking Trunk 8 L30							3.30
542098002400	LEDTrunking Trunk 8 L30 End Part							2.95

DALI versions are compatible with central emergency lighting according to EN 50172.

For more technical information, please go to the appendix.

Accessories



542098001300
LEDTrunking Feed-in Box 8



542098011200
LEDTrunking Feed-out Box 8



542098001500
LEDTrunking Feed-in Connector 8

542098003000
LEDTrunking Cable Gland



542098004600
LEDTrunking Sensor Probe L
542098004700
LEDTrunking Sensor Probe H



542098001100
LEDTrunking Sensor Cover L15



542098001000
LEDTrunking DALI Power Supply



542098001700
LEDTrunking End Cap



542098001800
LEDTrunking Cover L15



542098011000
LEDTrunking Cover End Cap



542098012700
LEDTrunking 3C Track Module



542098001900
LEDTrunking Mounting Clip Chain



542098002000
LEDTrunking Cord-3m



542098002900
LEDTrunking Mounting Clip

Technical Specifications

Lifetime (L70)	70,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / DALI
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Power factor	≥ 0.9

Electrical Supply

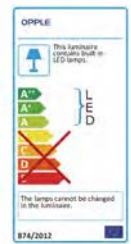
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Steel
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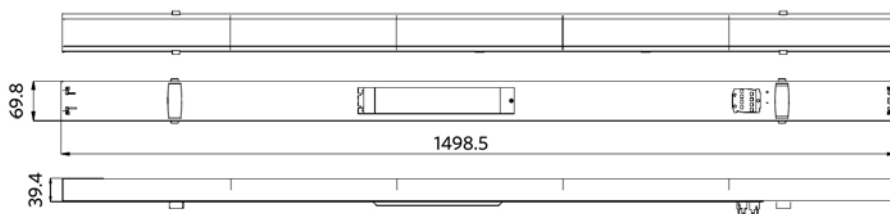
Ambient Conditions

Operating temperature	-25-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

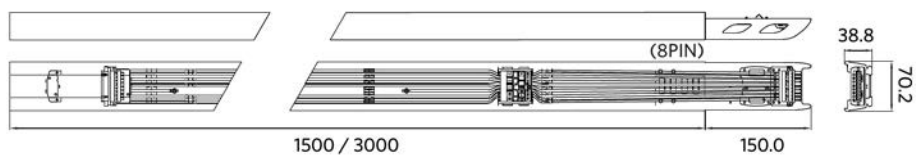


Dimensional Drawing (mm)

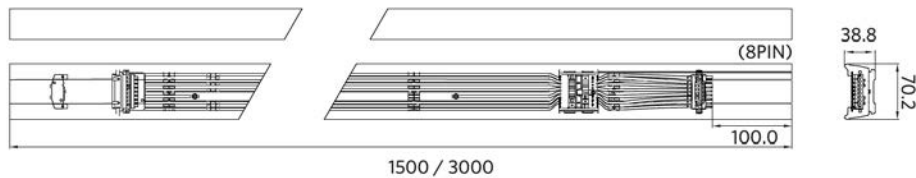
LEDTrunking Mod



LEDTrunking Trunk 8



LEDTrunking Trunk 8
End part





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY



Smart 10
Indoor 24
Outdoor 114
Lamps & Tools 136
Technical Data 154
Glossary 176





LED Roadlight

- Modern-looking Roadlight solution with robust die-cast aluminium body
- Available with step dimming or DALI dimming for increased energy savings
- Up to 60% energy saving compared to HID roadlights
- Advanced optical design optimized for road lighting
- Flexible and adjustable pole connector for both side entry and pole top mounting
- IP66 and coastline proof



Separate Pole Adapter is necessary to be ordered with Roadlight to install the product

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
DALI							
543014005800	LEDRoadlight-90W-4000-DALI	HID 150W	90	11250	125	4000	9.00
543014005700	LEDRoadlight-120W-4000-DALI	HID 150W	120	15000	125	4000	9.20
543014005600	LEDRoadlight-150W-4000-DALI	HID 250W	150	18750	125	4000	9.20
543014005500	LEDRoadlight-200W-4000-DALI	HID 250W	200	24000	120	4000	9.40
STEP-Dim							
543014015700	LEDRoadlight-90W-4000-STEP	HID 150W	90	11250	125	4000	9.00
543014015900	LEDRoadlight-120W-4000-STEP	HID 150W	120	15000	125	4000	9.20
543014015600	LEDRoadlight-150W-4000-STEP	HID 250W	150	18750	125	4000	9.20
543014015800	LEDRoadlight-200W-4000-STEP	HID 250W	200	24000	120	4000	9.40

For more technical information, please go to the appendix.

Accessories



543098007000
Pole Adapter-Roadlight-60mm



599006051700
Pole Adapter-Roadlight-76mm



Technical Specifications	
Lifetime (L70)	100,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	6
Dimmability	DALI / STEP
Beam angle	150 ° x 70 °
Maximum tilt angle	15 °
Finishing	Grey
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	10 kV

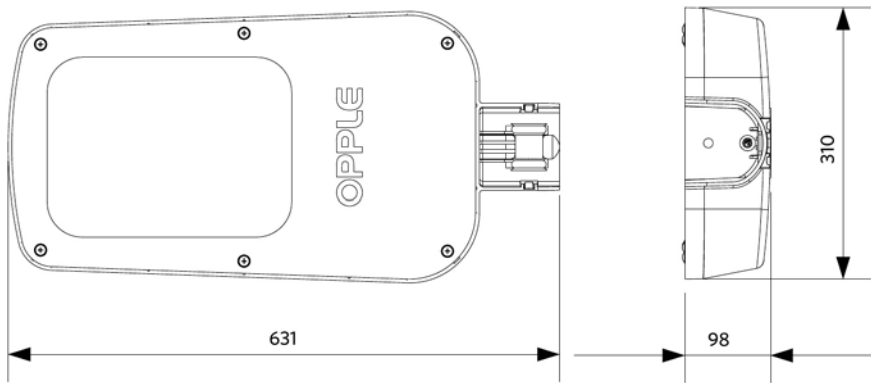
Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties	
Material housing	Aluminium
Optical material	Polycarbonate
Compatible pole Ø	48-76 mm
Effective wind area	1478 cm ²

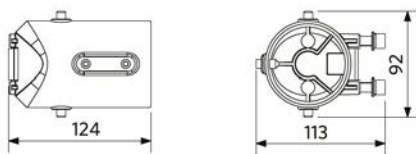
Ambient Conditions	
Operating temperature	-30-+50 °C
Application temperature	+25 °C
Storage environment	-30-+65 °C

Dimensional Drawing (mm)

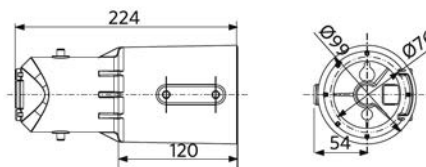
LEDRoadlight



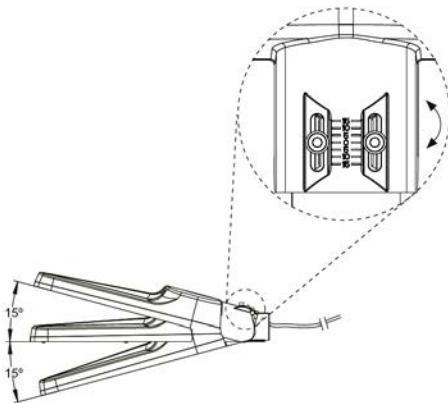
Pole Adapter-Roadlight-60mm



Pole Adapter-Roadlight-76mm

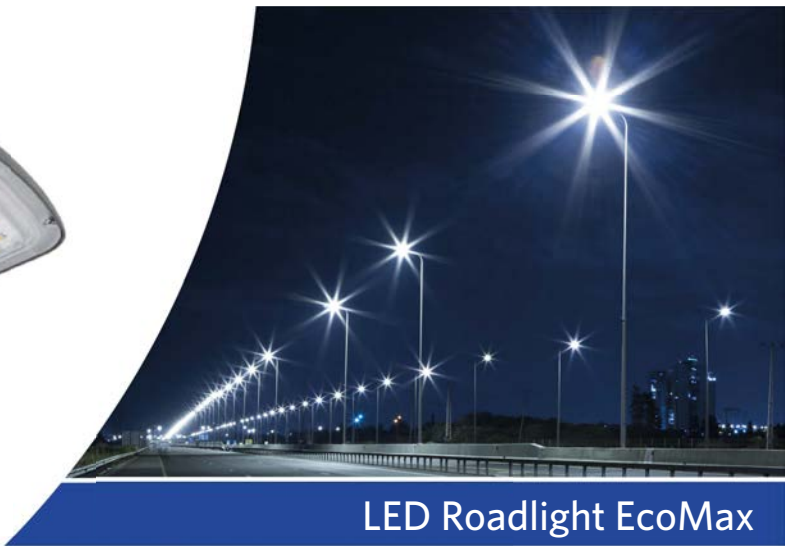


LEDRoadlight Tilting





NEW



LED Roadlight EcoMax

- Up to 60% energy saving compared to traditional roadlights
- Advanced optical design optimized for road lighting
- High efficacy up to 125 lm/W
- Accessories available for many pole types and connections
- Robust die-cast aluminium body
- IP66 and coastline proof



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
705000021300	LEDRoadlight-E 80W-3000	HID 150W	80	9500	118	3000	3.27
705000021800	LEDRoadlight-E 80W-4000	HID 150W	80	10000	125	4000	3.27
705000021400	LEDRoadlight-E 100W-3000	HID 150W	100	11600	116	3000	3.27
705000021900	LEDRoadlight-E 100W-4000	HID 150W	100	12500	125	4000	3.27

For more technical information, please go to the appendix.

Accessories



705098003600
LEDStreetlight Wall-Bracket-60



705098003500
LEDStreetlight 76-Adapter-60



705098003700
LEDStreetlight Pole-Top-60-Adapter-60



705098003400
LEDStreetlight Pole-Top-76-Adapter-60



599000004600
LEDStreet-SE-ExtensionCable



543098021900
LEDFixture-IP68-Connector-Kit-3

Technical Specifications

Lifetime (L70)	70,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	150 ° x 80 °
Finishing	Grey RAL 870-3
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	6 kV

Electrical Supply

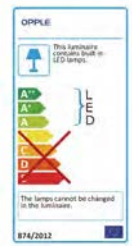
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Compatible pole Ø	42-60 mm
Effective wind area	900 cm ²

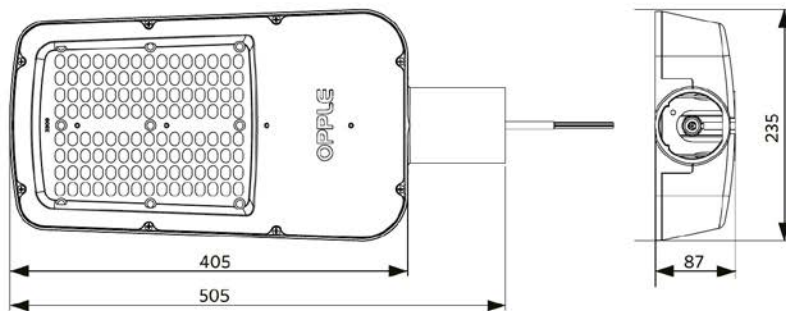
Ambient Conditions

Operating temperature	-40~+50 °C
Application temperature	+25 °C
Storage environment	-30~+60 °C



Dimensional Drawing (mm)

LEDRoadlight-E





NEW



LED Streetlight G2

- Design streetlight luminaire with optimised optical configuration
- Up to 60% energy saving compared to traditional streetlights
- High efficacy up to 125 lm/W
- Low glare & precise optical design
- Accessories available for many pole types and connections
- IP66 and suitable for use on the coastal applications
- Now with 60mm pole entry
- Available also with Daylight Detection Sensor



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
705000021000	LEDStreetlight-E2 20W-3000	HID 50W	20	2300	115	3000	1.27
705000021500	LEDStreetlight-E2 20W-4000	HID 50W	20	2500	125	4000	1.27
705000021100	LEDStreetlight-E2 40W-3000	HID 70W	40	4700	118	3000	1.27
705000021600	LEDStreetlight-E2 40W-4000	HID 70W	40	5000	125	4000	1.27
705000021200	LEDStreetlight-E2 60W-3000	HID 100W	60	7100	118	3000	1.27
705000021700	LEDStreetlight-E2 60W-4000	HID 100W	60	7500	125	4000	1.27
Daylight Detection							
705000022000	LEDStreetlight-E2 20W-4000-DD	HID 50W	20	2500	125	4000	1.32
705000022100	LEDStreetlight-E2 40W-4000-DD	HID 70W	40	5000	125	4000	1.32
705000022200	LEDStreetlight-E2 60W-4000-DD	HID 100W	60	7500	125	4000	1.32

For more technical information, please go to the appendix.

Accessories



Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	145 ° x 80 °
Finishing	Grey RAL 870-3
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	4 kV

Electrical Supply

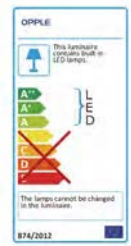
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Compatible pole Ø	42-60 mm
Effective wind area	400 cm ²

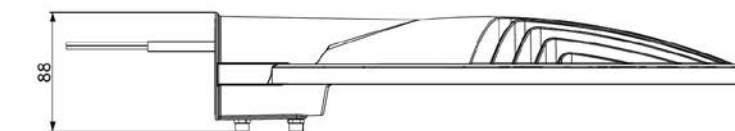
Ambient Conditions

Operating temperature	-40-+50 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C

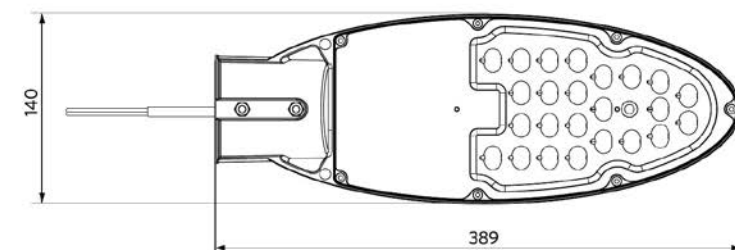
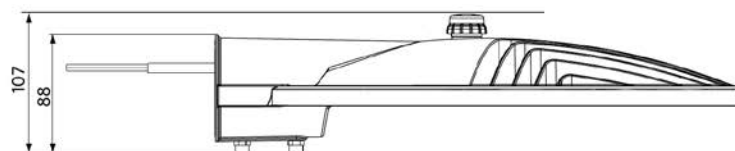


Dimensional Drawing (mm)

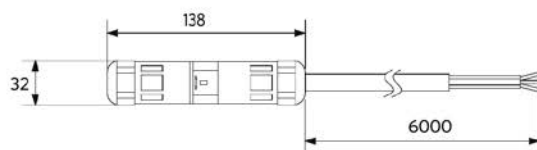
LEDStreetlight-E2



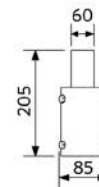
Daylight Detection



LEDStreet-SE-ExtensionCable

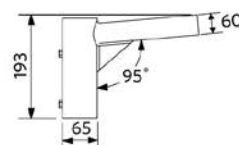


LEDStreetlight 76-Adapter-60



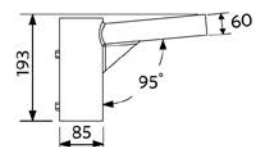
Compatible with poles up to Ø76mm

LEDStreetlight Pole-Top-60-Adapter-60



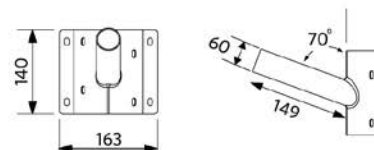
Compatible with poles up to Ø60mm

LEDStreetlight Pole-Top-76-Adapter-60



Compatible with poles up to Ø76mm

LEDStreetlight Wall-Bracket-60





LED Post Top

- Professional post-top solution with optimal light performance
- Integrates well into existing landscape
- Different optics to suit the application and reduce glare
- Die casted aluminium body for optimal heat dissipation
- Available in two pole sizes for more application flexibility
- IP66 and suitable for use on the coastal applications



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Compatible pole Ø	Weight (kg/pc)
543016006000	LEDPostTop-P1- 33W-3000-W	HID 50W	33	4300	130	3000	160 °	60 mm	7.68
708000000400	LEDPostTop-P1- 33W-3000-W-D76	HID 50W	33	4300	130	3000	160 °	76 mm	7.68
543016005700	LEDPostTop-P1- 33W-3000-AS	HID 50W	33	4000	120	3000	45 ° x 150 °	60 mm	7.68
708000000100	LEDPostTop-P1- 33W-3000-AS-D76	HID 50W	33	4000	120	3000	45 ° x 150 °	76 mm	7.68
543016006600	LEDPostTop-P1- 33W-4000-W	HID 50W	33	4500	135	4000	160 °	60 mm	7.68
708000001000	LEDPostTop-P1- 33W-4000-W-D76	HID 50W	33	4500	135	4000	160 °	76 mm	7.68
543016006300	LEDPostTop-P1- 33W-4000-AS	HID 50W	33	4100	125	4000	50 ° x 150 °	60 mm	7.68
708000000700	LEDPostTop-P1- 33W-4000-AS-D76	HID 50W	33	4100	125	4000	50 ° x 150 °	76 mm	7.68
543016006100	LEDPostTop-P1- 50W-3000-W	HID 70W	50	6500	130	3000	155 °	60 mm	7.72
708000000500	LEDPostTop-P1- 50W-3000-W-D76	HID 70W	50	6500	130	3000	155 °	76 mm	7.72
543016005800	LEDPostTop-P1- 50W-3000-AS	HID 70W	50	6000	120	3000	40 ° x 150 °	60 mm	7.72
708000000200	LEDPostTop-P1- 50W-3000-AS-D76	HID 70W	50	6000	120	3000	40 ° x 150 °	76 mm	7.72
543016006700	LEDPostTop-P1- 50W-4000-W	HID 70W	50	6800	135	4000	155 °	60 mm	7.72
708000001100	LEDPostTop-P1- 50W-4000-W-D76	HID 70W	50	6800	135	4000	155 °	76 mm	7.72
543016006400	LEDPostTop-P1- 50W-4000-AS	HID 70W	50	6300	125	4000	40 ° x 150 °	60 mm	7.72
708000000800	LEDPostTop-P1- 50W-4000-AS-D76	HID 70W	50	6300	125	4000	40 ° x 150 °	76 mm	7.72
543016006200	LEDPostTop-P1- 68W-3000-W	HID 100W	68	8800	130	3000	155 °	60 mm	7.91
708000000600	LEDPostTop-P1- 68W-3000-W-D76	HID 100W	68	8800	130	3000	155 °	76 mm	7.91
543016005900	LEDPostTop-P1- 68W-3000-AS	HID 100W	68	8200	120	3000	40 ° x 150 °	60 mm	7.91
708000000300	LEDPostTop-P1- 68W-3000-AS-D76	HID 100W	68	8200	120	3000	40 ° x 150 °	76 mm	7.91
543016006800	LEDPostTop-P1- 68W-4000-W	HID 100W	68	9200	135	4000	155 °	60 mm	7.91
708000001200	LEDPostTop-P1- 68W-4000-W-D76	HID 100W	68	9200	135	4000	155 °	76 mm	7.91
543016006500	LEDPostTop-P1- 68W-4000-AS	HID 100W	68	8500	125	4000	40 ° x 150 °	60 mm	7.91
708000000900	LEDPostTop-P1- 68W-4000-AS-D76	HID 100W	68	8500	125	4000	40 ° x 150 °	76 mm	7.91

