

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 new Smart solutions from page 12.

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 6 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.

OPPLE - SEE BEYOND!



Jeroen Janssen
Managing Director
Opplé 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.



1996
Company founded in Zhongshan, China. Factory built in Guangdong, China

2000
Rollout first China OPPLE brand stores

2004
Start international sales



2009
Opening global HQ in Shanghai, China

2012
Opening new factory and R&D Center in Wujiang, China



2013
Opening Europe HQ in the Netherlands

2016
IPO at Shanghai Stock Exchange



2018
Opplle introduces Smart Bluetooth® system





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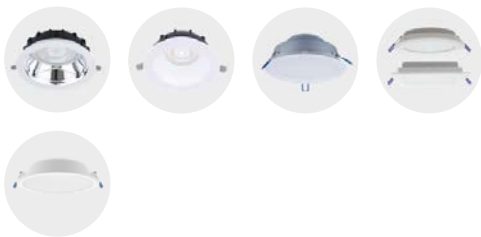
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LED Decorative Luminaires Wall & Ceiling



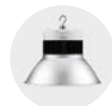
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OPPLE Online

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



@OppleLightingEurope



DOWNLOADCENTER

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





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Get **SMART** with **OPPLE!**

OPPLE's Smart Lighting system is characterised by extremely simple installation: 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 OPPLE Smart Lighting App and extra energy can be saved with the use of the OPPLE Smart Sensors.

Quick and easy lighting system

Wouldn't that be fantastic: a smart lighting system that can be installed with the flick of the wrist as an

addition to an existing system. Without extra wiring, mandatory gateways, servers or drivers. A system in which luminaires can be recessed in the ceiling and can be connected straight out of the box. And the control panel that allows you to control the light directly? That works wirelessly too, it's that easy.

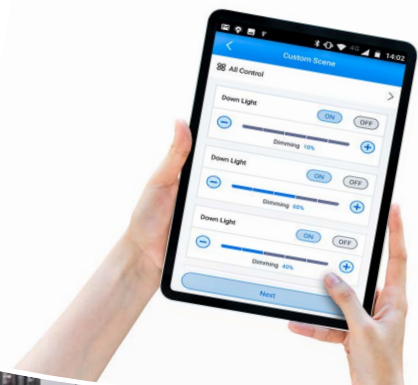
Always the right light scene

OPPLE presents Smart Lighting; a flexible system that allows you to simply set various light scenes for each space. At any moment you can switch to the desired scene, to compliment the activity in the office or school.

*Daylight balance
keeps the light level the same
in every workspace*

How smart do you want it?

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 in a school or warehouse. All luminaires can be controlled with the free OPPLE Smart Lighting App.



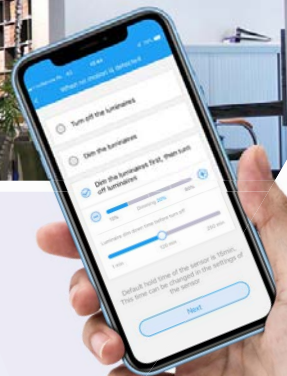


Ideal for all applications

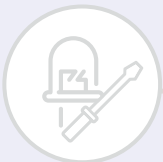
No matter if it's an industrial hall or a classroom, all applications are possible with the OPPLE Smart Lighting System. The corridor feature ensures that the lighting in a space does not go completely out when no one is present, but that it dims automatically to a lower level. All the lighting connected to the Smart Relay responds in line with the OPPLE smart luminaires.

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 and smart relay
- maximum security thanks to coded signals and strict user management
- an excellent and affordable Smart Lighting system



STEP 1



INSTALL

STEP 2



DOWNLOAD
APP

STEP 3



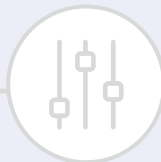
SELECT
LUMINAIRES

STEP 4



SELECT
SPACES

STEP 5



CREATE
SCENES

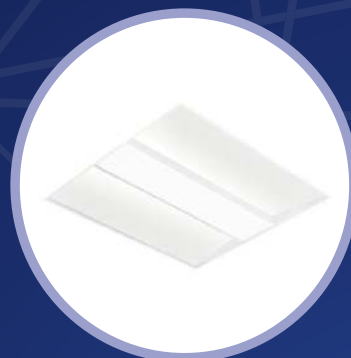


DONE

LED Smart Lighting luminaires



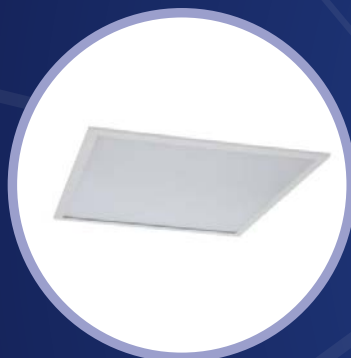
LED Panel Recessed Grille
→ P. 26



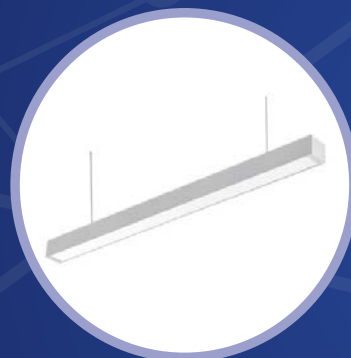
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LED Smart Lighting accessories



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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 App.
- 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.

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.

Want to incorporate the Smart Connect Box as part of your current building management system (BMS)? This is easy to realise using Modbus: the Smart Connect Box can be connected to this and all the data is made available to the existing BMS.





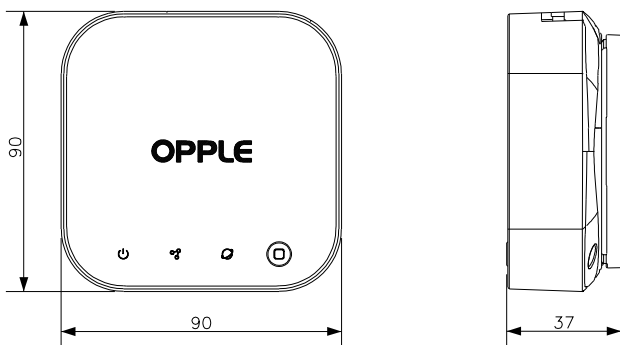
- Monitor energy consumption per building, floor or room
- Remote control of your Smart Lighting project
- Control any type of DALI luminaire via Smart Switch, Smart Sensor or tablet.
- Scheduler: automatically turn on/off luminaires at a specific time or date.
- Connect multiple Smart Projects into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



Specifications

Item Code	Item Description
560000005700	Smart Connect Box

Dimensional drawing (mm)



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	220-240VAC
Frequency	50/60Hz
Built-in DALI power supply	Yes
Output voltage	16VDC
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
- Including temperature- and humidity sensors
- Complete wireless communication via Bluetooth® Low Energy (BLE)



Specifications

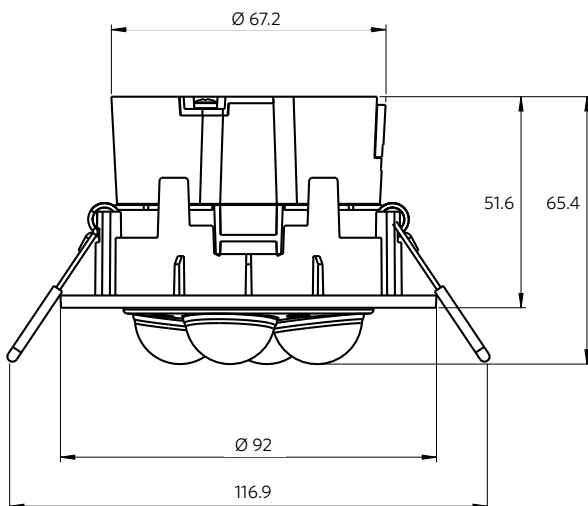
Item Code	Item Description	Sensor range
140063563	LEDSmartlight-Rc-Sensor	10m

Accessories

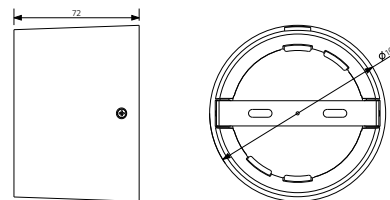


560098000600
LEDSmart-Sensor Surface-Module-WH

Dimensional drawing (mm)



560098000600 LEDSmart-Sensor Surface-Module-WH





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

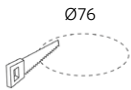
Material housing	PC
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Ambient conditions

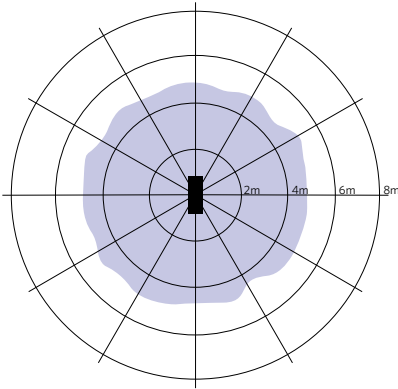
Operating Temperature	-25-30°C
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Installation opening drawing (mm)

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
- 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

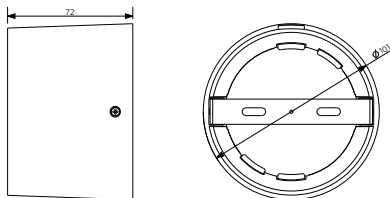


IP65

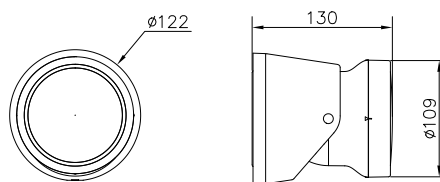
560006001000
LEDsmart-Sensor IP65-Module
Excluding sensor

Dimensional drawing (mm)

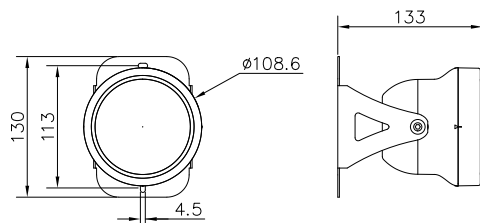
560098000600 LEDsmart-Sensor Surface-Module-WH