Accessories



599000004600
LEDStreet-SE-ExtensionCable

Technical Specifications

Lifetime (L70)	100,000 h
Lifetime (L80)	70,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	5
Dimmability	On-Off
Finishing	Grey RAL 870-3
Colour rendering index CRI	≥ 70
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	10 kV

Electrical Supply

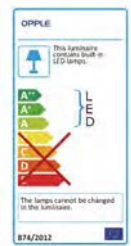
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Effective wind area	1590 cm ²

Ambient Conditions

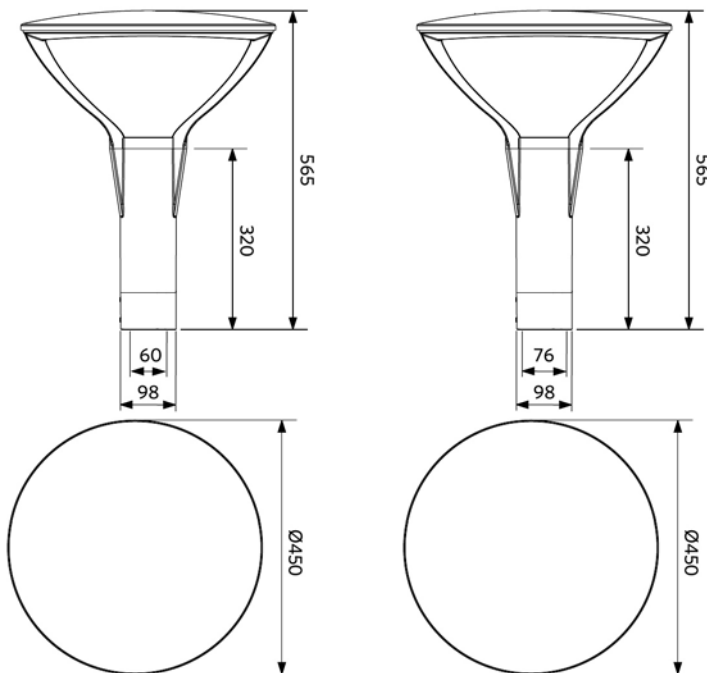
Operating temperature	-30~+50 °C
Application temperature	+25 °C
Storage environment	-40~+60 °C



Dimensional Drawing (mm)

LEDPostTop-P1
D60

LEDPostTop-P1
D76





LED Bollard

- Professional urban landscape luminaire with discreet design
- Special optics to reduce glare to pedestrians
- Available in two heights (0.6m and 0.9m)
- Die casted aluminium body for optimal heat dissipation
- Safe installation thanks to the included anti vandal screws
- Easy to install thanks to its ground plate threaded design
- Suitable for use on the coastal applications



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
On-Off							
543012002500	LEDBollard-P1- L600-10.5W-3000-W	CFL 1x32W	10.5	900	85	3000	2.55
543012002900	LEDBollard-P1- L600-10.5W-4000-W	CFL 1x32W	10.5	1000	95	4000	2.55
543012002600	LEDBollard-P1- L900-10.5W-3000-W	CFL 1x32W	10.5	900	85	3000	3.42
543012003000	LEDBollard-P1- L900-10.5W-4000-W	CFL 1x32W	10.5	1000	95	4000	3.42

Accessories



599000004600
LEDStreet-SE-ExtensionCable

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	35,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Beam angle	230 °
Finishing	Grey RAL 870-3
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	4 kV

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

Ambient Conditions

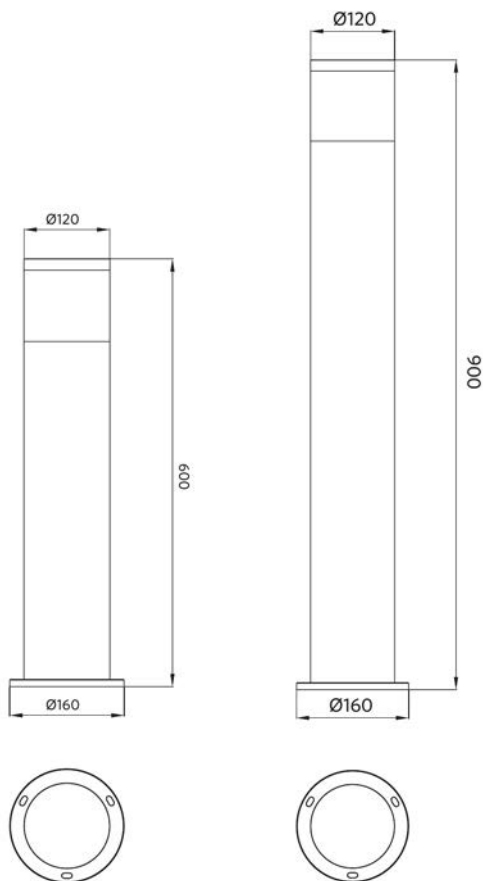
Operating temperature	-20~+45 °C
Application temperature	+25 °C
Storage environment	-40~+60 °C



Dimensional Drawing (mm)

LEDBollard-P1- L600

LEDBollard-P1- L900





LED Flood HO

- Professional Luminaire with special optics for area lighting
- Including IP68 connector for easy connection
- Up to 40% energy saving compared to HID solutions
- Different optics to illuminate sport pitches (Class II/III NEN-EN 12193:2018) and open areas
- Robust design: full IP66 and IK08 protection
- Equipped with 1-10V or DALI dimming for further energy saving
- Anodized aluminium heatsink, ideal for coastline environments



310W version standard including bracket. 620W version standard without bracket.
1240W versions available by combining two 620W modules and the mounting kit-4mod accessory.

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Effective wind area	Weight (kg/pc)
1-10V									
543017043300	LED Flood HO-P-310W-4000-W	HID 500W	310	40000	130	4000	120 ° x 30 °	1110 cm ²	13.47
543017045600	LED Flood HO-P-310W-4000-N	HID 500W	310	40000	130	4000	60 °	1110 cm ²	13.47
543017045400	LED Flood HO-P-310W-4000-XN	HID 500W	310	40000	130	4000	25 °	1110 cm ²	13.47
543017045000	LED Flood HO-P-620W-4000-W	HID 1000W	620	80000	130	4000	120 ° x 30 °	2331 cm ²	17.64
543017045100	LED Flood HO-P-620W-4000-N	HID 1000W	620	80000	130	4000	60 °	2331 cm ²	17.64
543017045300	LED Flood HO-P-620W-4000-XN	HID 1000W	620	80000	130	4000	25 °	2331 cm ²	17.64
543017013300	LED Flood HO-P-310W-5700-W	HID 500W	310	40000	130	5700	120 ° x 30 °	1110 cm ²	13.47
543017013200	LED Flood HO-P-310W-5700-N	HID 500W	310	40000	130	5700	60 °	1110 cm ²	13.47
543017013100	LED Flood HO-P-310W-5700-XN	HID 500W	310	40000	130	5700	25 °	1110 cm ²	13.47
543017012700	LED Flood HO-P-620W-5700-W	HID 1000W	620	80000	130	5700	120 ° x 30 °	2331 cm ²	17.64
543017012600	LED Flood HO-P-620W-5700-N	HID 1000W	620	80000	130	5700	60 °	2331 cm ²	17.64
543017012500	LED Flood HO-P-620W-5700-XN	HID 1000W	620	80000	130	5700	25 °	2331 cm ²	17.64

By default 1-10V dimmable. Available on request with DALI dimming.

Accessories



543098006000
LED Flood HO-P-Mounting Kit-2Mod



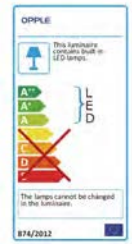
543098005800
LED Flood HO-P-Mounting Kit-4Mod



543098005900
LED Flood HO-P-Safety Cable



543098022000
LED Fixture-IP68-Connector-Kit-5



Technical Specifications

Lifetime (L70)	100,000 h
Lifetime (L80)	70,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	6
Dimmability	1-10V
Finishing	Black
Colour rendering index CRI	≥ 70
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	6 kV

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

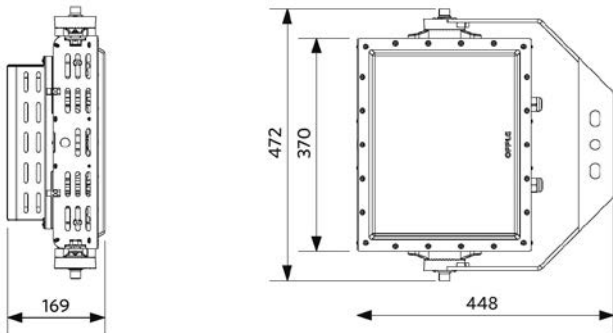
Material housing	Aluminium
Optical material	Polycarbonate
Cover material	Polycarbonate (PC)

Ambient Conditions

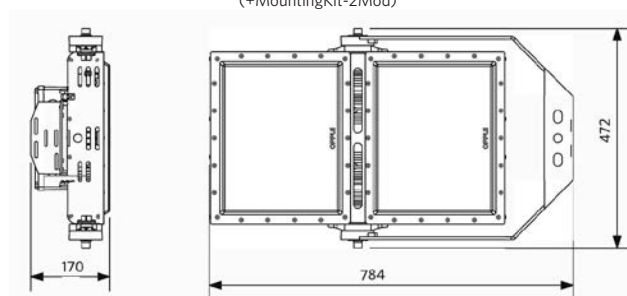
Operating temperature	-30-+50 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C

Dimensional Drawing (mm)

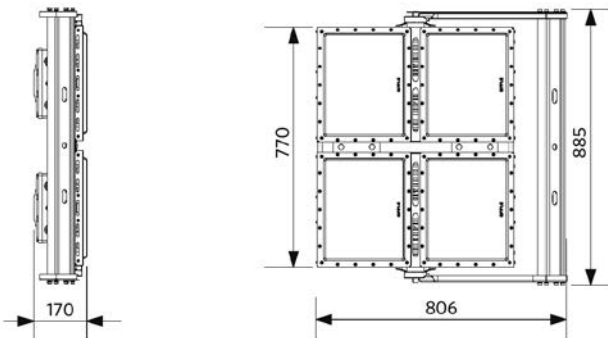
LEDfloodHO-P-310W



LEDfloodHO-P-620W
(+MountingKit-2Mod)



LEDfloodHO-P-620W
(x2 +MountingKit-4Mod)





LED Floodlight Performer

- Precise optical design for area-, object- and façade lighting
- Super slim aluminium body with integrated heatsink and clipless cover
- Very high Efficacy of up to 145 lm/W
- High energy saving up to 65% compared to halogen and high pressure sodium lamps
- Wide (W), Asymmetric (AS) and Narrow (N) beam angles available
- Robust design with high protection against water and dust
- Equipped with a valve to regulate pressure differences
- Available in 32,000 lumens High Power version



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Colour rendering index CRI	Surge protection	Weight (kg/pc)
On-Off										
140062030	LED Flood-P Re440-90W-4000-W-BL	HID 250W	90	11250	125	4000	100 °	≥ 80	4 kV	6.20
140062031	LED Flood-P Re440-90W-4000-AS-BL	HID 250W	90	11250	125	4000	55 ° x 115 °	≥ 80	4 kV	6.20
140062032	LED Flood-P Re440-125W-4000-W-BL	HID 400W	125	15625	125	4000	100 °	≥ 80	4 kV	6.25
140062033	LED Flood-P Re440-125W-4000-AS-BL	HID 400W	125	15625	125	4000	55 ° x 115 °	≥ 80	4 kV	6.20
140062034	LED Flood-P Re440-160W-4000-W-BL	HID 400W	160	20000	125	4000	100 °	≥ 80	4 kV	6.20
140062035	LED Flood-P Re440-160W-4000-AS-BL	HID 400W	160	20000	125	4000	55 ° x 115 °	≥ 80	4 kV	6.25
543017041100	LED Flood-P Re440-220W-4000-N-BL	HID 500W	220	32000	145	4000	50 °	≥ 70	10 kV	6.41
543017026100	LED Flood-P Re440-220W-4000-W-BL	HID 500W	220	32000	145	4000	100 °	≥ 70	10 kV	6.41
543017026200	LED Flood-P Re440-220W-4000-AS-BL	HID 500W	220	32000	145	4000	55 ° x 115 °	≥ 70	10 kV	6.41
543017041200	LED Flood-P Re440-220W-5700-N-BL	HID 500W	220	32000	145	5700	50 °	≥ 70	10 kV	6.41
543017026300	LED Flood-P Re440-220W-5700-W-BL	HID 500W	220	32000	145	5700	100 °	≥ 70	10 kV	6.41
543017026400	LED Flood-P Re440-220W-5700-AS-BL	HID 500W	220	32000	145	5700	55 ° x 115 °	≥ 70	10 kV	6.41

Accessories



543098021900
LED Fixture-IP68-Connector-Kit-3



599000004600
LED Street-SE-Extension Cable



Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Finishing	Black
Degree of protection (IP)	IP66
Impact strength	IK08
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

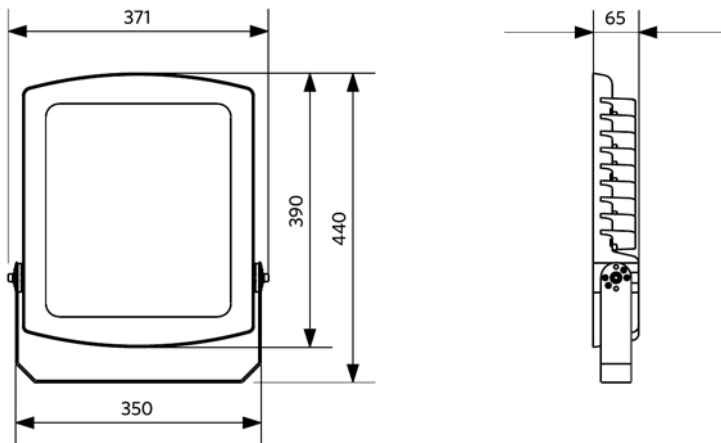
Material housing	Die-casted Aluminum
Optical material	Polycarbonate
Cover material	Tempered glass

Ambient Conditions

Operating temperature	-25-+50 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C

Dimensional Drawing (mm)

LEDflood-P Re440





- Slim aluminium body with integrated heatsink and clipless cover
- Robust and water- and dustproof
- High efficacy up to 120 lm/W
- High energy saving compared to halogen and high pressure sodium lamps
- Range from 3,000 to 8,500 lm
- Compatible brackets and ground spikes available
- IP65 daylight and motion sensor accessory available



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
543017012100	LEDflood-E2 Re199-30W-3000-BL	HID 50W	30	3300	110	3000	110 °	0.85
543017011800	LEDflood-E2 Re199-30W-4000-BL	HID 50W	30	3600	120	4000	110 °	0.85
543017012000	LEDflood-E2 Re253-50W-3000-BL	HID 70W	50	5500	110	3000	110 °	1.40
543017011700	LEDflood-E2 Re253-50W-4000-BL	HID 70W	50	6000	120	4000	110 °	1.40
543017011600	LEDflood-E2 Re283-70W-4000-BL	HID 150W	70	8400	120	4000	110 °	2.10

For more technical information, please go to the appendix.

Accessories



543098021900
LEDFixture-IP68-Connector-Kit-3



140065060
LEDflood-E-Motion-Daylight-Sensor



140060793
LEDflood-E-Re250-280-Bracket-BL



140060792
LEDflood-E-Re250-280-Spike-BL



599000004600
LEDStreet-SE-ExtensionCable

Bracket extendable up to 60 cm.

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Finishing	Black
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK07
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	2 kV

Electrical Supply

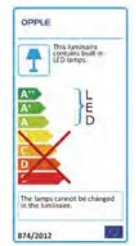
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Cover material	Tempered glass

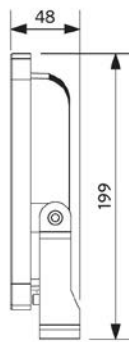
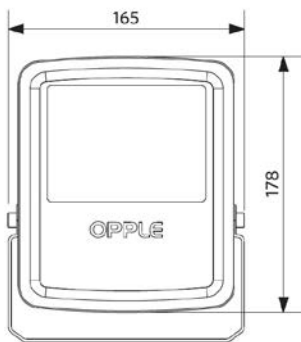
Ambient Conditions

Operating temperature	-30-+50 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C

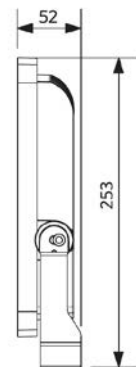
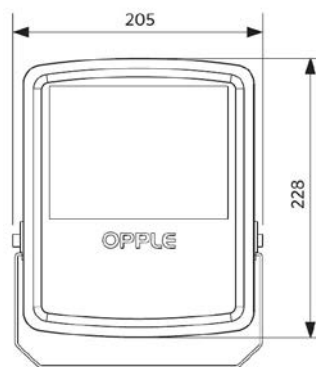


Dimensional Drawing (mm)

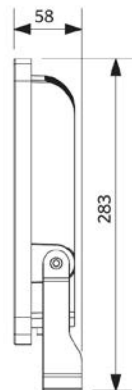
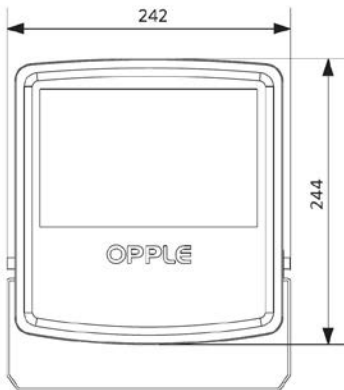
LEDflood-E2 Re199



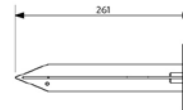
LEDflood-E2 Re253



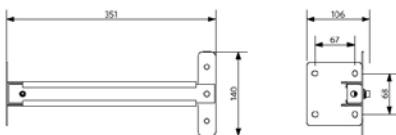
LEDflood-E2 Re283



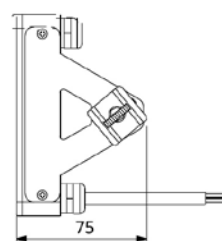
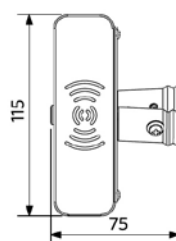
LEDflood-E-Re250-280-Spike

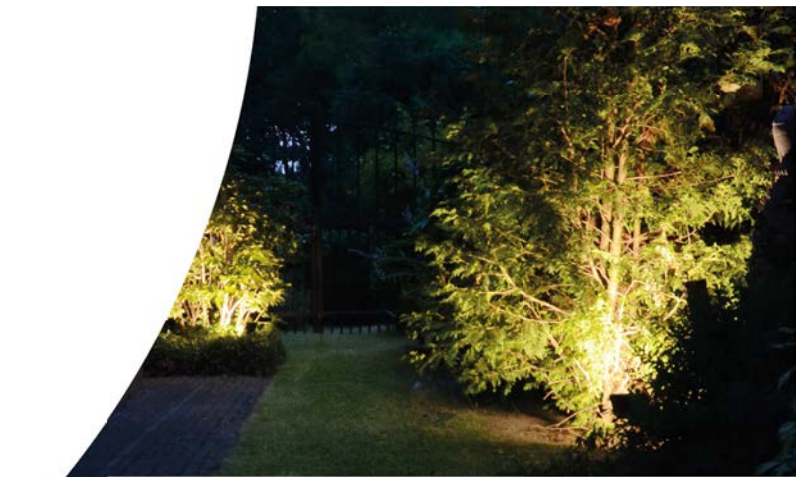


LEDflood-E-Re250-280-Bracket



LEDflood-E Sensor





LED Floodlight EcoMax G2 Low Power

- Compact aluminium design with clipless cover
- IP66 protection level against water and dust
- High energy saving compared to halogen and high pressure sodium lamps
- Also available in 3000K and white housing
- Compatible brackets and ground spikes available
- IP65 daylight and motion sensor accessory available



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
On-Off								
543017020400	LEDflood-E2 Re113-10W-3000-BL	Halogen 50W	10	1050	105	3000	100 °	0.20
543006000600	LEDflood-E2 Re113-10W-4000-BL	Halogen 50W	10	1050	105	4000	100 °	0.20
543006000700	LEDflood-E2 Re127-19W-3000-BL	Halogen 100W	19	1900	100	3000	100 °	0.25
543006000800	LEDflood-E2 Re127-19W-4000-BL	Halogen 100W	19	1900	100	4000	100 °	0.25
543017020500	LEDflood-E2 Re113-10W-3000-WH	Halogen 50W	10	1050	105	3000	100 °	0.20
543006000900	LEDflood-E2 Re113-10W-4000-WH	Halogen 50W	10	1050	105	4000	100 °	0.20
543006001000	LEDflood-E2 Re127-19W-3000-WH	Halogen 100W	19	1900	100	3000	100 °	0.25
543006001100	LEDflood-E2 Re127-19W-4000-WH	Halogen 100W	19	1900	100	4000	100 °	0.25

For more technical information, please go to the appendix.

Accessories



543098021900
LEDFixture-IP68-Connector-Kit-3



140065060
LEDflood-E-Motion-Daylight-Sensor



140060790
LEDflood-E-Re150-Bracket-BL

140060791
LEDflood-E-Re150-Bracket-WH



140060789
LEDflood-E-Re150-Spike-BL



599000004600
LEDStreet-SE-ExtensionCable

Bracket extendable up to 60 cm.

Technical Specifications

Lifetime (L70)	50,000 h
Lifetime (L80)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	4
Dimmability	On-Off
Finishing	White / Black
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP66
Impact strength	IK07
Protection class	I
Risk group (EN 62471)	RG1
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	2.5 kV

Electrical Supply

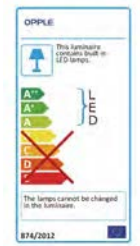
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	See Appendix 4

Mechanical Properties

Material housing	Die-casted Aluminum
Optical material	Polycarbonate
Cover material	Polycarbonate (PC)

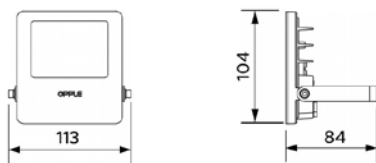
Ambient Conditions

Operating temperature	-30-+50 °C
Application temperature	+25 °C
Storage environment	-30-+60 °C

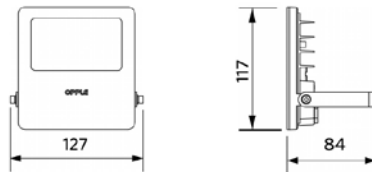


Dimensional Drawing (mm)

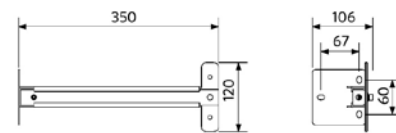
LEDflood-E2 Re113



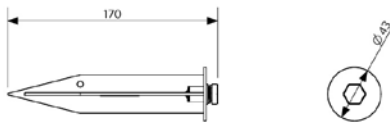
LEDflood-E2 Re127



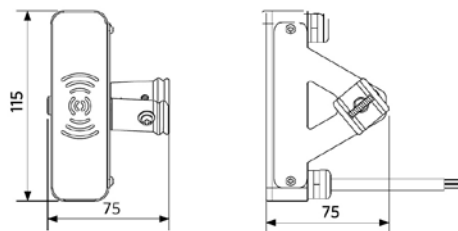
LEDflood-E-Re150-Bracket



LEDflood-E-Re150-Spike



LEDflood-E Sensor





LED Floodlight Basic

- High energy savings compared to traditional Floodlights
- Replacement of halogen and up to 150W HID
- Wide power range from 10W to 70W
- Slim and compact body design due to integrated driver
- IP65 & IK07 for both indoor and outdoor applications
- Compatible brackets and ground spikes available
- IP65 daylight and motion sensor accessory available



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Surge protection	Weight (kg/pc)
543017000200	LEDflood-B Re125-10W-4000	Halogen 50W	10	800	80	4000	100 °	0.5 kV	0.30
543017000300	LEDflood-B Re170-20W-4000	Halogen 100W	20	1700	85	4000	100 °	1 kV	0.50
543017000400	LEDflood-B Re191-30W-4000	HID 50W	30	2500	85	4000	100 °	1 kV	0.65
543017009900	LEDflood-B Re217-50W-4000	HID 70W	50	4250	85	4000	100 °	1 kV	1.25
543017010000	LEDflood-B Re266-70W-4000	HID 150W	70	5950	85	4000	100 °	1 kV	1.53

For more technical information, please go to the appendix.

Accessories



543098021900
LEDFixture-IP68-Connector-Kit-3



140065060
LEDflood-E-Motion-Daylight-Sensor



140060790
LEDflood-E-Re150-Bracket-BL

140060793
LEDflood-E-Re250-280-Bracket-BL



140060789
LEDflood-E-Re150-Spike-BL

140060792
LEDflood-E-Re250-280-Spike-BL



599000004600
LEDStreet-SE-ExtensionCable

Sensor range 10m.

Bracket extendable up to 60 cm.

Technical Specifications

Lifetime (L70)	30,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	6
Dimmability	On-Off
Finishing	Black
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK07
Protection class	I / II (10W, 20W, 30W)
Risk group (EN 62471)	RG0
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

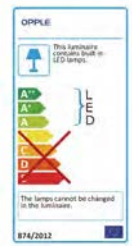
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

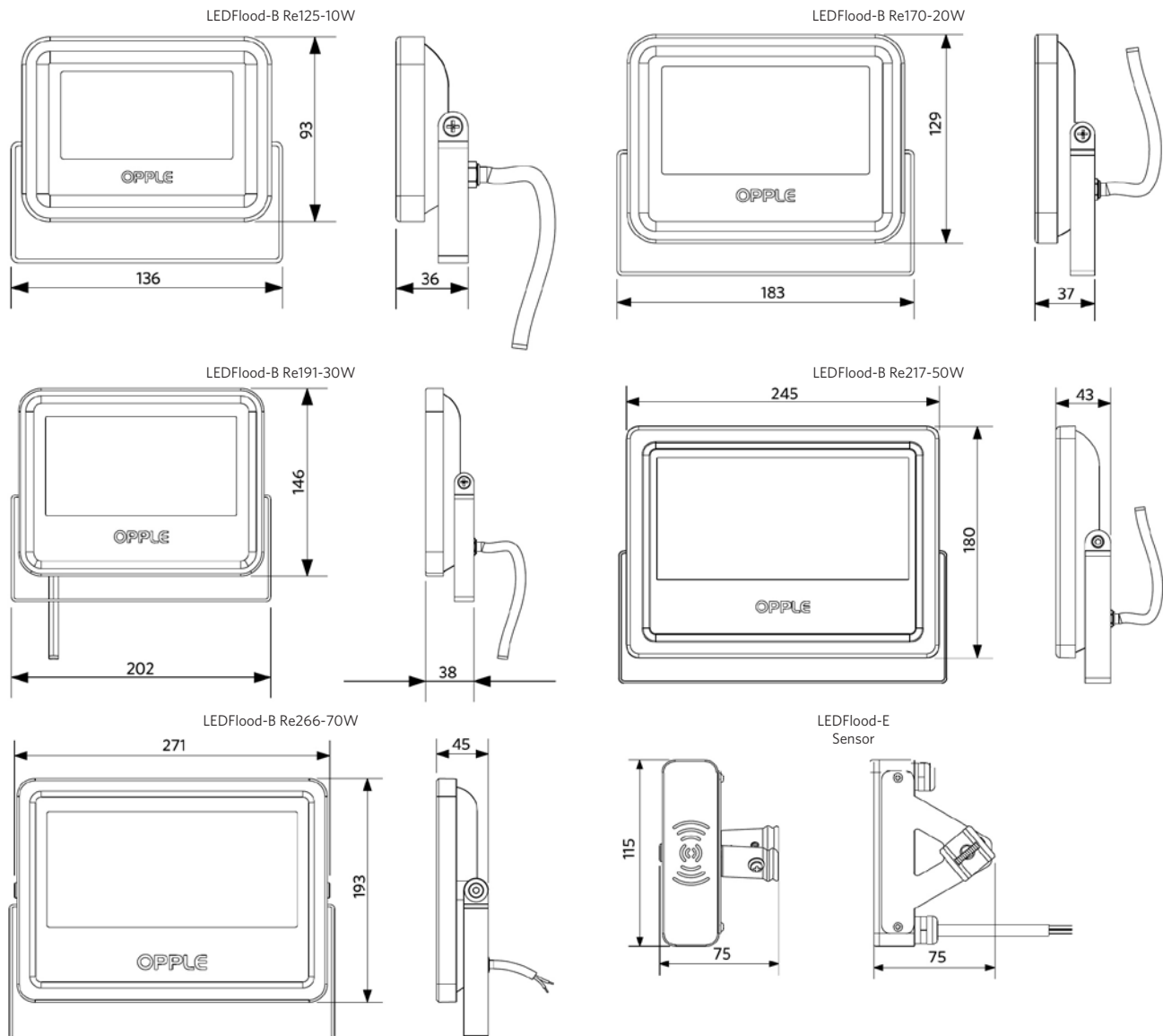
Material housing	PPS (10W, 20W, 30W) / Aluminum (50W, 70W)
Optical material	Polycarbonate
Cover material	PC + Glass

Ambient Conditions

Operating temperature	-30-+50 °C
Application temperature	+25 °C
Storage environment	-40-+80 °C



Dimensional Drawing (mm)





Smart 10
Indoor 24
Outdoor 114
Lamps & Tools 136
Technical Data 154
Glossary 176





LED Filament A60

- Classic light bulb shape ensures an easy replacement
- Instant 100% light when switched on and no startup time
- No UV / IR radiance so there is less risk of damage
- 4000K available for Frosted A60 lamps
- Up to 86% less energy consumption than traditional bulbs



Specifications

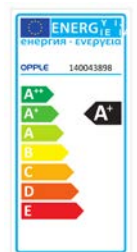
Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
500010001400	LED-E-A60-FILA-E27-4W-2700K-CL	GLS 40W	4	470	118	2700	A+	0.03
500010001500	LED-E-A60-FILA-E27-7W-2700K-CL	GLS 60W	7	806	115	2700	A+	0.03
Dimmable (Triac)								
500010001100	LED-E-A60-FILA-E27-4.5W-DIM-2700K-CL	GLS 40W	4.5	470	104	2700	A+	0.03
500010001900	LED-E-A60-FILA-E27-4.5W-DIM-2700K-FR	GLS 40W	4.5	470	104	2700	A+	0.03
500010001300	LED-E-A60-FILA-E27-4.5W-DIM-4000K-FR	GLS 40W	4.5	470	104	4000	A+	0.03
500010001000	LED-E-A60-FILA-E27-7W-DIM-2700K-CL	GLS 60W	7	806	115	2700	A+	0.03
500010001200	LED-E-A60-FILA-E27-7W-DIM-2700K-FR	GLS 60W	7	806	115	2700	A+	0.04
500010000400	LED-E-A60-FILA-E27-7W-DIM-4000K-FR	GLS 60W	7	806	115	4000	A+	0.04

See appendix for dimmer compatibility list.

Technical Specifications	
Lifetime (L70)	15,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	360 °
Finishing	Clear / Frosted
Colour rendering index CRI	≥ 80

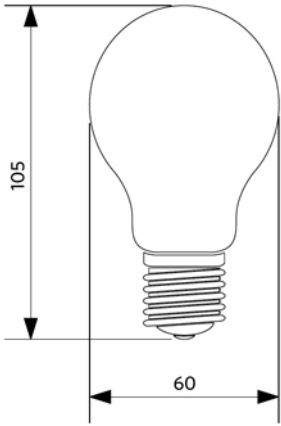
Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Ambient Conditions	
Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)

LED-E-A60-FILA





LED Filament B35

- Classic light bulb shape ensures an easy replacement
- Instant 100% light when switched on and no startup time
- No UV / IR radiance so there is less risk of damage
- Up to 86% less energy consumption than traditional bulbs



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
500011000500	LED-E-B35-FILA-E14-2.8W-2700K-CL	GLS 25W	2.8	250	89	2700	A+	0.01
500011000300	LED-E-B35-FILA-E14-4W-2700K-CL	GLS 40W	4	470	118	2700	A+	0.01
Dimmable (Triac)								
500011000400	LED-E-B35-FILA-E14-2.8W-DIM-2700K-FR	GLS 25W	2.8	250	89	2700	A+	0.02
500011000200	LED-E-B35-FILA-E14-4.5W-DIM-2700K-CL	GLS 40W	4.5	470	104	2700	A+	0.01
500011000100	LED-E-B35-FILA-E14-4.5W-DIM-2700K-FR	GLS 40W	4.5	470	104	2700	A+	0.02

See appendix for dimmer compatibility list.

Technical Specifications

Lifetime (L70)	15,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	360 °
Finishing	Clear / Frosted
Colour rendering index CRI	≥ 80

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

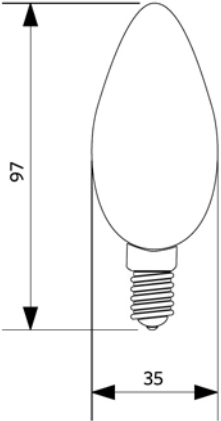
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)

LED-E-B35-FILA



SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY





LED Filament Mini Globe

- Classic light bulb shape ensures an easy replacement
- Instant 100% light when switched on and no startup time
- No UV / IR radiance so there is less risk of damage
- Up to 86% less energy consumption than traditional bulbs



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
500010000600	LED-E-P45-FILA-E14-2.8W-2700K-CL	GLS 25W	2.8	250	89	2700	A+	0.01
500010001800	LED-E-P45-FILA-E14-4W-2700K-CL	GLS 40W	4	470	118	2700	A+	0.01
500010002000	LED-E-G45-FILA-E27-2.8W-2700K-CL	GLS 25W	2.8	250	89	2700	A+	0.01
Dimmable (Triac)								
500010000500	LED-E-P45-FILA-E14-2.8W-DIM-2700K-FR	GLS 25W	2.8	250	89	2700	A+	0.02
500010000800	LED-E-G45-FILA-E27-2.8W-DIM-2700K-FR	GLS 25W	2.8	250	89	2700	A+	0.02
500010001700	LED-E-P45-FILA-E14-4.5W-DIM-2700K-CL	GLS 40W	4.5	470	104	2700	A+	0.01
500010000700	LED-E-P45-FILA-E14-4.5W-DIM-2700K-FR	GLS 40W	4.5	470	104	2700	A+	0.02
500010000900	LED-E-G45-FILA-E27-4.5W-DIM-2700K-CL	GLS 40W	4.5	470	104	2700	A+	0.02
500010001600	LED-E-G45-FILA-E27-4.5W-DIM-2700K-FR	GLS 40W	4.5	470	104	2700	A+	0.02

See appendix for dimmer compatibility list.

Technical Specifications

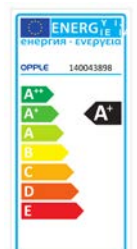
Lifetime (L70)	15,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	360 °
Finishing	Clear / Frosted
Colour rendering index CRI	≥ 80

Electrical Supply

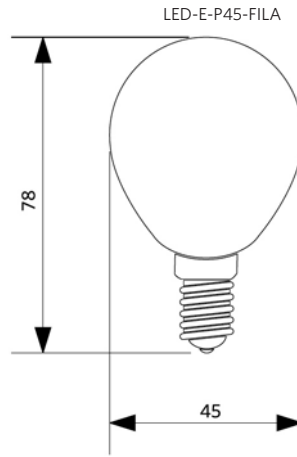
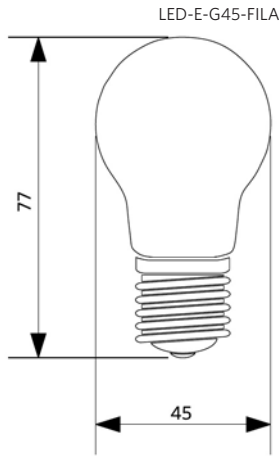
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

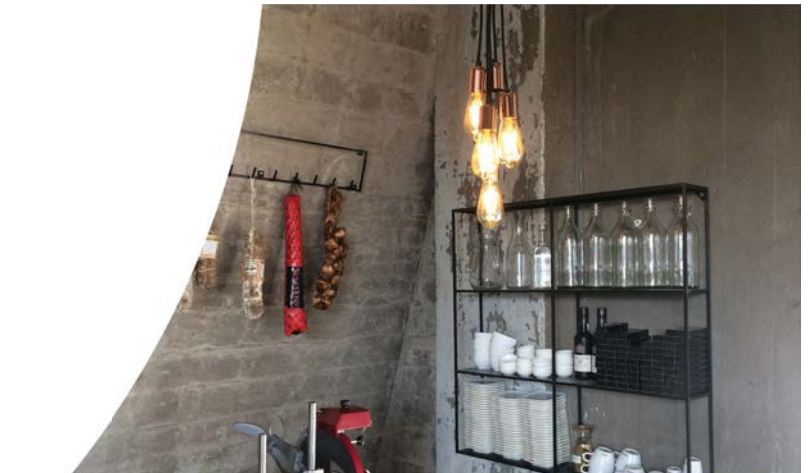
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)





LED Filament ST64

- Classic light bulb shape ensures an easy replacement
- Instant 100% light when switched on and no startup time
- No UV / IR radiance so there is less risk of damage
- Up to 86% less energy consumption than traditional bulbs
- Available in 2200K and 2700K



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
Dimmable (Triac)								
500012000200	LED-E-ST64-FILA-E27-4.5W-DIM-2200K-CL	GLS 40W	4.5	400	89	2200	A+	0.05
500012000300	LED-E-ST64-FILA-E27-4.5W-DIM-2700K-CL	GLS 40W	4.5	470	104	2700	A+	0.05
500012000400	LED-E-ST64-FILA-E27-7W-DIM-2200K-CL	GLS 60W	7	700	100	2200	A+	0.05
500012000100	LED-E-ST64-FILA-E27-7W-DIM-2700K-CL	GLS 60W	7	806	115	2700	A+	0.05

See appendix for dimmer compatibility list.