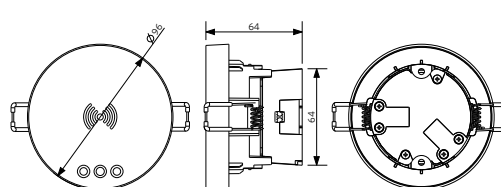
560006000900 LEDsmart-Sensor IP65-Base-Module



560006001000 LEDsmart-Sensor IP65-Module



560000008400 LEDsmartlight-Rc-MW-Sensor





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	Yes
Temperature sensor	Yes
Humidity sensor	Yes

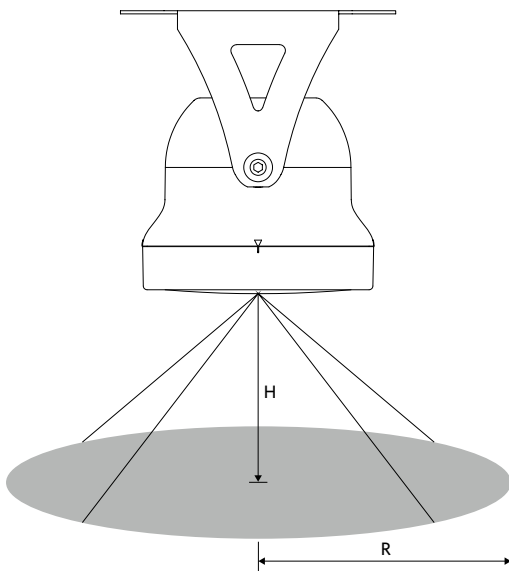
Electrical Supply	
Power consumption	2.2W
Nominal voltage	220-240 V AC
Frequency	50/60 Hz

Mechanical Properties	
Material housing	PC

Ambient conditions	
Operating Temperature	-30-55°C

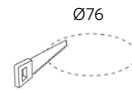
* IP65 only in combination with IP65 assessor modules

Detection range

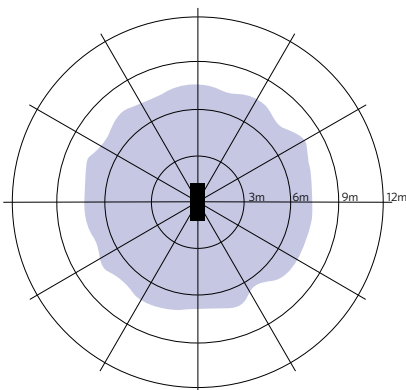


Installation opening drawing (mm)

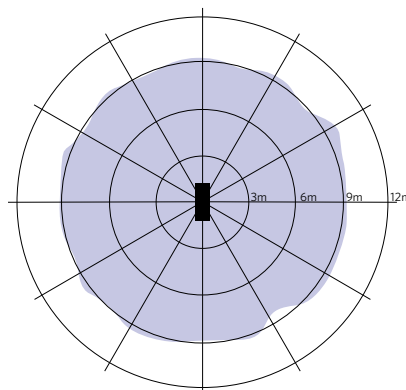
LEDSmartlight-Rc-MW-Sensor



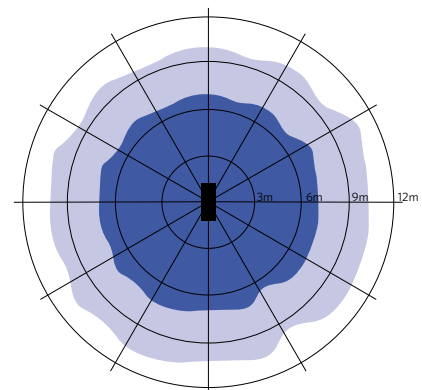
Recommended Height (m)	Sensitivity Setting	Detection Radius (m)
3	Low	7
8	Middle	9
9	High	10
12	High	7



Installation - Low Ceiling
Suggested installation height 3m



Installation - Medium Ceiling
Suggested installation height 8m



Installation - High Ceiling
Suggested installation height 9-12m





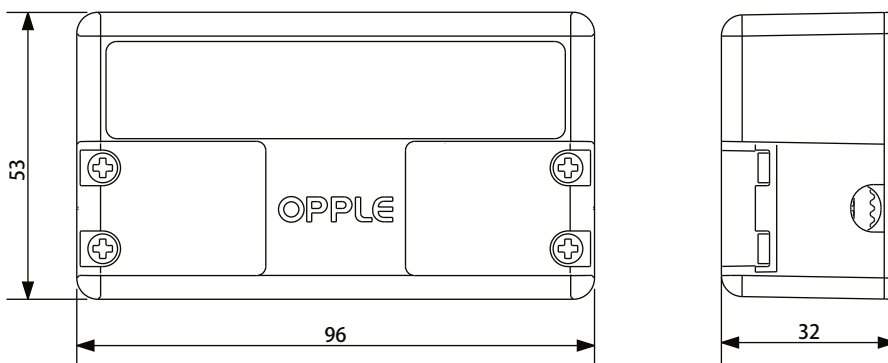
- Smart Relay for use in the OPPLE Smart Lighting System
- Simple wireless control of each type/brand of luminaire
- Compatible with OPPLE Smart Sensors and OPPLE Smart Switches
- Very easy to set up with the OPPLE Smart Lighting App
- Including built-in energy meter
- Completely wireless communication 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	Opplle Bluetooth® Low Energy Mesh
Max. switching capacity	500W LED

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





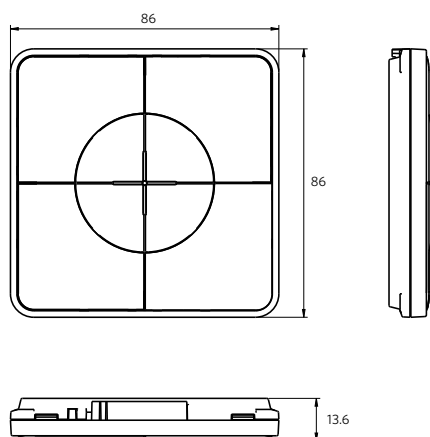
- Completely wireless operating panel for use in OPPLE Smart Lighting Systems
- Simple on/off switching and dimming of the Smart Lighting luminaires
- Equipped with 4 extra button activate created light scenes
- Compatible with OPPLE Smart Sensors
- Extremely simple to set with the OPPLE Smart Lighting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



Specifications

Item Code	Item Description
140063564	LEDSmartlight-Switch

Dimensional drawing (mm)



Can be installed using screws or affixing strip supplied, 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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Lamps & Tools	128
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LED Panel Grille

- NEW: available as Smart Lighting solution (BLE)
- 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 55%



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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
140043969	LEDPanelRc-G Sq298-11W-3000-WH-CT	CFL 2x18W	11	1050	95	3000	1.40
140043970	LEDPanelRc-G Sq298-11W-4000-WH-CT	CFL 2x18W	11	1090	99	4000	1.40
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
140043973	LEDPanelRc-G Re166-21W-3000-WH-CT	TL 1x36W	21	2000	95	3000	3.31
140043974	LEDPanelRc-G Re166-21W-4000-WH-CT	TL 1x36W	21	2090	100	4000	3.31
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
140046183	LEDPanelRc-G Sq298-13W-DALI-3000-WH-CT	CFL 2x18W	13	930	72	3000	1.40
140046184	LEDPanelRc-G Sq298-13W-DALI-4000-WH-CT	CFL 2x18W	13	990	76	4000	1.40
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
140046187	LEDPanelRc-G Re166-21W-DALI-3000-WH-CT	TL 1x36W	21	2000	95	3000	3.31
140046188	LEDPanelRc-G Re166-21W-DALI-4000-WH-CT	TL 1x36W	21	2090	100	4000	3.31
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	2.60
542008008200	LEDPanelRc-G Re298-33W-BLE-4000-WH-CT	TL 2x36W	33	4300	130	4000	2.60

Available on request with 3- or 5- or 3+2 pole Wieland GST18i or Wago WINSTA connector. Emergency lighting available on request.

Accessories



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 (33W DALI/BLE + 13/21W DALI)
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

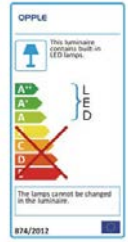
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

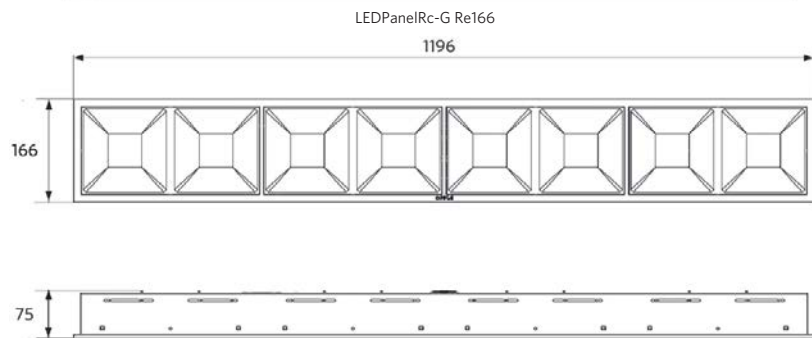
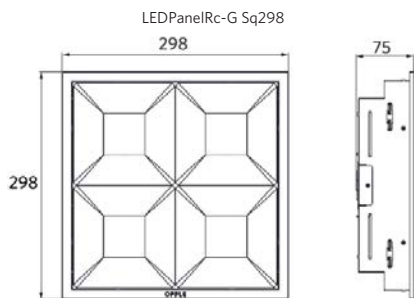
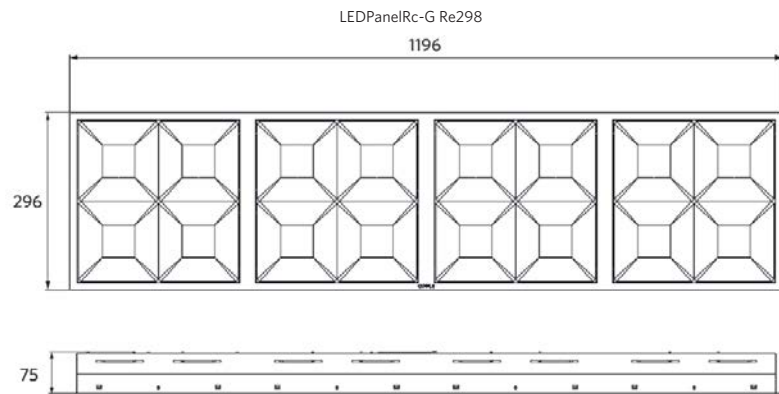
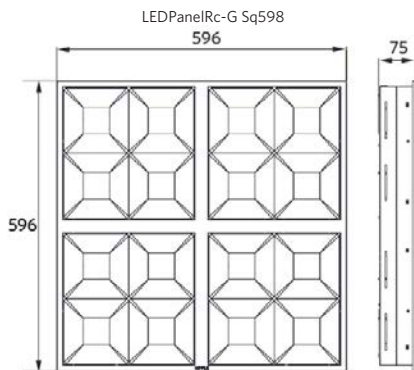
Material housing	Coated Steel
Optical material	Polycarbonate

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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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
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
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
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. DALI2 driver compatible with 230V push dimming.

Accessories

Recessed mounting frame

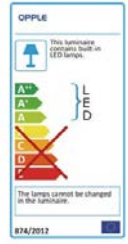


542098009600
LEDPanelRc Sq600-Frame-WH



542098000800
LEDPanelRC-SI U19 EM-kit 1h

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	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	No

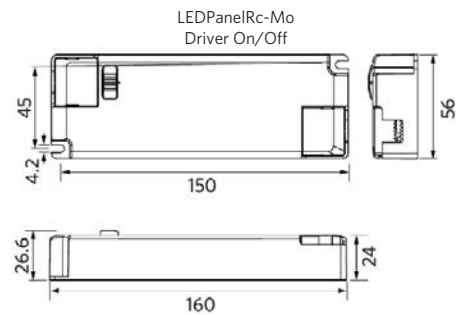
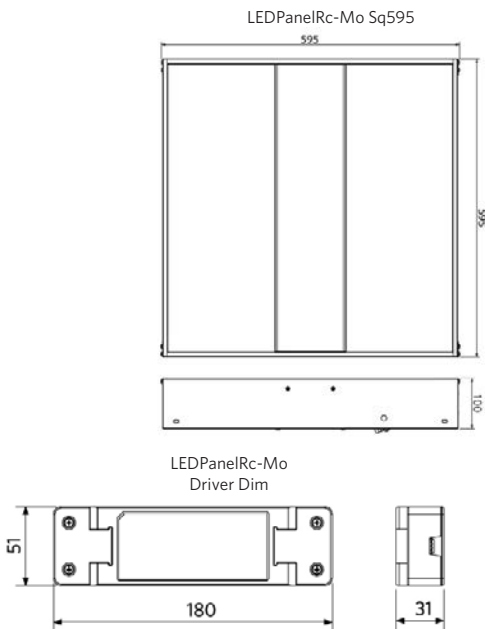
Mechanical Properties

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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
54200800900	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
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
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
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. DALI2 driver compatible with 230V push dimming.

Accessories

Surface mounting frame

Recessed mounting frame

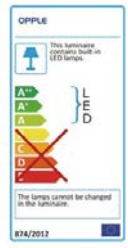


Technical Specifications	
Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	3
Dimmability	On-Off / DALI / BLE / 1-10V
Beam angle	80 °
Finishing	White RAL9003
Colour rendering index CRI	≥ 80
UGR	19
Degree of protection (IP)	IP20
Impact strength	IK02
Protection 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

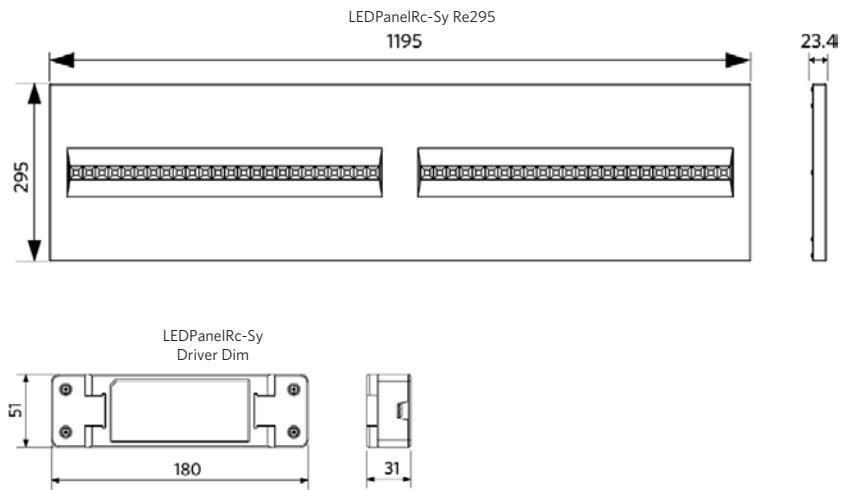
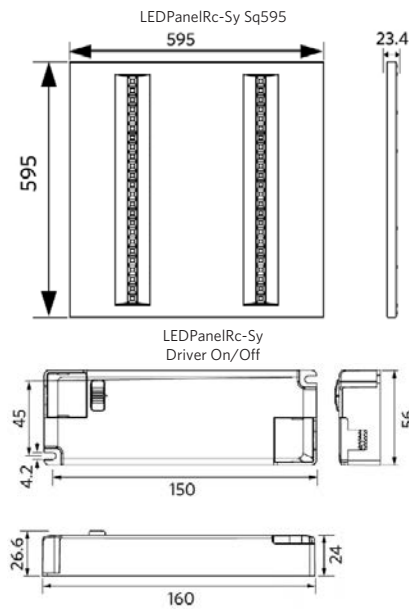
Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

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

- NEW: CRI90 (R9>50) versions available in rectangular size (Re295)
- High quality LED Slim Panel, suitable for offices (UGR19)
- Recessed, suspended and surface mounting possible
- Up to 60% lower energy consumption vs TL



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	542004012800	LEDPanelRc-S4 Sq595-30W-3000-WH-U19	TL 4x18W	30	3300	110	3000	≥ 80	3.05
	542004012900	LEDPanelRc-S4 Sq595-30W-4000-WH-U19	TL 4x18W	30	3500	115	4000	≥ 80	3.05
	542004049800	LEDPanelRc-S4 Sq595-34W-940-WH-U19	TL 4x18W	34	3400	100	4000	≥ 90	3.05
	542004043900	LEDPanelRc-S4 Sq595-35W-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.05
	542004044000	LEDPanelRc-S4 Sq595-35W-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.05
	542004013000	LEDPanelRc-S4 Re295-30W-3000-WH-U19	TL 2x36W	30	3300	110	3000	≥ 80	3.20
	542004013100	LEDPanelRc-S4 Re295-30W-4000-WH-U19	TL 2x36W	30	3500	115	4000	≥ 80	3.20
	542004050000	LEDPanelRc-S4 Re295-34W-940-WH-U19	TL 2x36W	34	3400	100	4000	≥ 90	3.20
	542004044200	LEDPanelRc-S4 Re295-35W-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.20
542004044300	LEDPanelRc-S4 Re295-35W-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.20	
DALI	542004013400	LEDPanelRc-S4 Sq595-30W-DALI-3000-WH-U19	TL 4x18W	30	3300	110	3000	≥ 80	3.05
	542004013500	LEDPanelRc-S4 Sq595-30W-DALI-4000-WH-U19	TL 4x18W	30	3500	115	4000	≥ 80	3.05
	542004050400	LEDPanelRc-S4 Sq595-34W-DALI-940-WH-U19	TL 4x18W	34	3400	100	4000	≥ 90	3.05
	542004044800	LEDPanelRc-S4 Sq595-35W-DALI-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.05
	542004044900	LEDPanelRc-S4 Sq595-35W-DALI-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.05
	542004013600	LEDPanelRc-S4 Re295-30W-DALI-3000-WH-U19	TL 2x36W	30	3300	110	3000	≥ 80	3.20
	542004013700	LEDPanelRc-S4 Re295-30W-DALI-4000-WH-U19	TL 2x36W	30	3500	115	4000	≥ 80	3.20
	542004050600	LEDPanelRc-S4 Re295-34W-DALI-940-WH-U19	TL 2x36W	34	3400	100	4000	≥ 90	3.20
	542004045100	LEDPanelRc-S4 Re295-35W-DALI-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.20
542004045200	LEDPanelRc-S4 Re295-35W-DALI-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.20	
Smart	542004014000	LEDPanelRc-S4 Sq595-30W-BLE-3000-WH-U19	TL 4x18W	30	3300	110	3000	≥ 80	3.05
	542004014100	LEDPanelRc-S4 Sq595-30W-BLE-4000-WH-U19	TL 4x18W	30	3500	115	4000	≥ 80	3.05
	542004051000	LEDPanelRc-S4 Sq595-34W-BLE-940-WH-U19	TL 4x18W	34	3400	100	4000	≥ 90	3.05
	542004045700	LEDPanelRc-S4 Sq595-35W-BLE-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.05
	542004045800	LEDPanelRc-S4 Sq595-35W-BLE-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.05
	542004014200	LEDPanelRc-S4 Re295-30W-BLE-3000-WH-U19	TL 2x36W	30	3300	110	3000	≥ 80	3.20
	542004014300	LEDPanelRc-S4 Re295-30W-BLE-4000-WH-U19	TL 2x36W	30	3500	115	4000	≥ 80	3.20
	542004051200	LEDPanelRc-S4 Re295-34W-BLE-940-WH-U19	TL 2x36W	34	3400	100	4000	≥ 90	3.20
	542004046000	LEDPanelRc-S4 Re295-35W-BLE-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.20
542004046100	LEDPanelRc-S4 Re295-35W-BLE-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.20	

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
542004014600	LEDPanelRc-S4 Sq595-30W-10V-3000-WH-U19	TL 4x18W	30	3300	110	3000	≥ 80	3.05
542004014700	LEDPanelRc-S4 Sq595-30W-10V-4000-WH-U19	TL 4x18W	30	3500	115	4000	≥ 80	3.05
542004051600	LEDPanelRc-S4 Sq595-34W-10V-940-WH-U19	TL 4x18W	34	3400	100	4000	≥ 90	3.05
542004046600	LEDPanelRc-S4 Sq595-35W-10V-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.05
542004046700	LEDPanelRc-S4 Sq595-35W-10V-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.05
542004014800	LEDPanelRc-S4 Re295-30W-10V-3000-WH-U19	TL 2x36W	30	3300	110	3000	≥ 80	3.20
542004014900	LEDPanelRc-S4 Re295-30W-10V-4000-WH-U19	TL 2x36W	30	3500	115	4000	≥ 80	3.20
542004051800	LEDPanelRc-S4 Re295-34W-10V-940-WH-U19	TL 2x36W	34	3400	100	4000	≥ 90	3.20
542004046900	LEDPanelRc-S4 Re295-35W-10V-3000-WH-U19	TL 4x18W	35	3800	110	3000	≥ 80	3.20
542004047000	LEDPanelRc-S4 Re295-35W-10V-4000-WH-U19	TL 4x18W	35	4000	115	4000	≥ 80	3.20

Available on request with 3- or 5- or 3+2 pole Wieland GST18i or Wago WINSTA connector. DALI2 versions are compatible with central emergency lighting according to EN 50172. BLE versions are not compatible with surface module accessories. DALI2 driver compatible with 230V push dimming.