Technical Specifications

Lifetime (L70)	15,000 h
On-/Off-cycles	100,000
Dimmability	Triac
Beam angle	360 °
Finishing	Clear
Colour rendering index CRI	≥ 80

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

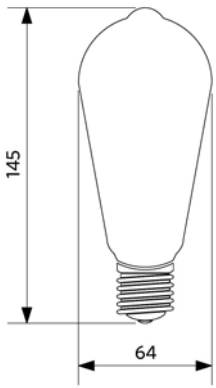
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C



Dimensional Drawing (mm)

LED-E-ST64-FILA



SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY





LED Reflector EcoMax GU10

- Full retrofit of existing halogen GU10 lamps
- Dimmable versions available up to 575lm
- Available in 3000K and 4000K
- Light silver coloured
- No UV/IR radiation
- Significantly lower heat output than halogen, avoiding discolouration and risk of damaging goods
- Up to 87% lower energy consumption than halogen



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
Dimmable (Triac)								
140060948	LED-E-GU10-3,5W-3000K-36D-DIM	Halogen 35W	3.5	245	70	3000	A+	0.03
140060952	LED-E-GU10-3,5W-4000K-36D-DIM	Halogen 35W	3.5	260	74	4000	A+	0.03
140060949	LED-E-GU10-5,2W-3000K-36D-DIM	Halogen 50W	5.2	350	67	3000	A+	0.04
140060953	LED-E-GU10-5,2W-4000K-36D-DIM	Halogen 50W	5.2	360	69	4000	A+	0.04
140060951	LED-E-GU10-7,5W-3000K-36D-DIM	Halogen 75W	7.5	565	75	3000	A+	0.06
140060955	LED-E-GU10-7,5W-4000K-36D-DIM	Halogen 75W	7.5	575	77	4000	A+	0.06

See appendix for dimmer compatibility list.

Technical Specifications

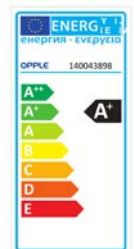
Lifetime (L70)	15,000 h
On-/Off-cycles	50,000
Dimmability	Triac
Beam angle	36 °
Finishing	Silver
Colour rendering index CRI	≥ 80

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

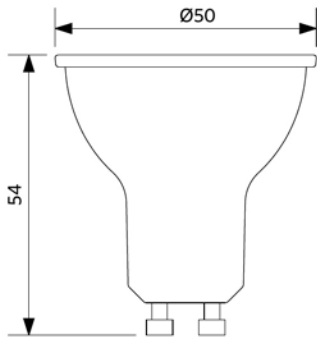
Ambient Conditions

Operating temperature	-20-+40 °C
Application temperature	+25 °C
Storage environment	-25-+50 °C

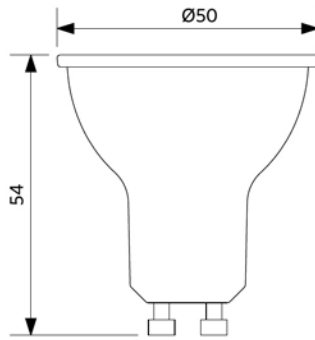


Dimensional Drawing (mm)

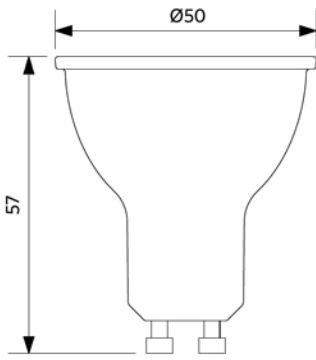
LED-E-GU10-3,5W



LED-E-GU10-5,2W



LED-E-GU10-7,5W





LED T8 Tube

- Single-ended full IEC compliant with patented driver
- Retrofit existing T8 lamps with EM ballast installations ONLY!
- No warm-up time, 100% light instantly when switched on
- Full glass
- High efficacy up to 134 lm/W
- Up to 62% lower energy consumption than fluorescent



SAFE AND EASY INSTALLATION: ONLY USE WITH LED DUMMY STARTER.
Tubes are NOT suitable for serial installation.

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
140062610	LED P T8 glass 600 8W 100pct 3000K CT	TL 1x18W	8	1050	131	3000	A++	0.11
140062611	LED P T8 glass 600 8W 100pct 4000K CT	TL 1x18W	8	1050	131	4000	A++	0.11
140062612	LED P T8 glass 600 8W 100pct 6500K CT	TL 1x18W	8	1050	131	6500	A++	0.11
140062613	LED P T8 glass 1200 16W 100pct 3000K CT	TL 1x36W	16	2100	131	3000	A++	0.21
140062614	LED P T8 glass 1200 16W 100pct 4000K CT	TL 1x36W	16	2100	131	4000	A++	0.21
140062615	LED P T8 glass 1200 16W 100pct 6500K CT	TL 1x36W	16	2100	131	6500	A++	0.21
140062616	LED P T8 glass 1500 23W 100pct 3000K CT	TL 1x58W	23	3100	134	3000	A++	0.26
140062617	LED P T8 glass 1500 23W 100pct 4000K CT	TL 1x58W	23	3100	134	4000	A++	0.26
140062618	LED P T8 glass 1500 23W 100pct 6500K CT	TL 1x58W	23	3100	134	6500	A++	0.26

Single-ended connection



Technical Specifications

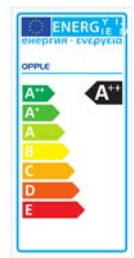
Lifetime (L70)	50,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	220 °
Finishing	White
Colour rendering index CRI	≥ 80
Fitting	G13

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

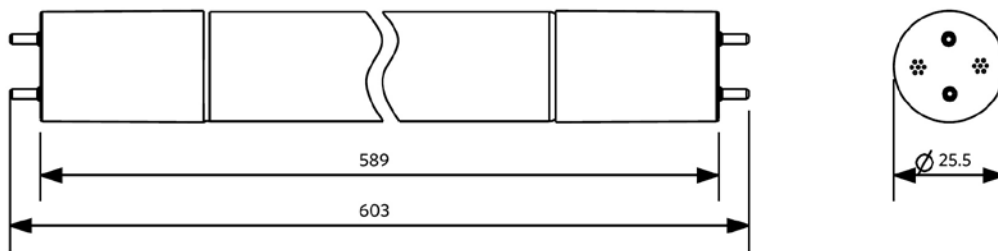
Ambient Conditions

Operating temperature	-25~+45 °C
Application temperature	+25 °C
Storage environment	-25~+50 °C

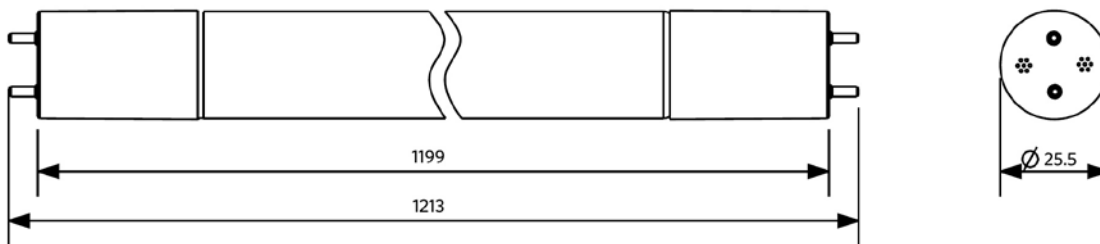


Dimensional Drawing (mm)

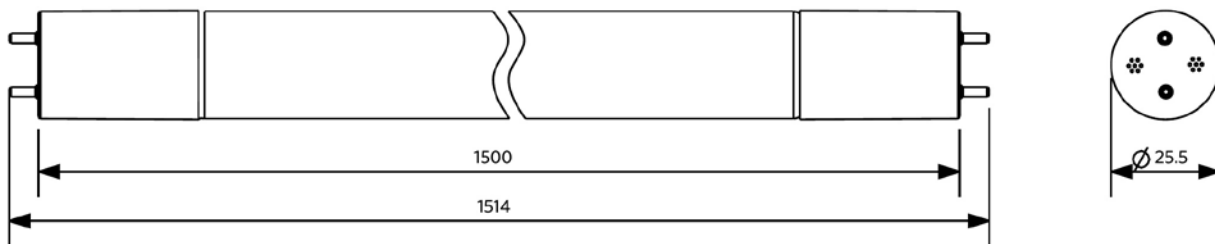
LED P T8 glass 600

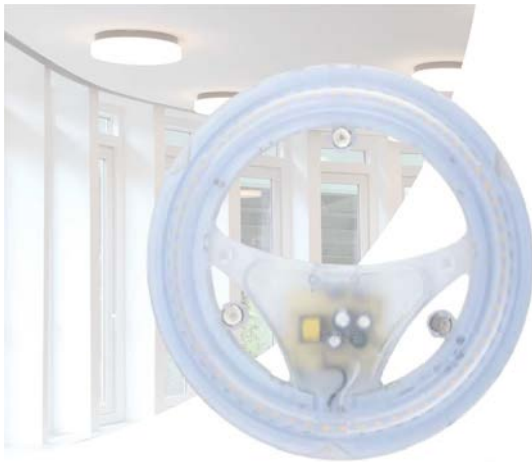


LED P T8 glass 1200



LED P T8 glass 1500





LED Module Clio G2

- Fits well in slim ceiling luminaires up to 550mm in diameter
- Easy and flexible installation
- Shadow free, homogeneous light diffusion and 100% light instant on
- High efficacy up to 100 lm/W
- Integrated driver, connects directly to 220-240V
- Including magnets and connection box
- Movement detector accessory available for 12W & 16W



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
On-Off								
140066573	LED E C module 12W 2700K Clio CT	GLS 75W	12	1000	82	2700	A+	0.10
140066574	LED E C module 12W 4000K Clio CT	GLS 75W	12	1100	91	4000	A+	0.10
140066575	LED E C module 16W 2700K Clio CT II	GLS 100W	16	1400	87	2700	A+	0.17
140066576	LED E C module 16W 4000K Clio CT II	GLS 100W	16	1600	100	4000	A+	0.17
Dimmable (Triac)								
140066204	LED E C module 22W DIM 2700K Clio CT	CFL TC-DD/PL-Q 28W	22	1800	83	2700	A+	0.24
140066205	LED E C module 22W DIM 4000K Clio CT	CFL TC-DD/PL-Q 28W	22	2000	91	4000	A+	0.24
140066206	LED E C module 36W DIM 2700K Clio CT	CFL TC-DD/PL-Q 38W	36	2800	78	2700	A	0.49
140066207	LED E C module 36W DIM 4000K Clio CT	CFL TC-DD/PL-Q 38W	36	3000	83	4000	A+	0.49

See appendix for dimmer compatibility list. For more technical information, please go to the appendix.

Accessories



140060553
LED Module sensor CT

Sensor only for 12W and 16W.
Sensor range 12m.

Technical Specifications

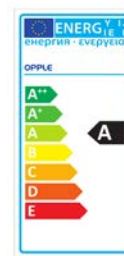
Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	150 °
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Protection class	II
With control gear	Yes

Electrical Supply

Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Ambient Conditions

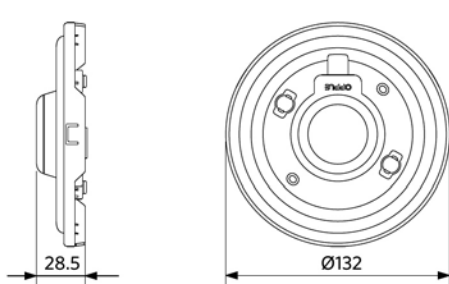
Operating temperature	-20~+40 °C
Application temperature	+25 °C
Storage environment	-25~+50 °C



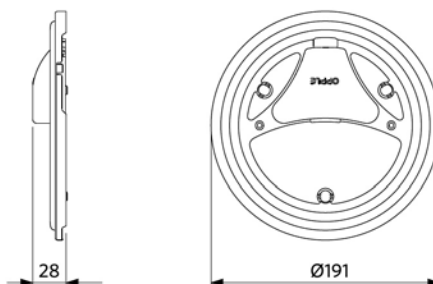
Dimensional Drawing (mm)

LED E C module 12W

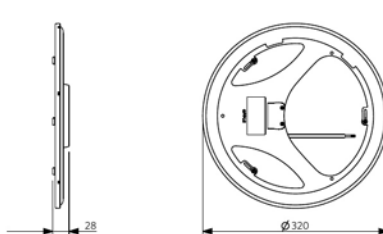
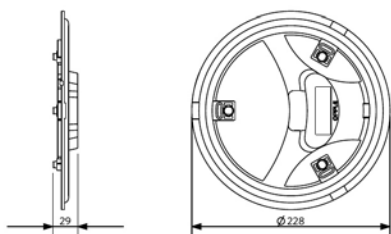
LED E C module 16W



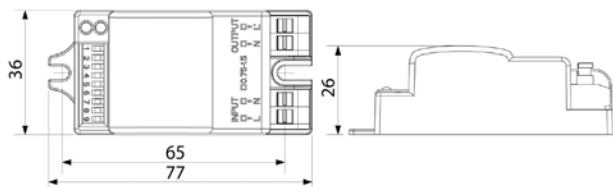
LED E C module 22W

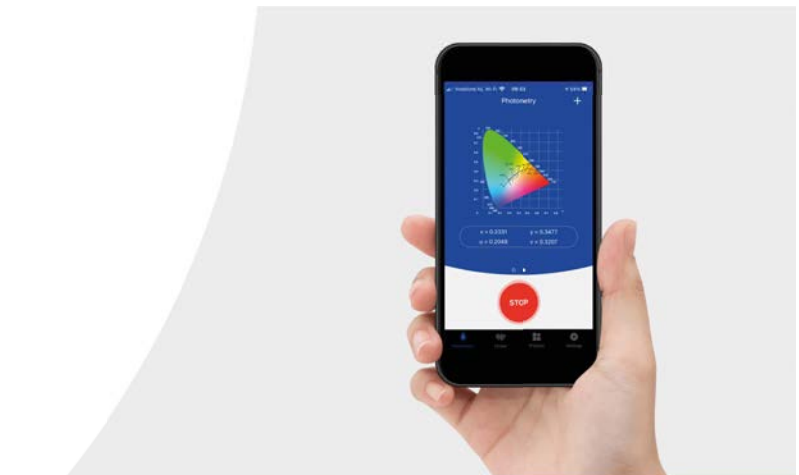


LED E C module 36W



LED Module sensor CT





LED Light Master G3

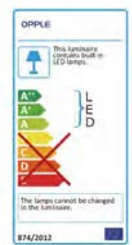
- Easy connection via bluetooth
- Simple solution for measurement of light level (lux), colour temperature (Kelvin), colour rendering (CRI) and flicker
- Compatible with iOS and Android
- Rechargeable with micro USB (cable not included)
- Stylish protective bag included



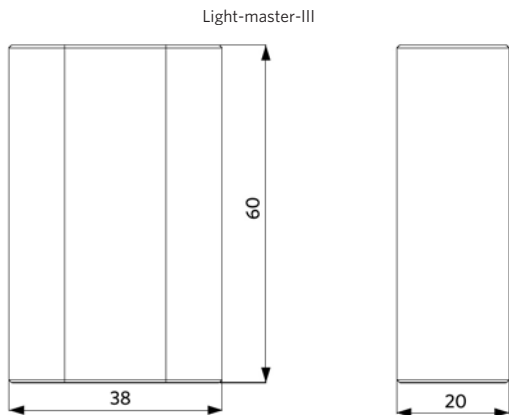
Specifications

Item Code	Item Description
599000032700	Light-master-III

Technical Specifications	
Rechargeable	Yes - micro USB
Lux range	0-50000 lx
Color temperature range	2000-25000 K
Accuracy	~ 5% deviation
Operating temperature	-10-+40 °C



Dimensional Drawing (mm)



Google Play Store



Apple App Store



Accessories

Junction Box

- Stylish connection box for easy wiring of luminaires
- Completely screwless installation
- Included strain relief on the input and output side

Suitable for:

- All recessed panels
- All recessed downlights
- All recessed spots

Length	103.4 mm
Width	43 mm
Height	26 mm



Product Code: 542098030700

LED Module sensor CT

- Sensor accessory for luminaires
- Detection range: 12m

Suitable for:

- LED Ceiling Light Apollo
- LED Linear Ecomax
- LED Module Clío G2

Length	76.7 mm
Width	35.5 mm
Height	25.5 mm



Product Code: 140060553

LED Flood-E-Motion-Daylight-Sensor

- Motion and daylight sensor for luminaires
- Detection range: 6m

Suitable for:

- LED Floodlight Ecomax G2 Medium Power
- LED Floodlight Ecomax G2 Low Power
- LED Floodlight Basic

Length	115 mm
Width	73.7 mm
Height	74.8 mm



Product Code: 140065060





















Smart 10
Indoor 24
Outdoor 114
Lamps & Tools 136
Technical Data 154
Glossary 176



Dimming Compatibility List





Compatible	No flicker, no noise
Semi-compatible	No flicker, possible noise
Incompatible	Possible flicker, possible noise
Untested	

Dimmer brand	Type	Max. load	Spot RA HQ Dim		Downlight HZ ^{DIM}				Spot Ava G2		Spot 3C Compact
			7W	8W	7W	10W	13W	16W	5W	7W	12W
											