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 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
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	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	PMMA
Cover material	Polystyrene

Ambient Conditions

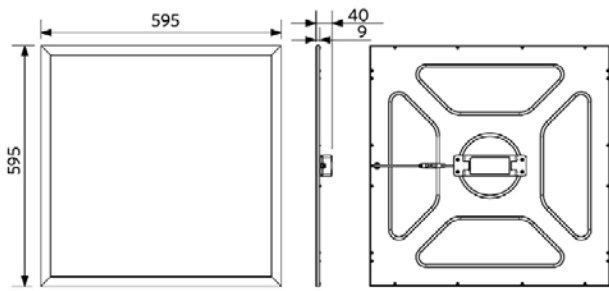
Operating temperature	-25 ~ 40 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C



07/2012

Dimensional Drawing (mm)

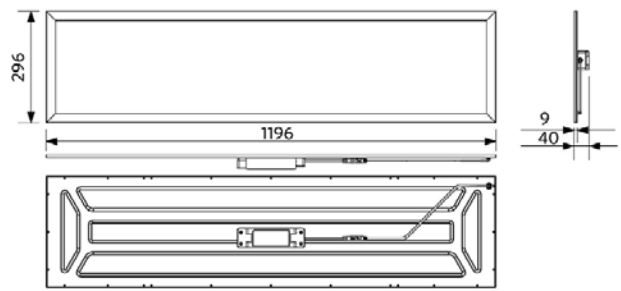
LEDPanelRc-S4 Sq595



LEDPanelRc-S
Driver



LEDPanelRc-S4 Re295





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)
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-Kit-WH



542098009800
LEDPanelRc Re300-Frame-Kit-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

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

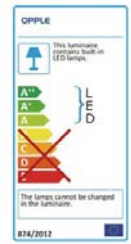
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

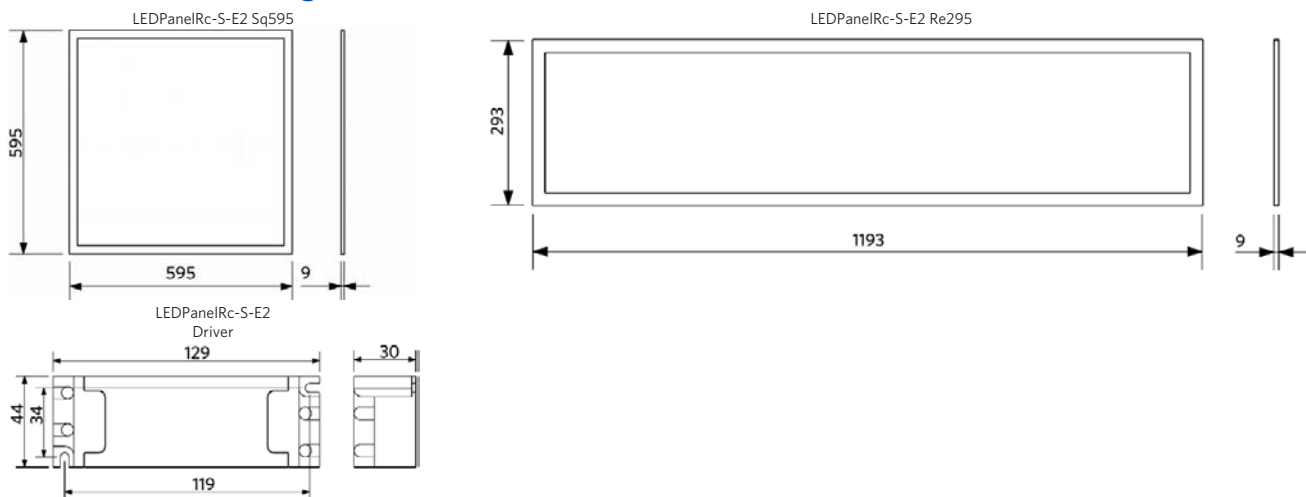
Material housing	Aluminium
Optical material	Polystyrene
Cover material	Polycarbonate (PC)

Ambient Conditions

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



Dimensional Drawing (mm)





LED Slim Panel Basic G2

- Cost effective LED Slim Panel
- Improved efficiency of 97 Lm/w
- Recessed ceiling frame and surface module kit available as accessory
- Suitable for recessed and suspended applications
- Replacement for conventional 4x18W 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)
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

Accessories

Surface mounting frame	Recessed mounting frame		
			
<p>542098017600 LEDPanelRc2 Sq600-Surface-Kit-WH</p>	<p>542098009600 LEDPanelRc Sq600-Frame-WH</p>	<p>542003021800 LEDPanelRc-S-B2 Mounting-Springs</p>	<p>542003021700 LEDPanelRc-S-B2 Suspension-Kit</p>

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

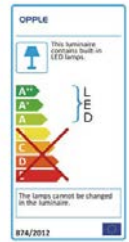
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Polystyrene
Cover material	Polystyrene

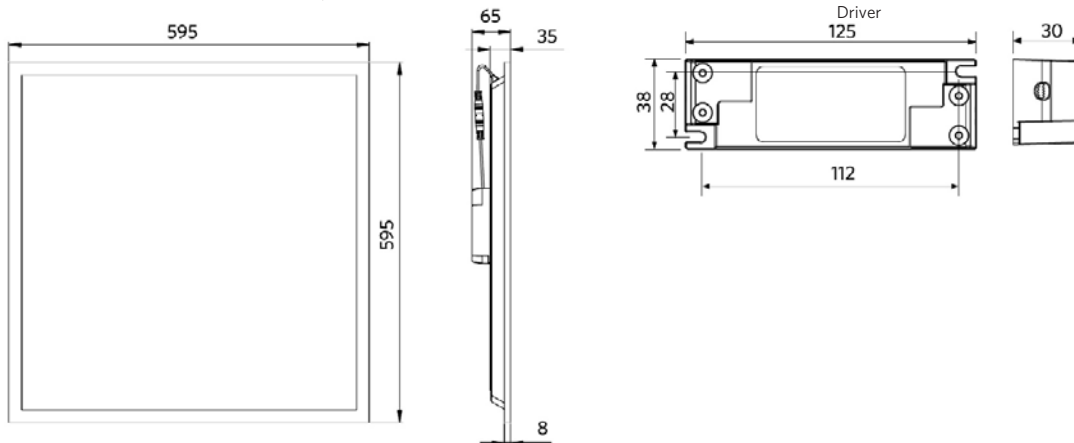
Ambient Conditions

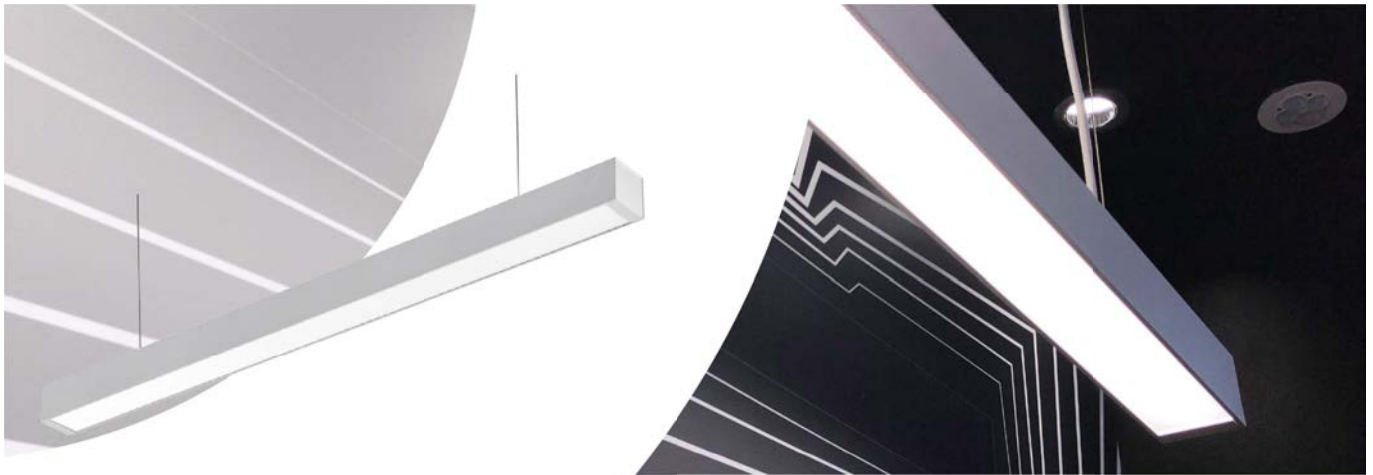
Operating temperature	-10 ~ 45 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C



Dimensional Drawing (mm)

LEDPanelRc-S-B2 Sq595-36W





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)
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
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 lighting available on request.