ABB	2250 AJ-513	60 - 600W		2-11					2-6	2-6	
Berker	286610	20-500W	1-13	1-5	1-13	1-10	1-7	1-6			
Berker	2819	60-400W		1-10							1-9
Berker	2830 10	60-400W	1-10			1-8	1-6	1-5			1-9
Bticino	L-N-NT4411N	3-400W	1-11	1-11	1-11	1-11	1-6	1-5			1-5
BULL	B6GD100	500W				1-10	1-7	1-6			1-13
BUSCH-JAEGER	6523U	LED typical 2 ... 100W	1-13	1-11	1-13	1-10	1-7	1-6	1-14	1-11	1-7
BUSCH-JAEGER	6513 U-102	40 - 420W	1-11	1-9	1-11	1-8		1-5			1-11
BUSCH-JAEGER	2247U	20 - 500W		1-11	1-13	1-10	1-7	1-6			1-11
BUSCH-JAEGER	6524U	LED 2 - 100 W	1-13	2-5	1-13	1-10	1-7	1-6			
BUSCH-JAEGER	2250U	600W	1-16	2-11	1-16	1-12	1-9	1-7			1-14
BUSCH-JAEGER	6591 U-101-500	420W	1-13	1-12	1-11	1-11	1-7	1-6			
BUSCH-JAEGER	6523 UR-103	2-400W	1-11	1-10	1-11	1-11	1-6	1-5	1-11	1-9	
Busch	6523U-102	10-250W/LED2-100W	1-13		1-13	1-10	1-7	1-6			1-9
Busch	6526U	10-200W/LED2-100W					1-7				
Eltako	EUD61NPN-UC	400W		1-9							
EFAPPEL	21215	3-50W	1-6	1-6	1-6	1-5	1-3	1-3			
EFAPPEL	21214	3-35W	1-4	1-4	1-4	1-3	1-2	1-2	1-5	1-4	1-2
EFAPPEL	21216	3-85W	1-11	1-10	1-11	1-8	1-6	1-5			
EPV	PAB 315	20-315W	1-8	1-7	1-8	1-6	1-4	1-4			1-11
Feller	40200 LED FMI 61	4-200W/VA	1-5	1-5	1-5	1-3	1-3	1-2		1-5	
Feller	40600 RL FIM61	20-300W/VA	1-8	1-7	1-7	1-5	1-4	1-3		1-7	1-13
Feller	40300 RC FMI 61	40-600VA/W	1-16	1-7							1-9
Feller	40600 RLC FMI 61	20-600VA/W		1-15	1-15	1-11	1-8	1-7		1-12	1-13
GIRA	UNIV 420WV	50 VA - 420 VA		1-9							
GIRA	HAL/LED 500VA	20 VA - 500 VA									
GIRA	117600/104	50-420W	1-11		1-11	1-8	1-6	1-5			1-13
GIRA	226200/101	20-500W/LED3-100W	1-13		1-13	1-10	1-7	1-6			1-8
GIRA	0302 00/101	60-600W	1-16		1-16	1-12	1-9	1-7			
GIRA	0307 00/102	20-525W	1-14		1-14	1-10		1-6	1-15	1-11	1-11
GIRA	24500 00/101	3-60W									
JUNG	225 NV DE	20-500W/LED3-100W	1-13	1-3	1-13	1-10	1-7	1-6			
JUNG	266 G DE	60-600W	1-16	1-3	1-16	1-12	1-9	1-7			
JUNG	1731DD	3-420VA									
JUNG	1730DD	3-210VA									
Klemko	891040	315W		1-5							
Kopp	809500008	40-400W/VA									
Legrand	617 030	40-600w	1-16			1-12		1-7			
merten	MEG5134-0000	4-400W	1-10	1-10	1-11	1-8	1-6	1-5			1-13
NIKO	310-0190X	5-325W	1-8	1-13	1-9	1-6	1-4	1-4			1-13
NIKO	310-02900	3-300W	1-8		1-8	1-6	1-4	1-3	1-8	1-7	
NIKO	310-0490X	4-200W	1-6	1-5	1-6	1-6	1-3	1-3			
NIKO	310-0390X	3-200W	1-5	1-5	1-5	1-5	1-3	1-2	1-5	1-5	
NIKO	310-0280X	2-100W	1-3	1-12	1-2	1-3	1-7	1			1-7
NVC	EP8D11A BLB5	400W	1-10	1-9	1-11	1-8	1-6	1-5			1-11
OPUS	852,397	7-110W/LED3-35W	1-4	1-4	1-4	1-3	1-2	1-2	1-5	1-3	1-2
PEHA	TRONIC-DIMMER 435 HAB	20-600W	1-16	1-10	1-16	1-12	1-7	1-7	1-17	1-2	1-8
PEHA	D 431HAN LED	6-120W/LED6-60W	1-8	1-7	1-8	1-6	1-4	1-4	1-8	1-7	1-7
TRUMP	DIMMAX 420SL	400W		1-10							
Panasonic	BS EN 60669-2-1	150-500W				1-10	1-7	1-6			1-11
Panasonic	WEG578153	80-500W	1-13		1-13	1-10	1-7	1-6			1-11
SIEMENS	5UH8222-3NC01	40-500W	1-13	1-11	1-13	1-10	1-7	1-6	1-14		1-13

Dimmer brand	Model	Type	Max. load	Filament												
				A60	A60	G45	G45	P45	P45	B35	B35	ST64	ST64	ST64	ST64	
				470lm	806lm	250lm	470lm	250lm	470lm	250lm	470lm	470lm	806lm	400lm	700lm	
																
Berker	286610	RL	500W	1-20	1-20	2-10	1-20	2-10	1-20	2-10	1-20	1-20	1-20	1-20	1-20	1-20
Berker	2819	R	400W	1-20	1-20	1-20	1-20		1-20		1-20	1-20	1-20	1-20	1-20	1-20
Berker	283010	R	400W	1-20	1-20	1-12	1-20	1-12	1-20	1-12	1-20	1-20	1-20	1-20	1-20	1-20
Bticino	N4411N		400W/75W (LED)	1-20	1-10	1-16	1-20	2-20	1-20	2-20	1-20	1-20	1-10	1-20	1-10	1-10
Busch Jaeger	2247U	RL	500W	1-20	1-20	2-20	1-20	2-20	1-20	2-20	1-20	1-20	1-20	1-20	1-20	1-20
Busch Jaeger	2250U	R	600W	1-20	1-20	1-12	1-20	1-12	1-20	1-12	1-20	1-20	1-20	1-20	1-20	1-20
Busch Jaeger	6513 U-102	RC	40-420W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Busch Jaeger	6523U	R,L	100W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Busch Jaeger	6523 U-102	R,C	250W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Busch Jaeger	6591 U-101-500		60-420W	1-20	1-18	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-18	1-20	1-18	1-18
Busch Jaeger	6523 UR-103		2-400W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Druck	8095	RL	400W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
EFAPPEL	21212		250W/85W (LED)	1-18	1-12	1-20	1-18		1-20		1-20	1-18	1-12	1-18	1-12	1-12
EFAPPEL	21214		110W/35W (LED)	1-7	1-5	1-7	1-7	1-12	1-12	1-12	1-12	1-7	1-5	1-7	1-5	1-5
EFAPPEL	21215		150W/50W (LED)	2-11	4-7		2-11		1-17		1-17	2-11	4-7	2-11	4-7	4-7
EFAPPEL	21216		5-150W (LED)					1-20	1-10	1-20	1-10					
EPV	PAB 315		315W	1-20	2-12	2-20	1-20		1-20		1-20	1-20	2-12	1-20	2-12	2-12
Feller	40200 LED FMI 61		400W	1-20	1-16	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-16	1-20	1-16	1-16
Feller	40600 RL FIM61		40-600W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Feller	40300 RC FMI 61		20-300W	1-20	1-16	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-16	1-20	1-16	1-16
Feller	40600 RLC FMI 61		20-600W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Gira	1176 00/104	R,L,C	420W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Gira	2262 00/101	R,L	500W	1-20	1-20	2-20	1-20	2-20	1-20	2-20	1-20	1-20	1-20	1-20	1-20	1-20
Gira	030200	R	600W	1-20	1-20	1-12	1-20					1-20	1-20	1-20	1-20	1-20
Gira	030700	R,C	525W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Jung	266 GDE	R	60-600W		1-20	1-20		1-20		1-20			1-20		1-20	1-20
Jung	Licht-Management 225 NV DE	RL	100W	1-20	1-20	2-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Legrand	617 030		40-600W	6-20	7-20	4-20	6-20	4-20	1-20	4-20	1-20	6-20	7-20	6-20	7-20	7-20
Legrand	665714		400W/75W (LED)	1-20	1-10	1-16	1-20	2-20	1-20	2-20	1-20	1-20	1-10	1-20	1-10	1-10
merten	MEG5134-0000		4-400W	2-20	2-16	2-20	2-20	1-20	1-20	1-20	1-20	2-20	2-16	2-20	2-16	2-16
NIKO	310-02900		200W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
NIKO	310-01901	R,L,C,CFli	325W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
NIKO	310-0490X		4-200W	1-12	1-8	1-20	1-12	1-20	1-12	1-20	1-12	1-12	1-8	1-12	1-8	1-8
NIKO	310-0280X		2-100W	1-6	1-4	1-12	1-6	1-12	1-6	1-12	1-6	1-6	1-4	1-6	1-6	1-4
NVC	EP8D11A BLB5		400W	4-20	2-20	4-20	4-20	4-20	1-20	4-20	1-20	4-20	2-20	4-20	4-20	2-20
PEHA	431 HAN LED		120W/60W (LED)	1-13	1-8	1-13	1-13	1-20	1-20	1-20	1-20	1-13	1-8	1-13	1-8	1-8
PEHA	435 HAB		20-525W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Panasonic	BS EN 60669-2-1		150W-500W	1-4	5-12		1-4	3-8	1-8	3-8	1-8	1-4	5-12	1-4	5-12	5-12
Panasonic	WEG578153		80-500W	1-20	4-20		1-20	3-9	1-9	3-9	1-9	1-20	4-20	1-20	4-20	4-20
SIEMENS	5UH8222-3NC01		40W-500W	1-20	1-20	1-20	1-20	3-20	1-20	3-20	1-20	1-20	1-20	1-20	1-20	1-20
Wintop	13212	L	300W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
Wintop	13512	RC	500W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20

Dimming compatibility Level

Compatible	No flicker, no noise
Semi-compatible	No flicker, possible noise
Incompatible	Possible flicker, possible noise
Untested	

Dimmer brand	Model	Type	Max. load	GU10			LED Module Clio GEN2		LED Ceiling Light Apollo	T5 Batten DIM	
				3,2W	5,2W	7,5W	22W	36W	22W	9W	18W
											
Berker	286610	RL	500W	1-10	1-3	Incompatible	1-4	1-3	1-4	1-6	1-3
Berker	2819	R	400W	1-7	1-4	Incompatible	1-1	1-1	1-1	1-3	1-3
Berker	283010	R	400W	1-10	1-3	1-10	1-2	1-1	1-2	1-3	1-3
Busch Jaeger	2247U	RL	500W	1-10	1-3	1-10	1-4	1-3	1-4	1-6	1-6
Busch Jaeger	2250U	R	600W	1-10	1-5	1-10	1-5	1-3	1-5	1-6	1-5
Busch Jaeger	6513 U-102	RC	40-420W	2-10	1-10	1-10	1-6	1-4	1-6	1-9	1-5
Busch Jaeger	6523U	R,L	100W	1-10	1-5	1-10	1-1	1-2	1-1	1-1	1-1
Busch Jaeger	6523 U-102	R,C	250W	1-10	1-10	1-10	1-1	1-1	1-1	1-1	1-1
Bticino	N4411N		400W/75W(LED)	1-20	1-14	1-10	1-3	1-2	1-3		
BULL	B6GD100		200W								
Druck	8095	RL	400W	1-10	1-10	1-10	1-2	1-2	1-2	1-3	1-3
EFAPEL	21212		250W/85W(LED)	1-20	Incompatible	Incompatible	1-1	1-1	1-1		
EFAPEL	21214		110W/35W(LED)	1-10	Incompatible	Incompatible	Incompatible	Incompatible	Incompatible		
EFAPEL	21215		150W/50W(LED)	Incompatible	Incompatible	Incompatible	1-2	Incompatible	1-2		
EFAPEL	21216		5-150W(LED)	Incompatible	Incompatible	Incompatible	Incompatible	Incompatible	Incompatible		
EPV	PAB 315		315W	1-8	1-13	1-11					
Feller	40200 LED FMI 61		400W	1-11	1-17	1-14	1-5	1-3	1-5		
Feller	40600 RL FIM61		40-600W	1-5	1-7	1-9	1-4	1-2	1-4		
Feller	40300 RC FMI 61		20-300W	1-11	1-17	1-14	1-5	1-3	1-5		
Feller	40600 RLC FMI 61		20-600W	1-8	1-7	1-9	1-4	1-3	1-4		
Gira	1176 00/104	R,L,C	420W	1-10	1-10	1-10	1-2	1-2	1-2	1-18	1-12
Gira	2262 00/101	R,L	500W	1-10	1-10	1-10	1-5	1-3	1-5	1-6	1-6
Gira	030200	R	600W	1-10	1-3	1-10	1-5	1-3	1-5	1-6	1-6
Gira	030700	R,C	525W	1-10	1-10	1-10	1-5	1-4	1-5	1-23	1-16
Jung	266 GDE	R	60-600W	1-10	1-7	1-10	1-4	1-3	1-4	1-6	1-6
Jung	Licht-Management 225 NV DE	RL	100W	1-10	1-5	1-10				1-6	1-6
Legrand	617 030		40-600W	2-7	Incompatible	Incompatible	1-2	Incompatible	1-2		
Legrand	665714		400W/75W(LED)	1-20	1-14	1-10	1-3	1-2	1-3		
merten	MEG5134-0000		4-400W	1-11	1-17	1-20	1-5	1-3	1-5		
NIKO	310-01901	R,L,C,CFLi	325W	1-8	1-13	1-8	1-4	1-3	1-4	1-13	1-9
NIKO	310-0190X		5-325W	1-8	1-13	1-10	1-4	1-3	1-4		
NVC	EP8D11A BLB5		400W	1-2	1-2	1-2	1-1	1-1	1-1		
NIKO	310-02900		200W	1-2	1-2	1-2	1-1	1-1	1-1		
OPUS	852,397		110W/35W(LED)	1-10	1-6	1-4	Incompatible	Incompatible	Incompatible		
PEHA	431 HAN LED		120W/60W(LED)	1-13	1-11	1-7	1-2	Incompatible	1-2		
PEHA	435 HAB		20-525W	1-14	1-20	1-20	1-5	1-5	1-5		
Panasonic	BS EN 60669-2-1		150W-500W	1-4	1-3	1-4	1-1	1-1	1-1		
Panasonic	WEG578153		80-500W	1-4	1-2	Incompatible	1-2	1-1	1-2		
SIEMENS	5UH8222-3NC01		40W-500W	1-5	Incompatible	1-4	1-1	1-1	1-1		
Wintop	13212	L	300W				1-2	1-1	1-2	1-2	1-2
Wintop	13512	RC	500W	1-10	1-10	1-10	1-7	1-4	1-7	1-22	1-16

Cut-Out Conversion List

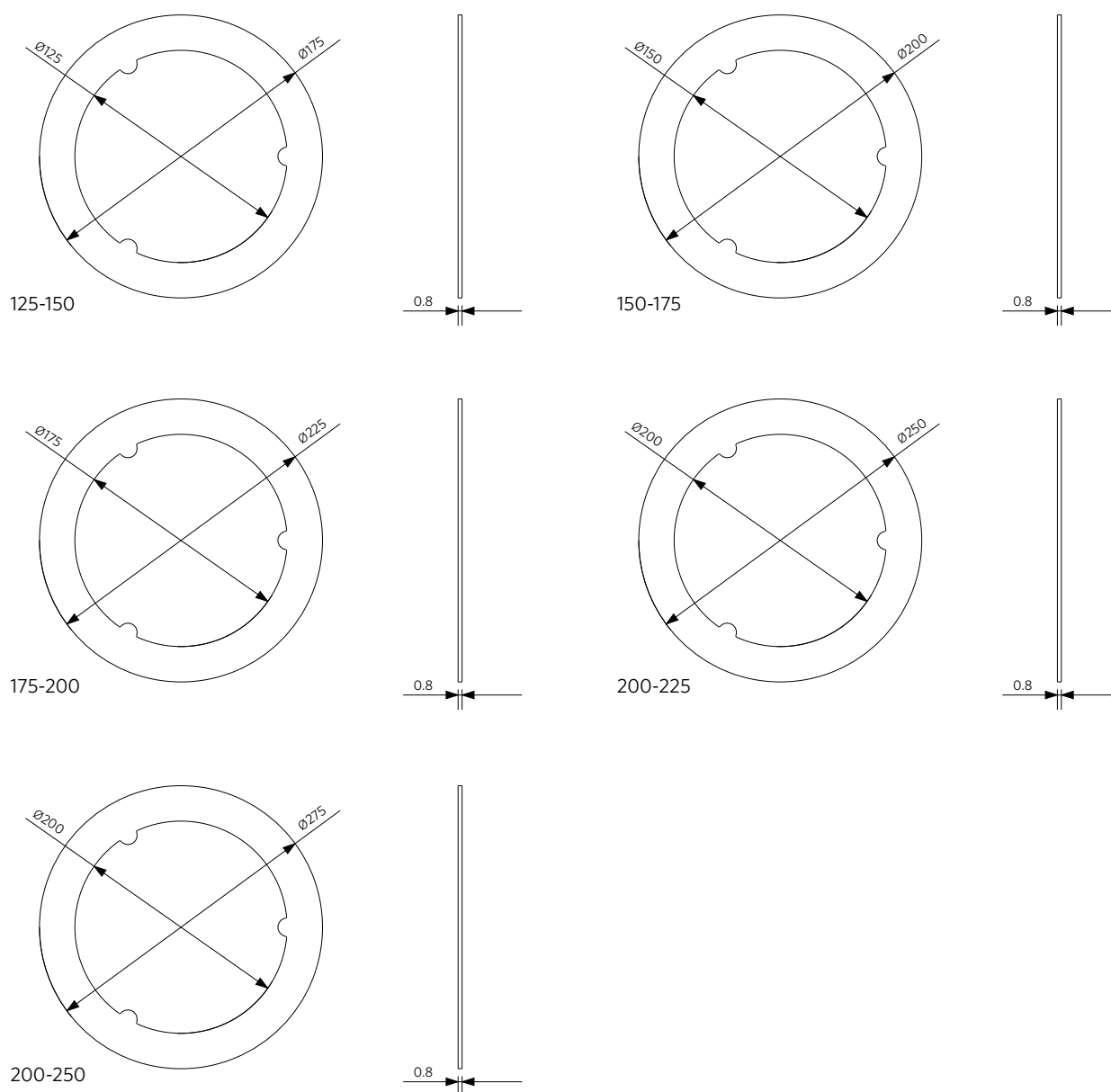
Cut-Out Overview																			
		Cut-Out (mm)		Φ60	Φ68	Φ72	Φ76	Φ80	Φ95	Φ120	Φ125	Φ150	Φ172	Φ175	Φ200	Φ210			
LED Downlight	Performer	LED DL-RC-P HG/MW R150-11.5W (incl DALI/BLE)										■							
		LED DL-RC-P HG/MW R200-15W (incl DALI/BLE)														■			
		LED DL-RC-P HG/MW R200-23W (incl DALI/BLE)															■		
		LED DL-RC-P HG/MW R200-33W (incl DALI/BLE)															■		
	EcoMax	HZ ^{DIM}	LED DL-RC-HZ DIM R125-7W									■							
			LED DL-RC-HZ DIM R150-10W										■						
			LED DL-RC-HZ DIM R175-13W												■				
			LED DL-RC-HZ DIM R200-16W														■		
	Slim EcoMax	Slim	LED DL-SL-E R150-12W										■						
			LED DL-SL-E R200-24W														■		
			LED DL-SL-E Sq150-12W															■	
			LED DL-SL-E Sq200-24W																■
	Basic	Basic	LED DL-RC-B Rd150 12W										■						
			LED DL-RC-B Rd200 22W															■	
			Cut-Out (mm)		Φ60	Φ68	Φ72	Φ76	Φ80	Φ95	Φ120	Φ125	Φ150	Φ172	Φ175	Φ200	Φ210		
	LED Spots	Performer	RA	LED SP-RA-P 30W									■						
LED SP-RA-P 45W												■							
Swing		RS	LED SP-RS-P20W								■	■							
			LED SP-RS-P35W												■	■			
HQ		RA	LED SP-RA-HQ 7W					■	■										
			LED SP-RA-HQ 8W					■	■										
EcoMax		RF	LED-SP-RF 4.5W			■													
			LED-SP-RF 7W			■													
Decorative		Ava G2	LED Ava G2 5W			■	■	■											
			LED Ava G2 7W			■	■	■											

Note: For Downlight Performer, HZ^{DIM} and Slim EcoMax, adapter rings are also available.