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	Yes, see Appendix 3

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
- DALI and Smart Lighting (BLE) versions available



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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
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	DALI / BLE
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	Yes, see Appendix 3

Mechanical Properties

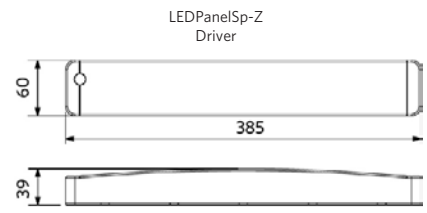
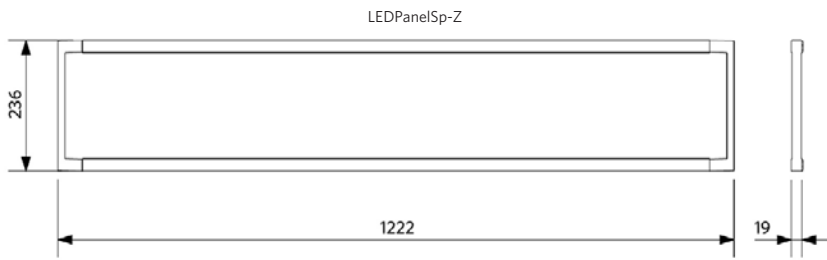
Material housing	Aluminium
Optical material	PMMA
Cover material	Semi-opaque PMMA

Ambient Conditions

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



Dimensional Drawing (mm)



SMART

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TECHNICAL DATA

GLOSSARY





LED Downlight Performer HG

- 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 (light output 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	

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
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
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

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



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



549098001400
LEDDownlightRc-P EM-kit 3h

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

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

549098001300
LEDDownlightRc-P EM-kit 1h

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

See appendix for adapter ring dimensional drawings.

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
Degree of protection (IP)	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

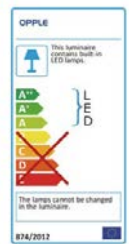
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Die-casted Aluminum
Optical material	Polycarbonate

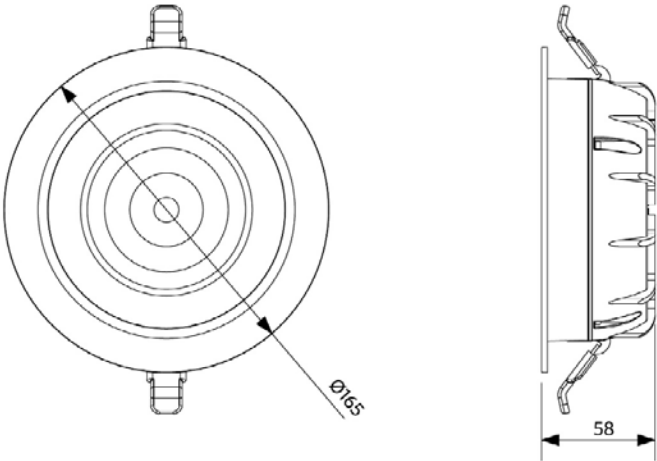
Ambient Conditions

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

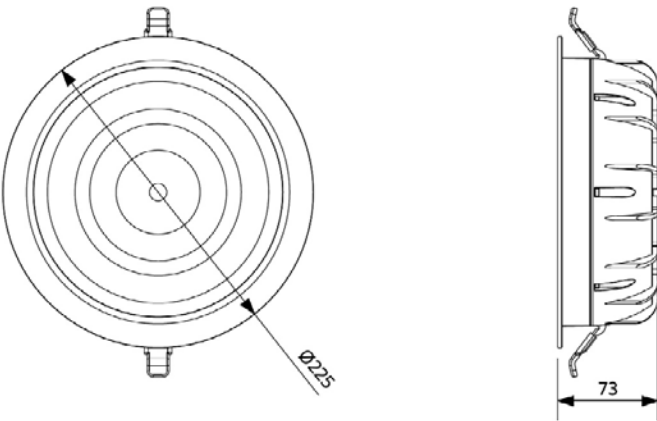


Dimensional Drawing (mm)

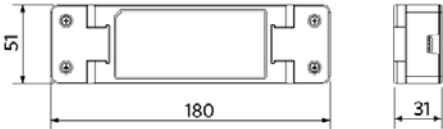
LEDDownlightRc-P-HG R150



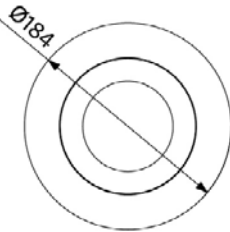
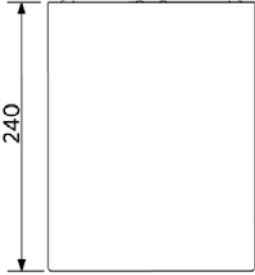
LEDDownlightRc-P-HG R200



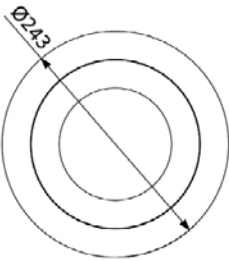
LEDDownlight Driver



LEDDownlightRc-P-R150-Surface-Module



LEDDownlightRc-P-R200-Surface-Module



Installation Opening Drawing (mm)

LEDDownlightRc-P-HG R150
Ø150



LEDDownlightRc-P-HG R200
Ø200





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TECHNICAL DATA

GLOSSARY



LED Downlight Performer MW

- 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 (light output 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 2x32W	33	3630	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 2x32W	33	3630	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	

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	UGR	CCT (K)	Colour rendering index CRI	Weight (kg/pc)
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
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 2x32W	33	3630	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

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



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



549098001400
LEDDownlightRc-P EM-kit 3h

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

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

549098001300
LEDDownlightRc-P EM-kit 1h

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

See appendix for adapter ring dimensional drawings.

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
Degree of protection (IP)	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

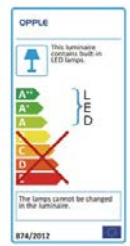
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Die-casted Aluminum
Optical material	Polycarbonate

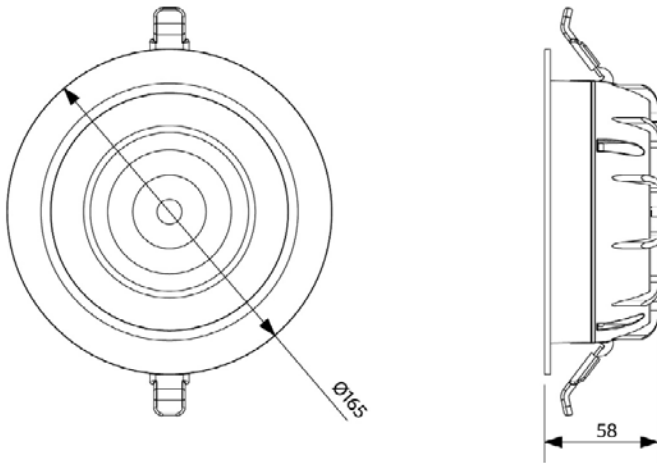
Ambient Conditions

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

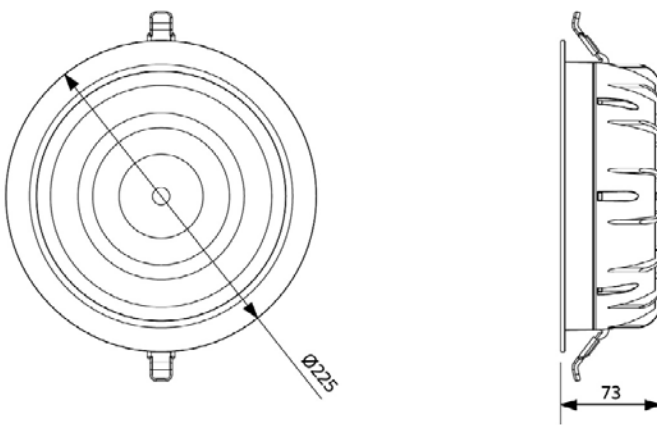


Dimensional Drawing (mm)

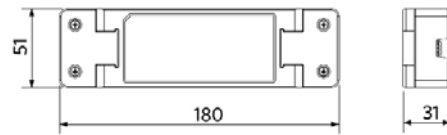
LEDDownlightRc-P-MW R150



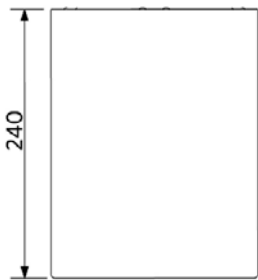
LEDDownlightRc-P-MW R200



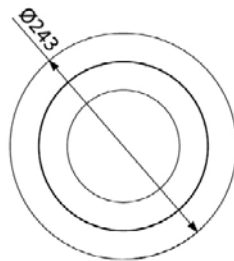
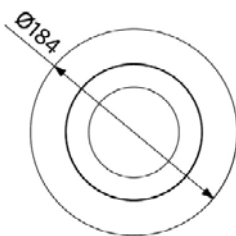
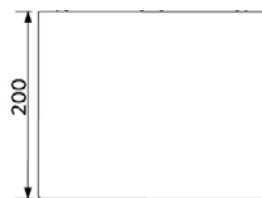
LEDDownlight Driver



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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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



140060650
LEDDownlightRc-HZdim-Adapter-125-150



140060649
LEDDownlightRc-HZdim-Adapter-200-250

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

140060652
LEDDownlightRc-HZdim-Adapter-200-225

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
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	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

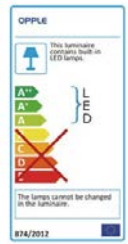
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

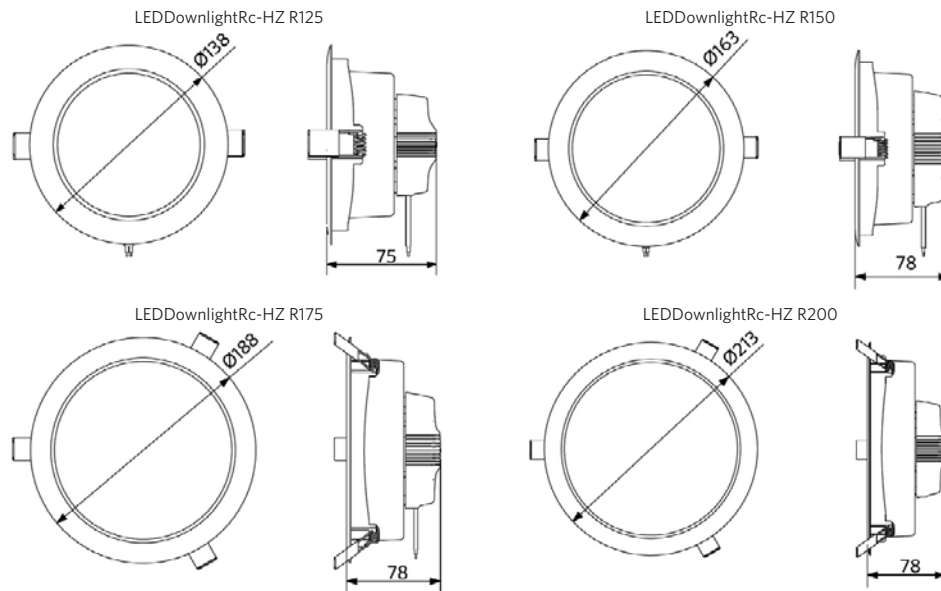
Material housing	Aluminum + Polycarbonate
Optical material	Polycarbonate

Ambient Conditions

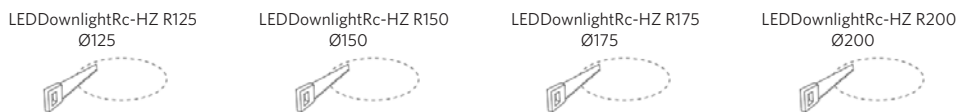
Operating temperature	-10 ~ 40 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C



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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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

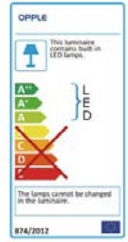


140060653
LEDDownlightRc-SI-E-Adapter-150-175

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

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

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
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	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

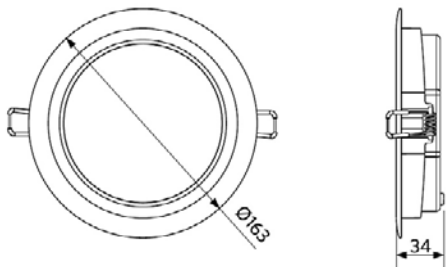
Material housing	Plastic
Optical material	Polycarbonate

Ambient Conditions

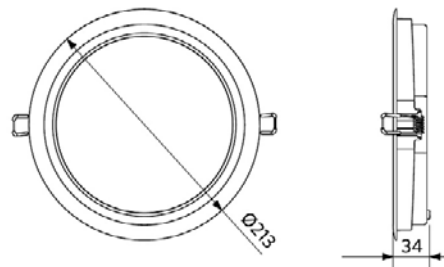
Operating temperature	-10 ~ 40 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C

Dimensional Drawing (mm)

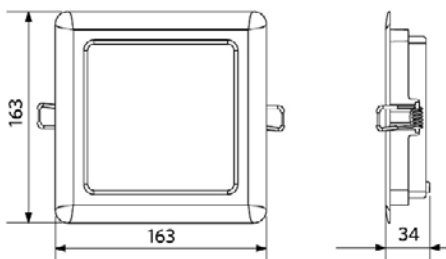
LEDDownlightRc-SI-E Rd150



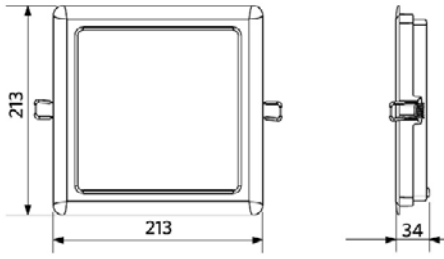
LEDDownlightRc-SI-E Rd200



LEDDownlightRc-SI-E Sq150



LEDDownlightRc-SI-E Sq200



Installation Opening Drawing (mm)

LEDDownlightRc-SI-E Rd150
Ø150LEDDownlightRc-SI-E Rd200
Ø200LEDDownlightRc-SI-E Sq150
150 x 150LEDDownlightRc-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)
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

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

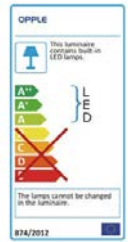
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

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

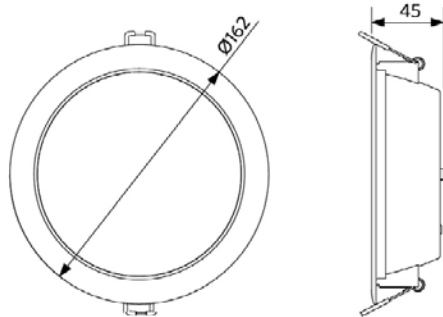
Ambient Conditions

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

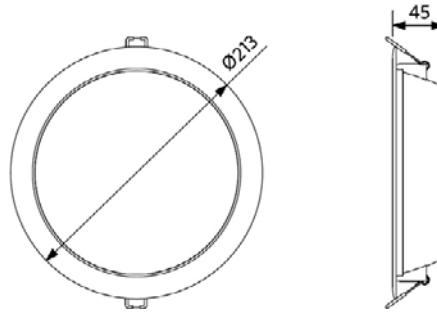


Dimensional Drawing (mm)

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: highly compact dimmable 12W version available
- 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
- Equipped with Global track adapters
- 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)
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

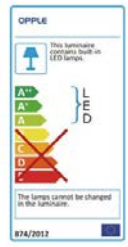
Accessories



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 (12W)
Maximum tilt angle	85 °
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	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	Yes, see Appendix 3

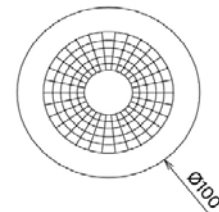
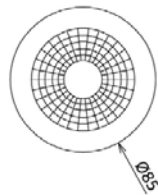
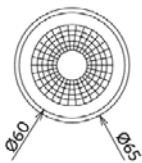
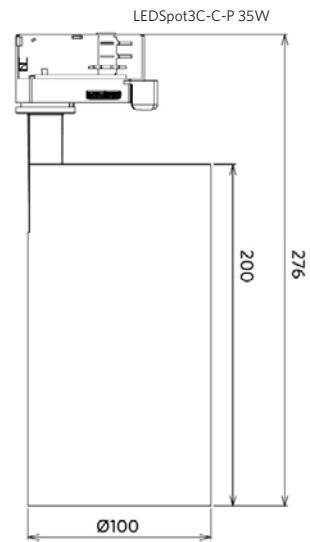
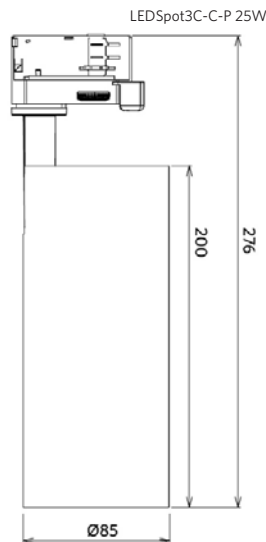
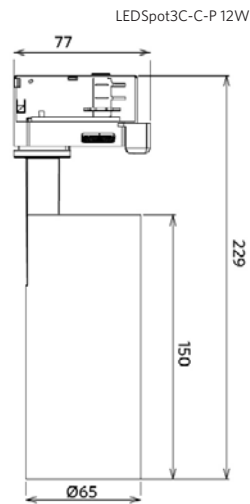
Mechanical Properties

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

- Attractive design with classic cylinder and box shapes fit easily into shop architectures
- High lumen packages with high efficacy: up to 3,600 lm and 85 lm/W
- Equipped with original Global track adapters
- Fitting common Global/Nordic Aluminum® 3C Tracks - any 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)
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
140058472	LEDSpot3C-P 45W-3000-36D-WH	HID 70W	45	3375	75	3000	36 °	1.60
140058480	LEDSpot3C-P 45W-4000-36D-WH	HID 70W	45	3600	80	4000	36 °	1.60
140058476	LEDSpot3C-P 45W-3000-36D-BL	HID 70W	45	3375	75	3000	36 °	1.60
140058484	LEDSpot3C-P 45W-4000-36D-BL	HID 70W	45	3600	80	4000	36 °	1.60

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	Yes, see Appendix 3

Mechanical Properties

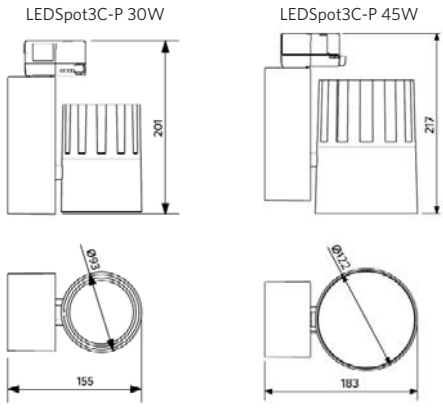
Material housing	Die-casted Aluminum
Optical material	Coated Polycarbonate
Lens material	Plastic (PC)

Ambient Conditions

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



Dimensional Drawing (mm)





LED Spot EcoMax 3C

- Compact cost effective track spot
- Equipped with Global track adapter
- 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)
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	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Coated
Lens material	Polycarbonate

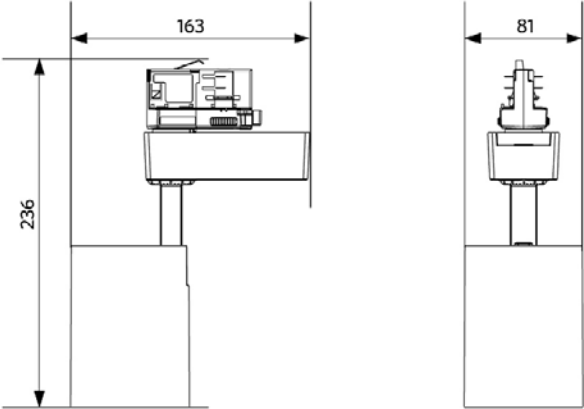
Ambient Conditions

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 DALI solution



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
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
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
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
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