Adapter Rings Overview

Item code	Item Description	Luminaire cut-out	Existing ceiling hole	Adapter ring outer diameter
140060646	LEDDownlightRc-P-HZ-Adapter-150-175	150	175	200
140060647	LEDDownlightRc-P-SI-E-Adapter-200-225	200	225	250
140060648	LEDDownlightRc-P-SI-E-Adapter-200-250	200	250	275
140060650	LEDDownlightRc-HZdim-Adapter-125-150	125	150	175
140060651	LEDDownlightRc-HZdim-Adapter-175-200	175	200	225
140060652	LEDDownlightRc-HZdim-Adapter-200-225	200	225	250
140060649	LEDDownlightRc-HZdim-Adapter-200-250	200	250	275
140060653	LEDDownlightRc-SI-E-Adapter-150-175	150	175	200



Appendix

Version April 2021
Data subject to change
160

Connection Specifications

Tables below present the maximum number of luminaires that can be connected on one B16/C16 automate.

Category	Series	Types	DC Input Voltage	Max. units per B16	Max. units per C16	Max. inrush current (A)	Inrush time (µs)
LED Panel	Grille	21W / 36W	190 - 210	37	62	35	270
LED Panel	Grille	21W DALI	186 - 250	30	51	11	23
LED Panel	Grille	33W DALI/BLE Sq595	180 - 280	11	19	42	240
LED Panel	Grille	33W DALI/BLE Re298	180 - 280	11	19	42	240
LED Panel	Monza	35W	n/a	40	57	23	24
LED Panel	Monza	35W DALI/10V/BLE	180 - 280	21	35	21	162
LED Panel	Sydney	35W	n/a	40	57	23	24
LED Panel	Sydney	35W DALI/10V/BLE	180 - 280	21	35	21	162
LED Panel	Slim Performer G5	30W/30W DALI	180 - 280	16	25	25	500
LED Panel	Slim Performer G5	34W/34W DALI	180 - 280	16	25	25	500
LED Panel	Slim Performer G5	30W/34W BLE	180 - 280	16	25	25	500
LED Panel	Slim Performer G5	34W BLE W	180 - 280	21	35	45	143
LED Panel	Slim EcoMax	34W	n/a	11	19	32	350
LED Lima	Lima	15/18W DALI	180 - 260	17	28	25	330
LED Lima	Lima	30/36W DALI	180 - 260	15	26	20	400
LED Panel Suspended	Zenith	75W DALI	190 - 210	18	30	35	500
LED Panel Suspended	Zenith	75W BLE	200 - 300	32	35	39	103
LED Panel	Slim Basic G2	36W	150 - 300	36	60	13	254
LED Downlight	Performer HG/MW	11.5W / 11.5W DALI	200 - 300	55	92	20	356
LED Downlight	Performer HG/MW	15W / 15W DALI	200 - 300	55	92	20	356
LED Downlight	Performer HG/MW	23W / 23W DALI	200 - 300	26	43	18	800
LED Downlight	Performer HG/MW	33W / 33W DALI	200 - 300	26	43	18	800
LED Downlight	Performer HG/MW	11.5W / 15W BLE	n/a	55	92	24	100
LED Downlight	Performer HG/MW	23W / 33W BLE	n/a	26	43	20	240
LED Downlight	Performer HG/MW	25W BLE TW	n/a	21	35	45	143
LED Downlight	HZ ^{DIM}	7W	200 - 300	181	307	1,4	320
LED Downlight	HZ ^{DIM}	10W	200 - 300	126	214	1,6	708
LED Downlight	HZ ^{DIM}	13W	200 - 300	97	164	1,5	464
LED Downlight	HZ ^{DIM}	16W	200 - 300	79	134	1,6	288
LED Downlight	Slim EcoMax	12W	n/a	105	178	11	59
LED Downlight	Slim EcoMax	24W	n/a	52	88	11	56
LED Downlight	Basic	12W	200 - 300	168	263	9,4	80
LED Downlight	Basic	22W	200 - 300	44	74	29	94
LED Spot	Performer 3C Compact	12W	180 - 260	130	130	2	27,2
LED Spot	Performer 3C Compact	25W	310 - 340	85	85	7,8	79,7
LED Spot	Performer 3C Compact	35W	310 - 340	55	55	10	78,1
LED Spot	Performer 3C Compact	37W BLE	n/a	21	35	41	150
LED Spot	Performer 3C/RA	30W	200 - 300	13	22	45	500
LED Spot	Swing	20W	n/a	101	101	22	40
LED Spot	Swing	35W	n/a	57	57	24	23,5
LED Spot	Swing	35W DALI/BLE	180 - 280	24	40	41	150
LED Spot	Swing	35W 10V	200 - 300	24	40	41	150
LED Spot	3C EcoMax	30W	200 - 300	24	40	10	230
LED Spot	HQ	7W Dim	180 - 260	5	n/a	3	180
LED Spot	HQ	8W Dim	190 - 210	n/a	n/a	1	500

Category	Series	Types	DC Input Voltage	Max. units per B16	Max. units per C16	Max. inrush current (A)	Inrush time (µs)
LED Spot	Ava G2	5W	n/a	441	441	2,6	175
LED Spot	Ava G2	7W	n/a	314	314	2,6	175
LED Spot	EcoMax	4.5W	190 - 210	281	477	7	2
LED Linear	EcoMax	20W	n/a	41	70	30	500
LED Linear	EcoMax	40W/54W	n/a	26	44	180	2
LED Lowbay	Lowbay	30W	190 - 210	17	29	8,2	800
LED Lowbay	Lowbay	50W	190 - 210	11	19	10,4	1000
LED Lowbay	Lowbay	80W	180 - 260	8	13	48	592
LED Highbay	Performer G4	80W (DALI/Static)	190 - 210	11	18	52	250
LED Highbay	Performer G4	80W (BLE)	180 - 260	24	40	52	810
LED Highbay	Performer G4	80W (MD)	180 - 260	9	16	40	300
LED Highbay	Performer G4	115W (DALI/Static)	190 - 210	11	18	52	250
LED Highbay	Performer G4	115W (BLE)	180 - 260	24	40	52	810
LED Highbay	Performer G4	115W (MD)	180 - 260	9	16	40	300
LED Highbay	Performer G4	155W (DALI/Static)	190 - 210	5	9	35	650
LED Highbay	Performer G4	155W (BLE)	180 - 260	24	40	52	810
LED Highbay	Performer G4	155W (MD)	180 - 260	2	4	51	810
LED Highbay	Performer G4	230W (DALI/Static)	190 - 210	5	9	35	650
LED Highbay	Performer G4	230W (BLE)	180 - 260	24	40	52	810
LED Highbay	Performer G4	155W (MD)	180 - 260	2	4	51	810
LED Highbay	EcoMax	95W/140W/185W	n/a	24	40	40	5
LED Waterproof	Performer G3 L710	12.5W	150 - 300	206	206	10,2	50
LED Waterproof	Performer G3 L710	24W	150 - 300	64	106	18,4	100
LED Waterproof	Performer G3 L1310	24W	150 - 300	64	106	18,4	100
LED Waterproof	Performer G3 L1310	38W	150 - 300	56	56	18,4	100
LED Waterproof	Performer G3 L1610	31W	150 - 300	56	84	20,8	100
LED Waterproof	Performer G3 L1610	47W	150 - 300	44	44	19,8	100
LED Waterproof	Performer G3 L1610	54W	150 - 300	39	39	26,8	100
LED Waterproof	Performer G3 L710	12.5W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Performer G3 L710	24W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Performer G3 L1310	24W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Performer G3 L1310	38W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Performer G3 L1610	31W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Performer G3 L1610	47W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Performer G3 L1610	54W (DALI/BLE)	150 - 300	24	40	41	240
LED Waterproof	Classic	20W	280 - 360	56	90	13	92
LED Waterproof	Classic	29W	280 - 360	26	50	19	103
LED Waterproof	Classic	43W	280 - 360	21	34	19	103
LED Waterproof	Classic	53W	280 - 360	20	34	19	103
LED Waterproof	EcoMax G2 L680	10W	n/a	24	40	8	60
LED Waterproof	EcoMax G2 L680	20W	n/a	24	40	8	80
LED Waterproof	EcoMax G2 L1280	18W	n/a	24	40	8	80
LED Waterproof	EcoMax G2 L1250	37W	n/a	24	40	10	80
LED Waterproof	EcoMax G2 L1550	27W	n/a	24	40	10	100
LED Waterproof	EcoMax G2 L1550	50W	n/a	24	40	13	50
LED Waterproof	Basic	36W	n/a	46	67	12,3	240
LED Waterproof	Basic	50W	n/a	42	42	8,7	150
LED Trunking	Trunking	35W	180 - 260	38	63	15	250
LED Trunking	Trunking	35WDALI	180 - 260	38	63	15	180
LED Trunking	Trunking	50W	180 - 260	18	30	40	178
LED Trunking	Trunking	50WDALI	180 - 260	14	23	40	178

Appendix

Category	Series	Types	DC Input Voltage	Max. units per B16	Max. units per C16	Max. inrush current (A)	Inrush time (µs)
LED Trunking	Trunking	70W	180 - 260	12	20	40	178
LED Trunking	Trunking	70WDALI	180 - 260	14	23	40	178
LED T8 Batten	T8 Batten	19W / 38W	150 - 300	44	74	17,2	660
LED Streetlight	Streetlight G2	20W / 40W	200 - 300	29	49	17	250
LED Streetlight	Streetlight G2	65W	190 - 210	11	18	14,1	400
LED Roadlight	Roadlight	90W	190-210	7	12	19	1740
LED Roadlight	Roadlight	120W	190-210	5	9	41	510
LED Roadlight	Roadlight	150W	190-210	4	8	49	500
LED Roadlight	Roadlight	200W	190-210	3	6	50	600
LED Roadlight	EcoMax	80W/100W	200 - 300	8	20	410	252
LED Flood	Performer	90W / 125W / 160W	190 - 210	11	18	35	800
LED Flood	Performer	220W	180 - 280	3	5	66,5	540
LED Flood	EcoMax G2	30W	310	93	94	8	38,2
LED Flood	EcoMax G2	50W	310	10	13	70	5,3
LED Flood	EcoMax G2	70W	310	16	21	44	10,1
LED Flood	EcoMax G2	10W	200 - 300	50	83	3	90
LED Flood	EcoMax G2	19W	200 - 300	110	130	6	190
LED Porchlight	EcoMax	5W/6W	200 - 300	200	350	18	20
LED Wallmounted	Performer	15W/16W	200 - 300	122	122	25,2	4,8
LED Wallmounted	Performer	21W/22W	200 - 300	90	90	25,2	4,8
LED Wallmounted	EcoMax G2	14W	n/a	64	106	74	25
LED Wallmounted	EcoMax G2	22W	n/a	84	84	28	25
LED PostTop	Performer	33W	200 - 300	16	26	50	134
LED PostTop	Performer	50W	200 - 300	15	25	50	134
LED PostTop	Performer	68W	200 - 300	14	23	150	70
LED Bollard	Performer	10.5W	180 - 260	75	96	10	25
LED Flood HO	Flood HO	310W	190 - 210	2	4	27	1500
LED Flood HO	Flood HO	620W	190 - 210	2	3	28,5	2820

SMART

INDOOR

OUTDOOR

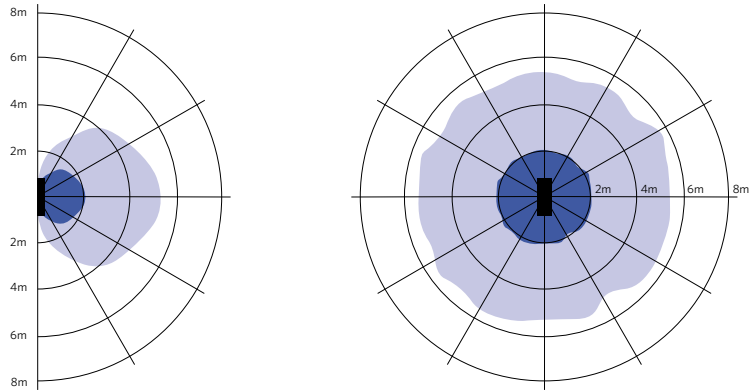
LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY

Motion Sensors - detection range

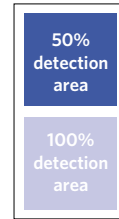
LED Porchlight MD



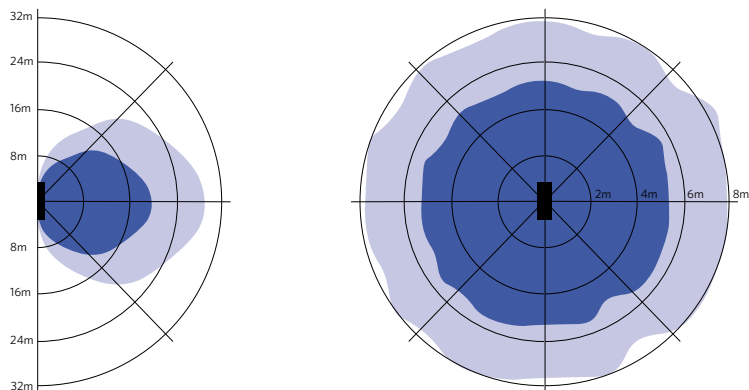
Installation - Wall Mounted
Suggested installation height 1-2m

Installation - Ceiling Mounted
Suggested installation height 2.5-4m

Item codes:
140064479
140064480
140064483
140064484



LED Wall Mounted Performer MD

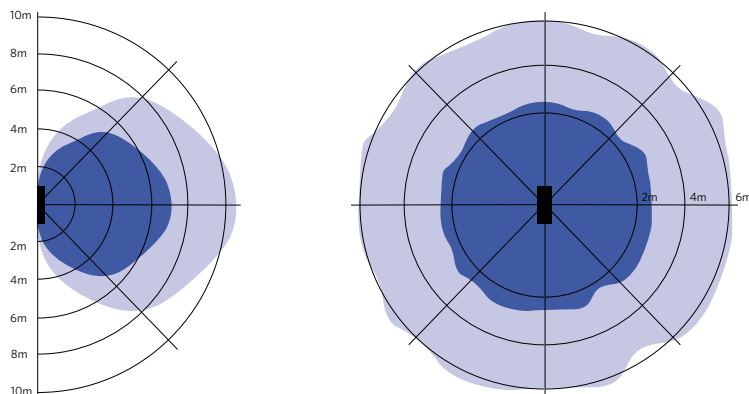


Installation - Wall Mounted
Suggested installation height 1-4m

Installation - Ceiling Mounted
Suggested installation height 2.5-10m

Item codes:
543011000500
543011000300

LED Floodlight Sensor



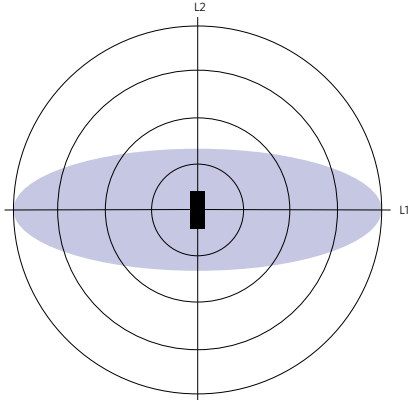
Installation - Wall Mounted
Suggested installation height 2.5-6m

Installation - Ceiling Mounted
Suggested installation height 2.5-6m

Item code:
140065060

Appendix

LED Trunking Sensor L/H

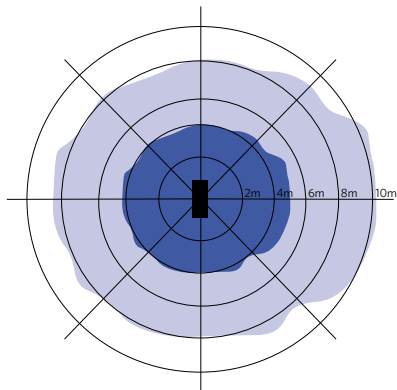


Item codes:
542098004600
542098004700

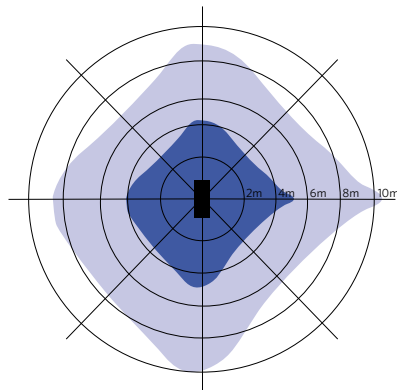
Installation height (m)	Sensor Probe L (m)		Sensor Probe H (m)	
	50% Sensitivity (L1xL2)	100% Sensitivity (L1xL2)	50% Sensitivity (L1xL2)	100% Sensitivity (L1xL2)
3	2.1x1.5	5.0x2.2	NA	NA
4	1.8x1.3	4.5x2.2	2.9x1.6	6.7x2.9
5	1.0x1.2	4.0x2.1	5.3x2.0	8.4x3.6
6	NA	NA	5.5x2.1	10.0x4.4
7	NA	NA	4.6x1.8	9.0x3.9
8	NA	NA	3.7x1.6	8.0x3.6
9	NA	NA	3.4x1.6	7.0x3.2
10	NA	NA	2.9x1.4	6.0x2.8