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	No

Mechanical Properties

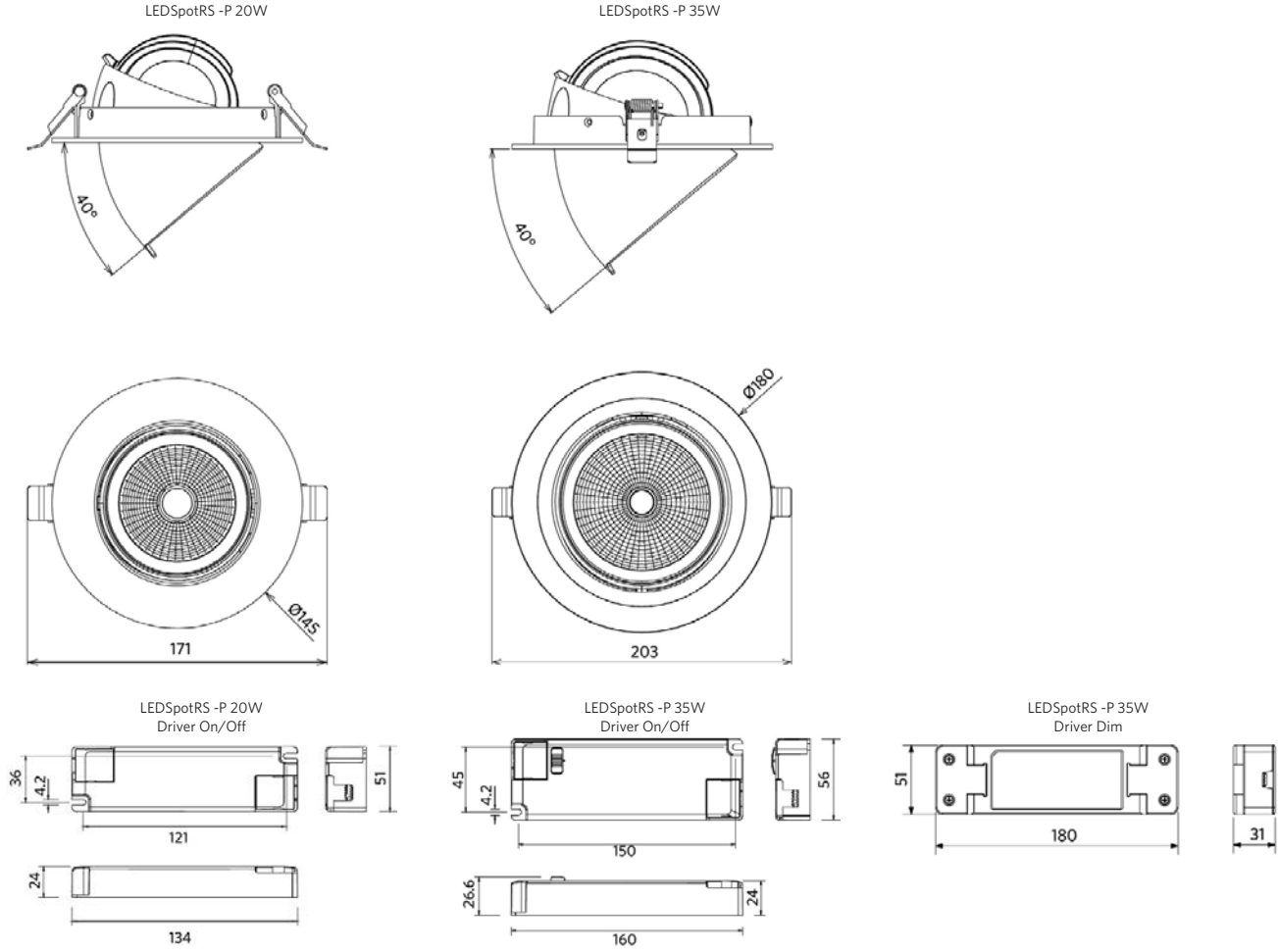
Material housing	Aluminium
Optical material	Coated Polycarbonate

Ambient Conditions

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



Dimensional Drawing (mm)



Installation Opening Drawing (mm)





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)
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

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	Yes, see Appendix 3

Mechanical Properties

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

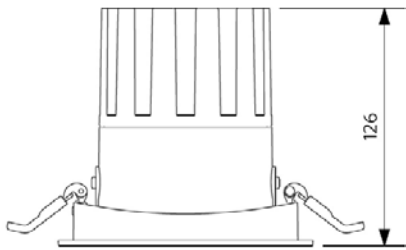
Ambient Conditions

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

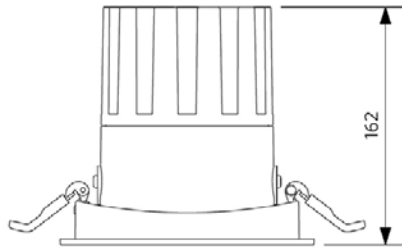


Dimensional Drawing (mm)

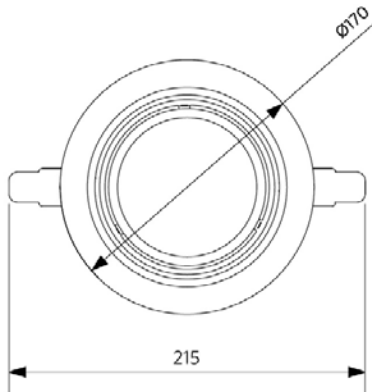
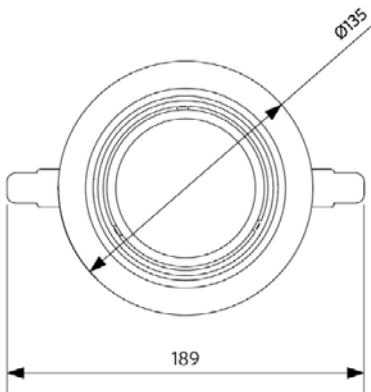
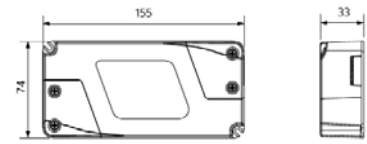
LEDSpotRA-P 30W



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)
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.

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

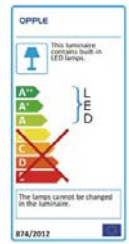
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

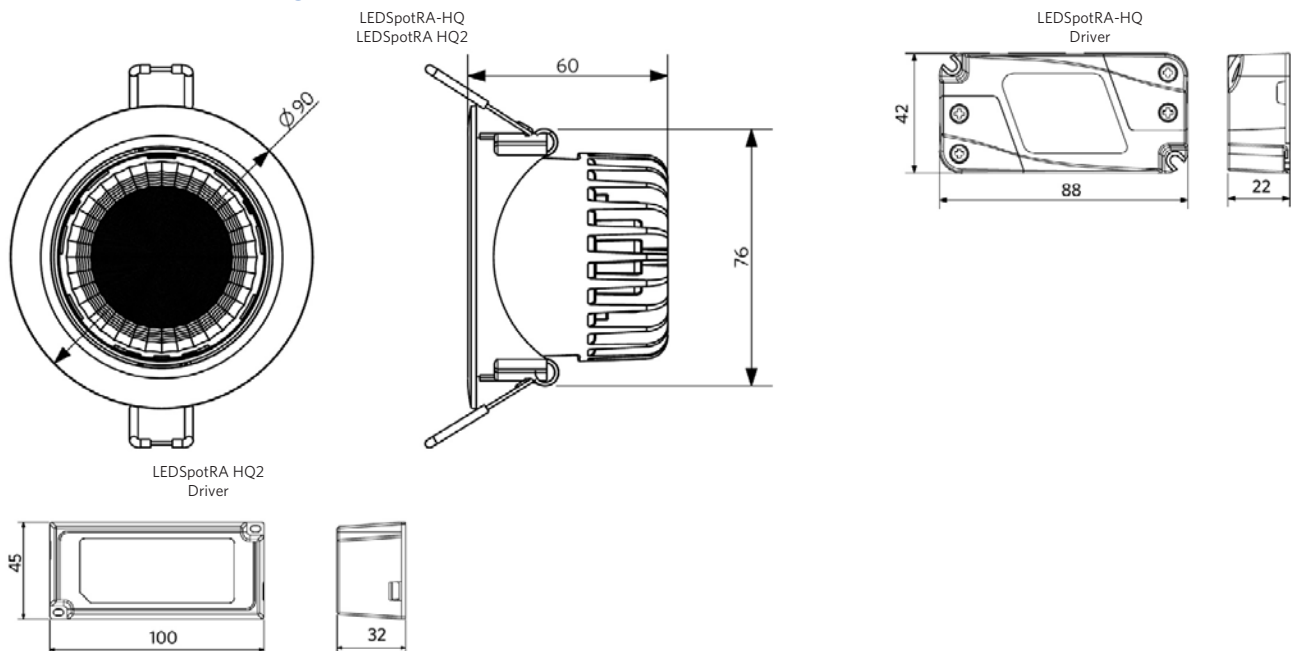
Material housing	Aluminum + Polycarbonate
Optical material	Coated Polycarbonate

Ambient Conditions

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



Dimensional Drawing (mm)



Installation Opening Drawing (mm)

LEDSpotRA-HQ
LEDSpotRA HQ2
Ø80





LED Recessed Spot Ava

- Stylish recessed LED Spot
- Energy saving up to 80% in comparison to a traditional light source
- Tilttable, also for IP44 versions
- 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)	Degree of protection (IP)	Weight (kg/pc)
140049621	LED HRS 7W Dim 2700K 30D Ava BA CT	Halogen 35W	7	310	44	2700	IP20	0.20
140049619	LED HRS 7W Dim 2700K 30D Ava MW CT	Halogen 35W	7	310	44	2700	IP20	0.20
140058060	LED HRS 7W Dim 2700K 30D Ava IP44 BA	Halogen 35W	7	330	50	2700	IP44	0.34
140058061	LED HRS 7W Dim 2700K 30D Ava IP44 MW	Halogen 35W	7	330	50	2700	IP44	0.34
140049627	LED HRS 9W Dim 2700K 30D Ava BA CT	Halogen 50W	9	430	47	2700	IP20	0.29
140049625	LED HRS 9W Dim 2700K 30D Ava MW CT	Halogen 50W	9	430	47	2700	IP20	0.29

See appendix for dimmer compatibility list.