Installation - Ceiling Mounted

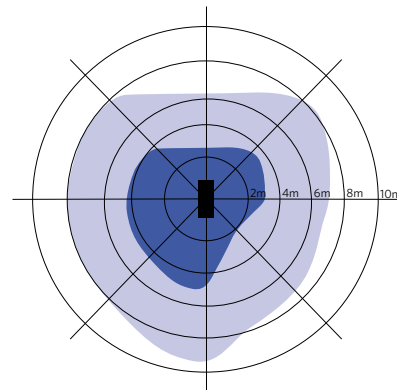
Highbay MD



Installation - Low Ceiling
Suggested installation height 9m

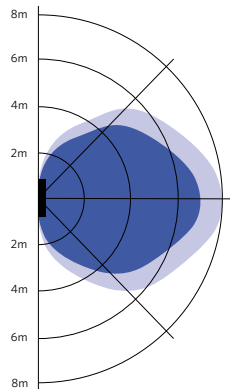


Installation - Medium Ceiling
Suggested installation height 12m

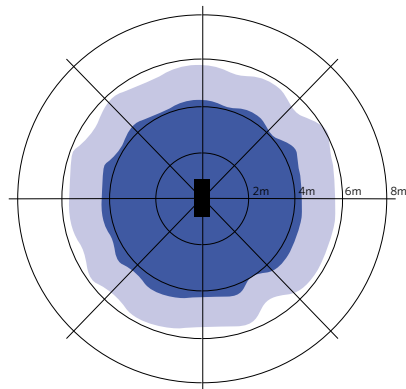


Installation - High Ceiling
Suggested installation height 15m

LED Wall Mounted EcoMax G2



Installation - Wall Mounted
Suggested installation height 1-3m



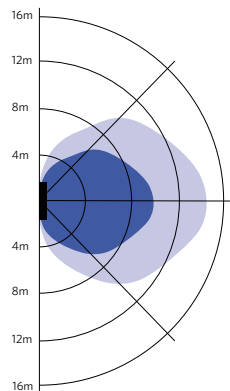
Installation - Ceiling Mounted
Suggested installation height 2.5-6m

Item codes:
522020001700
522020001500
522020001300
522020001100

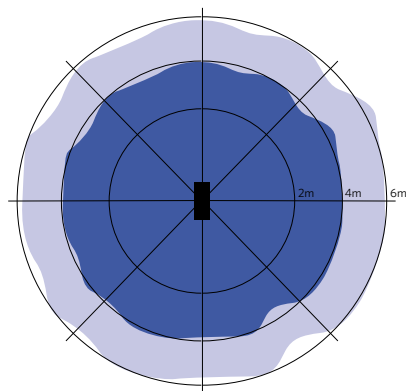


Motion Sensors - detection range

LED Module Sensor CT

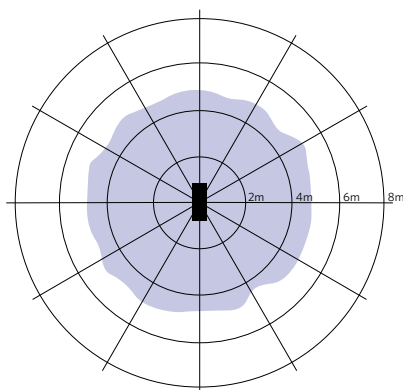


Installation - Wall Mounted
Suggested installation height 1-1.8m



Installation - Ceiling Mounted
Suggested installation height 2.5-6m

Smart Sensor PIR



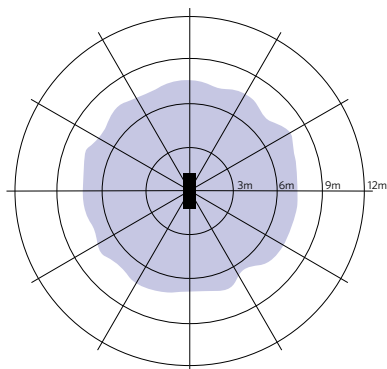
Installation - Low Ceiling
Suggested installation height 2-3m

Item code:
140063563

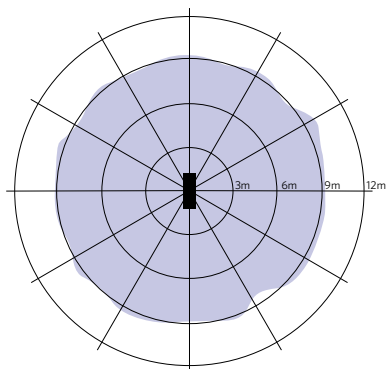
Recommended Height (m)	Sensitivity Setting	Detection Radius (m)
3	Low	7
8	Middle	9
9	High	10
12	High	7

Smart Sensor MW

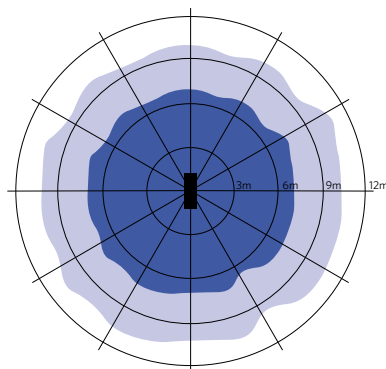
Item code:
560000008400



Installation - Low Ceiling
Suggested installation height 3m



Installation - Medium Ceiling
Suggested installation height 8m



Installation - High Ceiling
Suggested installation height 9-12m

Appendix

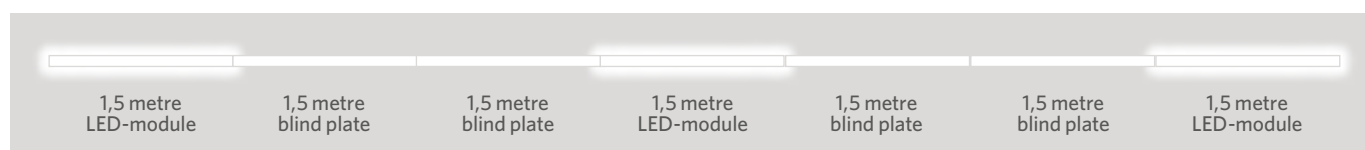
Trunking - module allocation

PARTS REQUIRED FOR ONE LED-LIGHTLINE WITH 50% LED-module allocation



Trunk length (m)	Number of LED modules	Number of 3m trunks	Number of 3m end trunks	Number of 1.5m end trunks	Number of blind plates	Number of feed-in boxes	Number of end caps	Minimum number of hanging points
1,5	1	0	0	1	0	1	1	2
4,5	2	1	0	1	1	1	1	2
7,5	3	2	0	1	2	1	1	3
10,5	4	3	0	1	3	1	1	4
13,5	5	4	0	1	4	1	1	5
16,5	6	5	0	1	5	1	1	6
19,5	7	6	0	1	6	1	1	7
22,5	8	7	0	1	7	1	1	8
25,5	9	8	0	1	8	1	1	9
28,5	10	9	0	1	9	1	1	10
31,5	11	10	0	1	10	1	1	11
34,5	12	11	0	1	11	1	1	12
37,5	13	12	0	1	12	1	1	13
40,5	14	13	0	1	13	1	1	14

PARTS REQUIRED FOR ONE LED-LIGHTLINE WITH 33% LED-module allocation



Trunk length (m)	Number of LED modules	Number of 3m trunks	Number of 3m end trunks	Number of 1.5m end trunks	Number of blind plates	Number of feed-in boxes	Number of end caps	Minimum number of hanging points
1,5	1	0	0	1	0	1	1	2
6,0	2	1	1	0	2	1	1	3
10,5	3	3	0	1	4	1	1	4
15,0	4	4	1	0	6	1	1	6
19,5	5	6	0	1	8	1	1	7
24,0	6	7	1	0	10	1	1	9
28,5	7	9	0	1	12	1	1	10
33,0	8	10	1	0	14	1	1	12
37,5	9	12	0	1	16	1	1	13
42,0	10	13	1	0	18	1	1	15

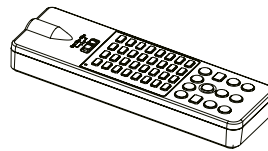
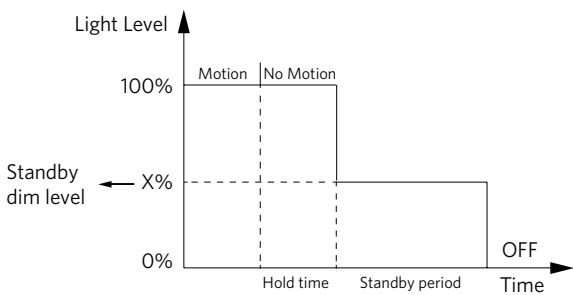
Highbay MD - Controller

Motion Sensor

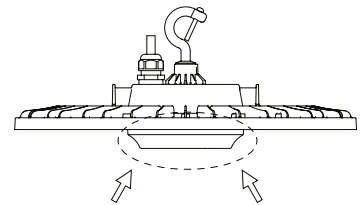
Luminaire is equipped with an integrated microwave motion/daylight sensor. The sensor will work immediately after the luminaire is connected, no further action required.

Factory settings	
Detection Area	100%
Hold Time	2 seconds
Stand-by Period	0 seconds
Stand-by dim Level	10%
Daylight Sensor	Disabled

To modify the factory settings. It is required to use the IR Remote Controller (Not included).

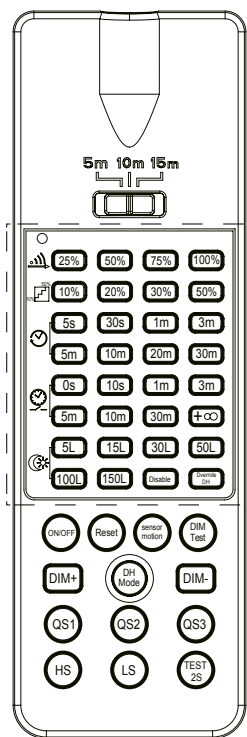


543098024500
LED HB4-Remote Controller
(Sold as accessory)



Sensor Position

Key Remote Controller functions



Detection Area

Size of the detection area of the sensor.

- 25%
- 50%
- 75%
- 100%

Stand-by dim Level

Dimming level of the luminaire during the Stand-by Period.

- 10%
- 20%
- 30%
- 50%

Hold Time

How much time without detecting any movement before the sensor dims the luminaire.

- 5s
- 30s
- 1m
- 3m
- 5m
- 10m
- 20m
- 30m

Stand-by Period

How much time without detecting any movement before the sensor turns off the luminaire.

- 0s
- 10s
- 1m
- 3m
- 5m
- 10m
- 30m
- +∞

Daylight Sensor

If more lux is measured by the sensor than the set value, the luminaire will not switch on when movement is detected, to save energy. The 'Disable' button will cancel this daylight sensing functionality.

- 5L
- 15L
- 30L
- 50L
- 100L
- 150L
- Disable
- Override

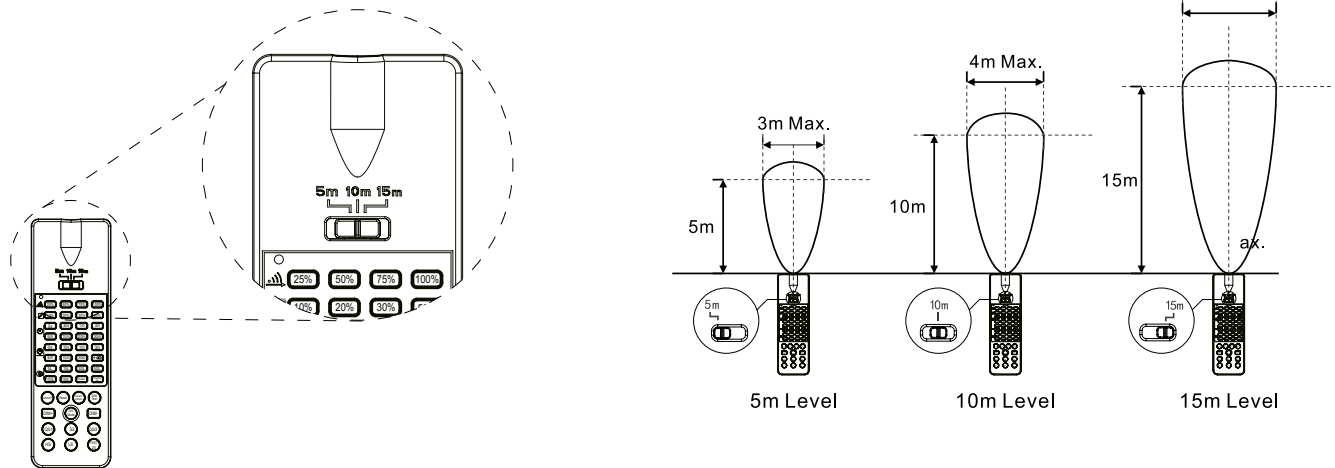
Appendix

Version April 2021
Data subject to change

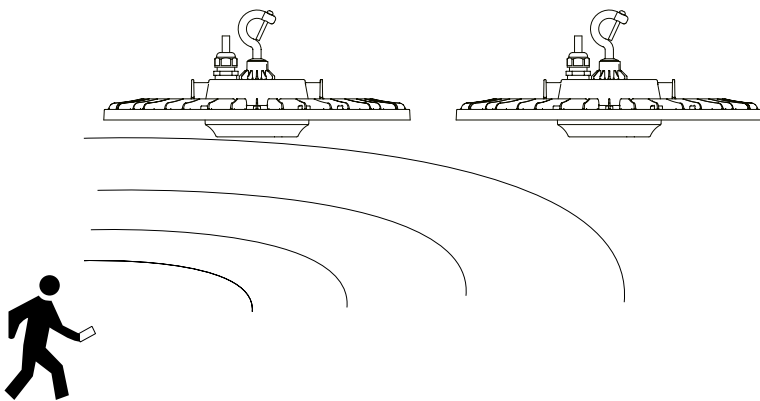
Operation

Note: Before starting ensure that luminaires are turned on, and the remote controller has batteries.

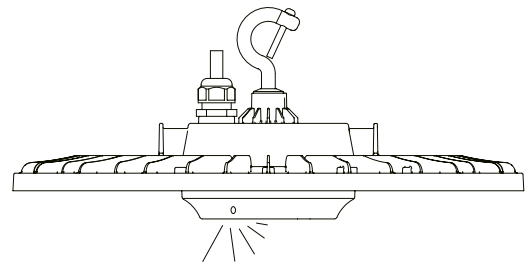
1. Set the remote sensitivity according to the mounting height of the Highbay.



2. Point the remote facing forward towards the motion sensor of the Highbay MD, all the luminaires with sensor within range will respond to the signal.



3. The luminaire indicator light (green) will flash one time after it has received the new setting.

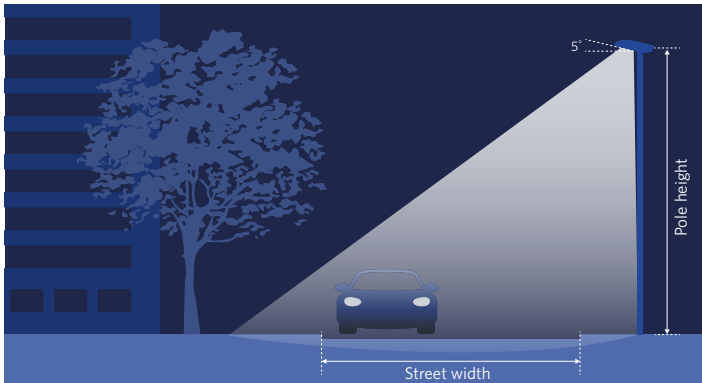


For all remote controller functions please see the Highbay MD Remote Controller Installer Instruction.



Roadlight - Possible pole distances

Maximum Pole Distances



Lighting Class according to EN 13201: 2015
 Lighting Calculation details:
 • Roadway surface CIE R3 Qo: 0.7
 • Maintenance factor: 0.8
 • Arrangement type: single side bottom

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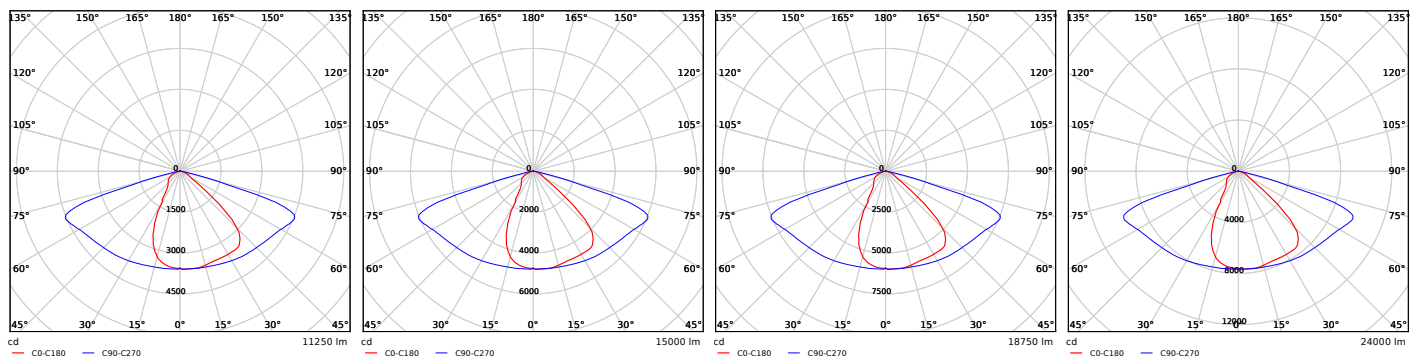
M-Class Roads

Luminaire	Illuminance Class	Width [m]	Pole distance[m]	Pole height [m]	Boom angle [°]	Light overhang [m]
543014005800 LEDRoadlight-90W-4000-DALI	M3	11	32	8	10	1
		10	34	8	5	1
		9	35	8	10	0,8
		8	35	9	0	0,9
	M4	11	39	9	10	1
		10	40	10	0	0,9
		9	41	10	5	0,9
		8	42	10	5	0,6
543014005700 LEDRoadlight-120W-4000-DALI	M3	11	39	9	10	0,7
		10	40	10	0	1
		9	41	10	0	0,6
		8	42	10	5	0,9
	M4	11	47	11	5	0,7
		10	48	11	10	0,6
		9	49	12	0	0,9
		8	51	12	5	0,9

Luminaire	Illuminance Class	Width [m]	Pole distance[m]	Pole height [m]	Boom angle [°]	Light overhang [m]
543014005600 LEDRoadlight-150W-4000-DALI	M3	11	45	11	0	0,9
		10	46	11	5	0,8
		9	47	11	5	0,8
		8	48	11	10	0,3
	M4	11	54	13	0	1
		10	55	13	5	1
		9	55	13	10	0,4
		8	57	14	0	1
543014005500 LEDRoadlight-200W-4000-DALI	M3	11	52	12	10	0,9
		10	54	13	0	1
		9	55	13	5	1
		8	55	13	5	0,7
	M4	11	62	15	0	0,7
		10	64	15	5	0,9
		9	64	15	5	0,2
		8	65	15	10	0

M-class = main road

Polar Diagrams



LEDRoadlight 90W-4000K-DALI

LEDRoadlight 120W-4000K-DALI

LEDRoadlight 150W-4000K-DALI

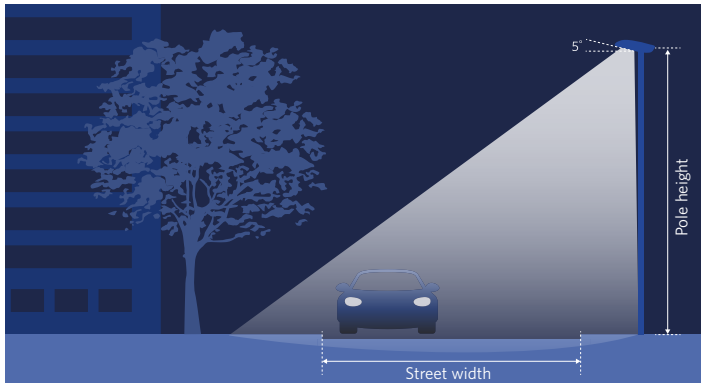
LEDRoadlight 200W-4000K-DALI

Appendix

Version April 2021
 Data subject to change
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Streetlight G2 - Possible pole distances

Maximum Pole Distances



Lighting Class according to EN 13201: 2015
 Lighting Calculation details:
 • Roadway surface CIE R3 Qo: 0.7
 • Maintenance factor: 0.8
 • Arrangement type: single side bottom

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M-Class Roads

Luminaire	Illuminance Class	Street width [m]	Maximum pole distance[m]	Pole height [m]	Boom angle [°]	Light overhang [m]
LED Streetlight G2 20W	M5	4	26	5	5	0,1
		5	24	5	5	0,3
		6	22	5	5	0,4
	M6	4	35	7	5	0,2
		5	34	6,5	5	0,1
		6	32	6,5	5	0,5
LED Streetlight G2 40W	M5	4	37	7,5	5	0,4
		5	36	7	5	0,2
		6	34	7	5	0,4
	M6	4	49	10	5	0,5
		5	48	9,5	5	0,1
		6	46	9,5	5	0,5
LED Streetlight G2 60W	M4	5	34	8,5	5	0,3
		6	33	8,5	5	0,4
		7	32	8	5	0,4
	M5	8	30	8	5	0,5
		5	47	10	5	0,3
		6	46	9,5	5	0,3
7	44	9,5	5	0,5		
8	41	9,5	5	0,5		

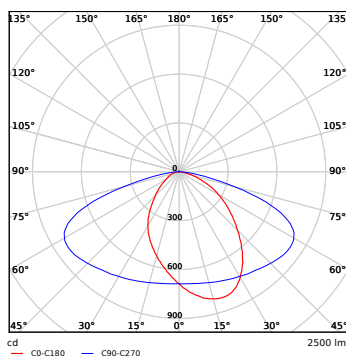
M-class = main road

P-Class Roads

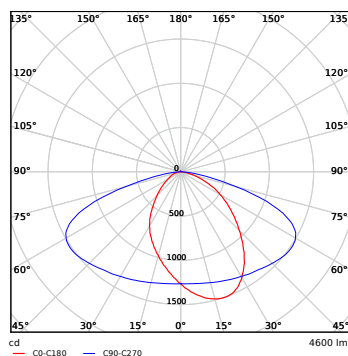
Luminaire	Illuminance Class	Street width [m]	Maximum pole distance[m]	Pole height [m]	Boom angle [°]	Light overhang [m]
LED Streetlight G2 20W	P2	3	24	4,5	5	0
		4	23	4	5	0
		5	23	4	5	0,5
	P4	6	20	4	5	0,3
		3	35	6,5	5	0,5
		4	35	6,5	5	0,3
LED Streetlight G2 40W	P2	5	34	6	5	0,1
		6	33	6	5	0,5
		3	32	6	5	0,4
	P4	4	32	6,5	5	0,5
		5	32	6	5	0,2
		6	31	5,5	5	0,2
LED Streetlight G2 60W	P2	3	47	9	5	0,1
		4	47	9	5	0,3
		5	46	9	5	0,5
	P4	6	46	8,5	5	0,3
		4	43	8,5	5	0,3
		5	42	8	5	0,1
6	41	8,5	5	0,3		
7	41	8	5	0,5		

P-class = pedestrian road

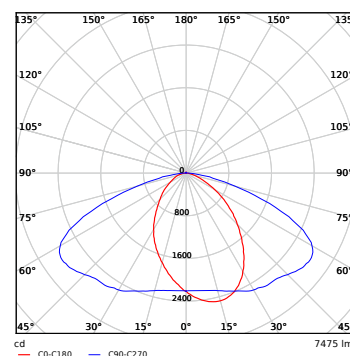
Polar Diagrams



LED Streetlight G2 20W



LED Streetlight G2 40W

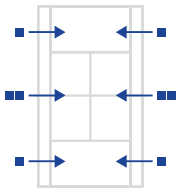


LED Streetlight G2 60W

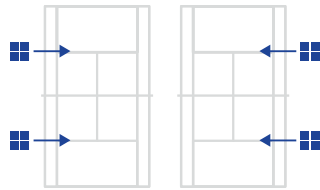
LED Flood HO - Configuration examples

TENNIS

Class II

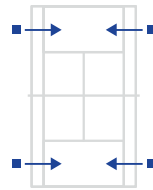


COMPETITION
SINGLE FIELD
4 X 1X 310W
2 X 1X 620W
POLE HEIGHT: 8M

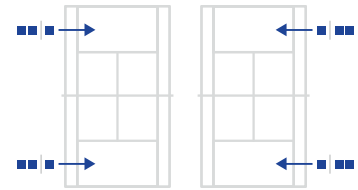


COMPETITION
DOUBLE FIELD
4 X 1240W
POLE HEIGHT: 11M

Class III



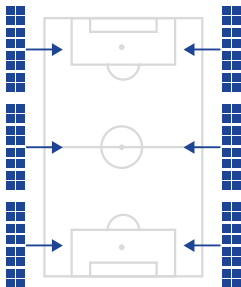
TRAINING
SINGLE FIELD
4 X 310W
POLE HEIGHT: 8M



TRAINING
DOUBLE FIELD
4 X 310W + 620W
POLE HEIGHT: 11M

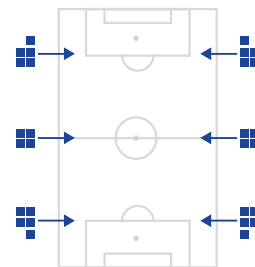
SOCCER

Class II



COMPETITION
PLAYING FIELD
4 X 4X 1240W
2 X 3X 1240W
POLE HEIGHT: 18M

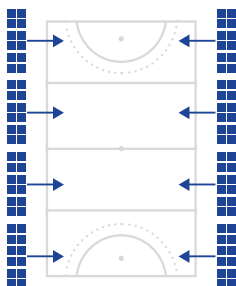
Class III



TRAINING
PLAYING FIELD
4 X 1 X 1240W
+ 1 X 310W
2 X 1 X 1240W
POLE HEIGHT: 21M

HOCKEY

Class II



HOCKEY
PLAYING FIELD
8 X 3X 1240W
POLE HEIGHT: 18M

The calculations are indicative and not binding in any way. Please contact us for a calculation tailored to your exact situation.

EN 12193-standard for a tennis court

	class II	class III
Average light intensity	300 lx	200 lx
Light homogeneity	0.7	0.6
Colour rendering	60	20

EN 12193 standard for a soccer pitch

	class II	class III
Average light intensity	200 lx	75 lx
Light homogeneity	0.6	0.5
Colour rendering	60	20

EN 12193 standard for a hockey pitch

	class II	class III
Average light intensity	250 lx	200 lx
Light homogeneity	0.7	0.7
Colour rendering	60	20

HOW TO READ THE TABLES?

The table describes the requirements of the EN12193 standard for each sports field in terms of light intensity and colour rendering. For example, a football pitch for competition use (class II) requires a minimum of 200 lux on average, with a homogeneity of 0.6 and colour rendering of at least 60. A training field (class III) requires uniform light distribution at 75 lux as a minimum and colour rendering of at least 60.

HOW MANY LED-MODULES DO YOU NEED?

These examples are based on the standards for football pitches, hockey pitches and tennis courts. Obviously, other field sports can also be illuminated with OPPLÉ's LED Flood HO sports field lighting system. Our service desk can tell you exactly which lighting standard applies to each specific type of sports field. Feel free to contact one of our advisers in order to specify the LED lighting package you require.

Call us on our service number:

+31 88 056 7888.

We look forward to assisting you.



IP Rated Product Overview

IP-rating	Indoor application	Outdoor application
IP44	<ul style="list-style-type: none"> LED Downlight Performer HG/MW (light output side) LED Downlight HZ^{DIM} (light output side) LED Downlight Slim EcoMax (light output side) LED Ceiling Light Apollo LED Ceiling Light Apollo Basic LED Linear EcoMax 	
IP54	<ul style="list-style-type: none"> LED Slim Panel Performer G5 (non-TW, light output side) LED Wall-Mounted EcoMax G2 	
IP65	<ul style="list-style-type: none"> LED Waterproof Performer G3 LED Waterproof EcoMax G2 LED Waterproof Basic LED Highbay EcoMax 	<ul style="list-style-type: none"> LED Bollard LED Floodlight EcoMax G2 Medium Power LED Floodlight Basic LED Porchlight EcoMax LED Wall-Mounted Performer
IP66	<ul style="list-style-type: none"> LED Highbay Performer G4 	<ul style="list-style-type: none"> LED Roadlight LED Roadlight EcoMax LED Streetlight G2 LED Post Top LED Flood HO LED Floodlight Performer LED Floodlight EcoMax G2 Low Power

For an explanation of IP protection, see the glossary.



Smart	10
Indoor	24
Outdoor	114
Lamps & Tools	136
Technical Data	154
Glossary	176



Definition of terms

CRI (Ra)

Colour Rendering Index

A color rendering index (CRI) is a quantitative measure of the ability of a light source to reveal the colors of various objects faithfully in comparison with an ideal or natural light source.

CCT

Color temperature in Kelvin

The color temperature of a light source is the temperature of an ideal black-body radiator that radiates light of comparable color to that of the light source.

lm

lumen

The lumen (symbol: lm) is a measure of the total quantity of visible light emitted by a source

lx

lux

lumen/m²

The lux (symbol: lx) is measuring luminous flux per unit area. It is equal to one lumen per square metre. In photometry, this is used as a measure of the intensity, as perceived by the human eye, of light that hits or passes through a surface.

Efficacy

lm/W

Amount of light produced (lm) per unit of energy consumed (W) Luminous efficacy is a measure of how well a light source produces visible light. It is the ratio of luminous flux to power, measured in lumens per watt

UGR

Unified Glare Rating

The unified glare rating (UGR) is a measure of the glare in a given environment. It is basically the logarithm of the glare of all visible lamps, divided by the background lumination.

DALI/DALI2

Digital Addressable Lighting Interface

Digital Addressable Lighting Interface (DALI) is a trademark for network-based systems that control lighting in building automation.

SDCM

standard deviation of color matching

SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot discern colour difference.

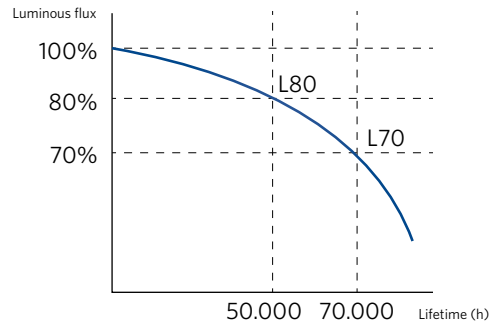
Power factor (pf)

Difference between power and apparent power

The power factor of an AC electrical power system is defined as the ratio of the real power flowing to the load to the apparent power in the circuit and is a dimensionless number in the closed interval of -1 to 1. A power factor of less than one means that the voltage and current waveforms are not in phase, reducing the instantaneous product of the two waveforms.

Lifespan

L70: Rated Median Useful Life during which LED based luminaires have their luminous flux degraded to 70 % (L70) of their initial flux, but are still operating.



L70 is as described in IEC 62717 and IEC 62722-2-1.

Input current

The steady state current which a device uses from the net after switch-on

Inrush Current

The maximum current that will occur during a short period of time after switching on of the luminaire.

IP

International Protection Rating

- The IP Code, International Protection Marking, IEC standard 60529, sometimes interpreted as Ingress Protection Marking, classifies and rates the degree of protection provided against intrusion (body parts such as hands and fingers), dust, accidental contact, and water by mechanical casings and electrical enclosures. It is published by the International Electrotechnical Commission (IEC). The equivalent European standard is EN 60529.
- The IP code consists of two digits. First digit: Solid particle protection. Second digit: Liquid ingress protection

1. The first digit indicates the level of protection that the enclosure provides against access to hazardous parts

IP 0* No protection against contact and ingress of objects

IP 1* Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part (> 50 mm)

IP 2* Fingers or similar objects > 12.5 mm)

IP 3* Tools, thick wires, etc. > 2.5mm)

IP 4* Most wires, slender screws, large ants etc. 1 mm

IP 5* Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment.

IP 6* No ingress of dust; complete protection against contact (dust tight). A vacuum must be applied. Test duration of up to 8 hours based on air flow.

2. The second digit indicates the level of protection that the enclosure provides against harmful ingress of water.

IP *0 None

IP *1 Dripping water (vertically falling drops) shall have no harmful effect on the specimen when mounted in an upright position onto a turntable and rotated at 1 RPM.

IP *2 Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle of 15° from its normal position. A total of four positions are tested within two axes.

IP *3 Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect, utilizing either:
a) an oscillating fixture, or b) A spray nozzle with a counterbalanced shield. Test a) is conducted for 5 minutes, then repeated with the specimen tilted 90° for the second 5-minute test. Test b) is conducted (with shield in place) for 5 minutes minimum.

IP *4 Water splashing against the enclosure from any direction shall have no harmful effect, utilizing either: a) an oscillating fixture, or b) A spray nozzle with no shield. Test a) is conducted for 10 minutes. Test b) is conducted (without shield) for 5 minutes minimum.

IP *5 Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

IP *6 Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.

IP *7 Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).

IP *8 The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects. The test depth and/or duration is expected to be greater than the requirements for IPx7, and other environmental effects may be added, such as temperature cycling before immersion.

IP *9 Protected against close-range high pressure, high temperature spray downs. Smaller specimens rotate slowly on a turntable, from 4 specific angles. Larger specimens are mounted upright, no turntable required, and are tested freehand for at least 3 minutes at distance of 0.15-0.2 m."

IK

This is an international numeric classification for the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. It provides a means of specifying the capacity of an enclosure to protect its contents from external impacts.

The most common IK values are:

- IK 02 Impact Resistance 0.2 Joules
Standard impact resistance, for example, a standard fixture
- IK 04 Impact Resistance 0.5 Joules
Standard Plus impact resistance, for example, a standard luminaire with an enhanced optical system
- IK 07 Shock resistance 2 Joule
Fortified fixture, for example, a standard fixture with a grid

- IK 08 Resistance to shock of 5 Joules

Vandalism protective fixture, such as a closed luminaire with polycarbonate or glass shade

- IK 10 Shock resistance 20 Joules

Vandal-proof fixture, for example a closed luminaire

SKG

SKG has developed into the partner for safeguarding the long-term performance and safety of industrial products for the building envelope.

Protection class

IEC protection classes are defined in IEC 61140 and used to differentiate between the protective-earth connection requirements of devices. These appliances must have their chassis connected to electrical earth.

- Class 0 These appliances have no protective-earth connection and feature only a single level of insulation between live parts and exposed metalwork. If permitted at all, Class 0 items are intended for use in dry areas only.
- Class 1 These appliances must have their chassis connected to electrical earth (US: ground) by a separate earth conductor (coloured green/yellow in most countries, green in the US, Canada and Japan). The earth connection is achieved with a 3-conductor mains cable, typically ending with 3-prong AC connector which plugs into a corresponding AC outlet.
- Class 01 Electrical installations where the chassis is connected to earth with a separate terminal, instead of via the mains cable. In effect this provides the same automatic disconnection as Class I, for equipment that otherwise would be Class 0
- Class 2 A Class II or double insulated electrical appliance is one which has been designed in such a way that it does not require a safety connection to electrical earth (ground).
- Class 3 A Class III appliance is designed to be supplied from a separated/safety extra-low voltage (SELV) power source. The voltage from a SELV supply is low enough that under normal conditions a person can safely come into contact with it without risk of electrical shock. The extra safety features built into Class I and Class II appliances are therefore not required. For medical devices, compliance with Class III is not considered sufficient protection, and further more-stringent regulations apply to such equipment.

Flicker free

Flicker is the fluctuation of the light output of a luminaire or lamp in time. The amount of flicker is expressed by the flicker percentage. If the flicker percentage is categorized as "no risk" according to the IEEE1789 standard, OPPL categorizes the product as being "flicker free".

D-Mark

According to VDE 0711 Part 2 - 24, luminaires bearing this symbol, due to their limited surface temperatures, are suitable for installations where dust material presents a fire hazard.



Glossary

Glossary general

CCT

Color temperature in Kelvin

CRI (Ra)

Colour Rendering Index

DALI

Digital Adressable Lighting Interface

Efficacy

lm/W

Amount of light produced (lm) per unit of energy consumed (W)

IK

Impact resistance

Input current

The maximum, instantaneous input current drawn by an electrical device when first turned on

Inrush Current

The maximum current that will occur during a short period of time after switching on of the luminaire.

IP

International Protection Rating

L70

Rated Median Useful Life during which LED based luminaires have their luminous flux degraded to 70 % (L70) of their initial flux, but are still operating

lm

lumen

luminous flux

lx

lux

lumen/m²

Power factor (pf)

Difference between power and apparent power

SDCM

standard deviation of color matching

UGR

Unified Glare Rating

Glare reduction

Glossary Opplé - abbreviation

100pct

100 percent

3C-P

3 phase track performer

AL

Aluminum

AS

Asymmetric beam angle

BA

Brushed aluminum

B

Basic

BL

Black

BL

Blister

BS

Brushed steel

CL

Clear

CT

Carton

Dim

Dimmable

E2 / HQ2 / G2 / P2

2nd Generation

EM1 / EM3

Emergency lighting 1 hour / 3 hours

FR

Frosted

G

Grille

GY/GR

Grey

HF

High frequency

HG
High Gloss

L12
Length 1200mm

L653
Length 653mm

MD
Motion/day-light detection

MW
Matt white

N
Narrow

P
Performer

PMMA
Polymethylmethacrylaat

RA-HQ
Round adjustable High Quality

RA-P
Round adjustable performer (recessed)

Rc
recessed

R(d)
Round

Re
Rectangle

RF-E
Round fixed EcoMax

S / SI
Slim

SI-E
Slim EcoMax

Sp-Z
Suspended Zenith

Sq
Square

TW
Tunable White

U19
UGR value ≤ 19

W
Wide beam angle

WH
White

XN
Extra narrow



OPPLE

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