Technical Specifications

Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	50,000
Dimmability	Triac
Beam angle	30 °
Maximum tilt angle	25 °
Finishing	Brushed Aluminium / Matte white
Colour rendering index CRI	≥ 80
Protection class	II
With control gear	Yes

Electrical Supply

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

Mechanical Properties

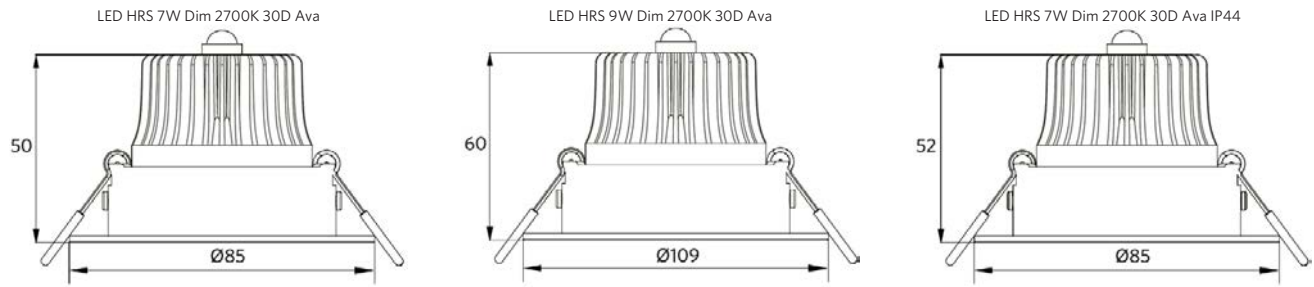
Material housing	Aluminium
Optical material	Polycarbonate

Ambient Conditions

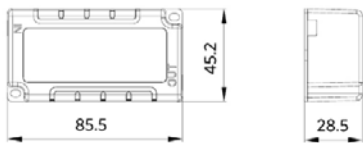
Operating temperature	-20 ~ 40 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C



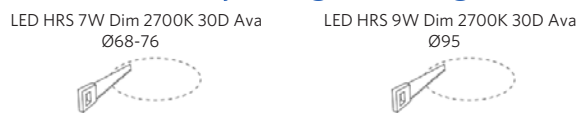
Dimensional Drawing (mm)



LED HRS 7W Dim 2700K 30D Ava
Driver



Installation Opening Drawing (mm)





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
- 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)
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

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	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

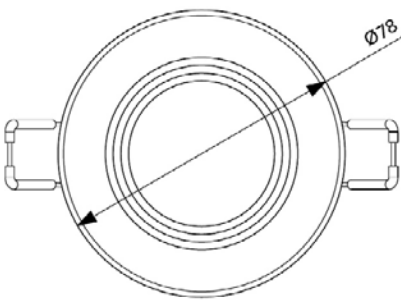
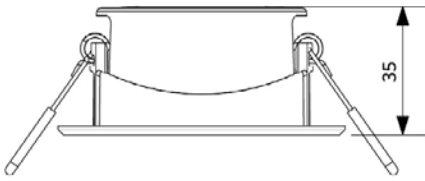
Ambient Conditions

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



Dimensional Drawing (mm)

LEDSpotRF-E



Installation Opening Drawing (mm)

LEDSpotRF-E
 $\text{Ø}68$





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

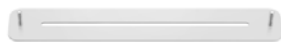
Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
520020000100	LED HC300 12W 2700K Apollo III	GLS 75W	12	1000	83	2700	A+	0.43
520020000200	LED HC300 12W 4000K Apollo III	GLS 75W	12	1100	91	4000	A+	0.43
520021000300	LED HC350 16W 2700K IP44 Apollo III	GLS 100W	16	1300	81	2700	A+	0.59
520021000400	LED HC350 16W 4000K IP44 Apollo III	GLS 100W	16	1400	87	4000	A+	0.59
520021000700	LED HC350 22W DIM 2700K IP44 Apollo	GLS 100W	22	1500	68	2700	A	0.59
520021000800	LED HC350 22W DIM 4000K IP44 Apollo	GLS 100W	22	1600	73	4000	A	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
Degree of protection (IP)	IP20 / IP44
Impact strength	IK03
Protection class	I
Risk group (EN 62471)	RG0
With control gear	Yes

Electrical Supply

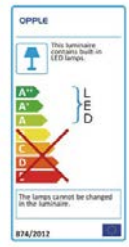
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

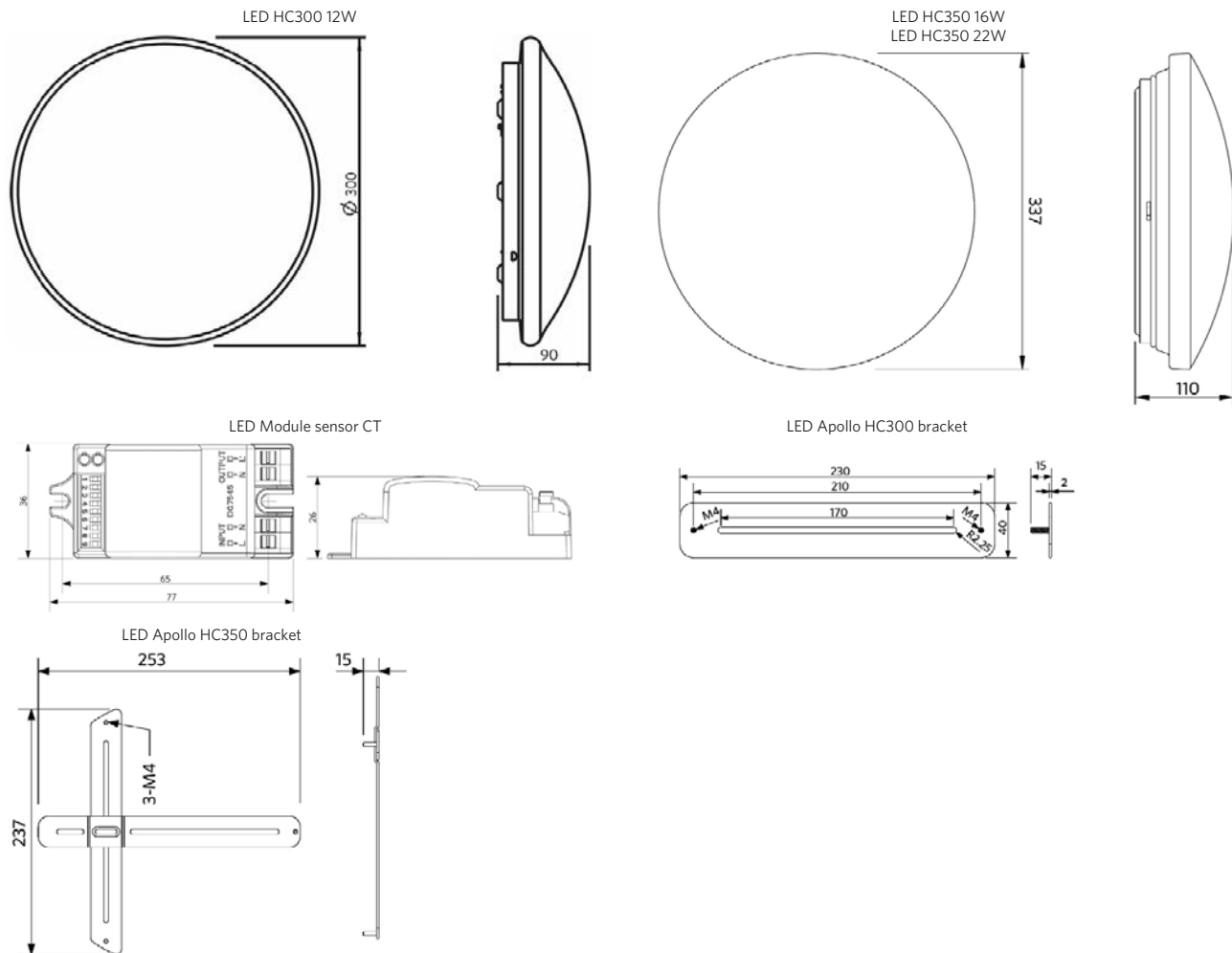
Material housing	Steel
Optical material	Polycarbonate

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)
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

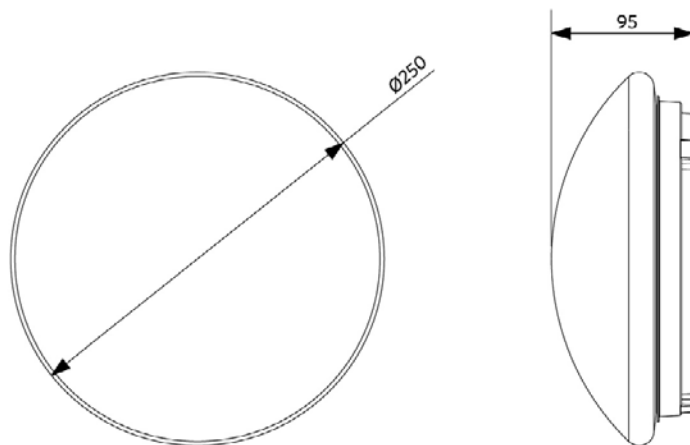
Ambient Conditions

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

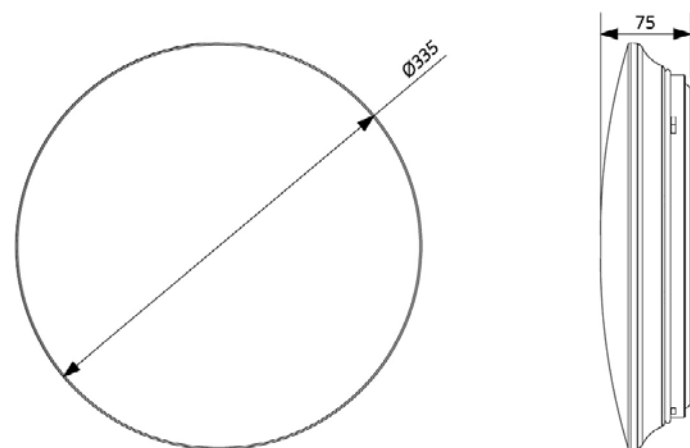


Dimensional Drawing (mm)

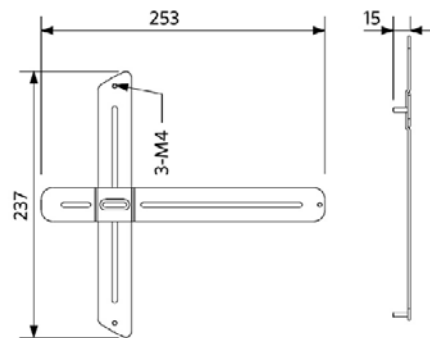
LED HC260
12W



LED HC350
17W & 23W



LED Apollo HC350 bracket





LED Linear EcoMax

- Easy to install LED linear solution
- Elegant but sturdy design: IP44 and IK06
- Comfortable light due to opal diffuser
- Central or side power connection
- Available in 1200mm and 1500mm versions
- Perfect 2x36W or 2x58W TL replacement



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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 lighting available on request.

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

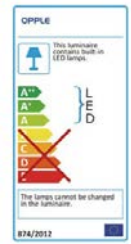
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Aluminium
Optical material	PMMA

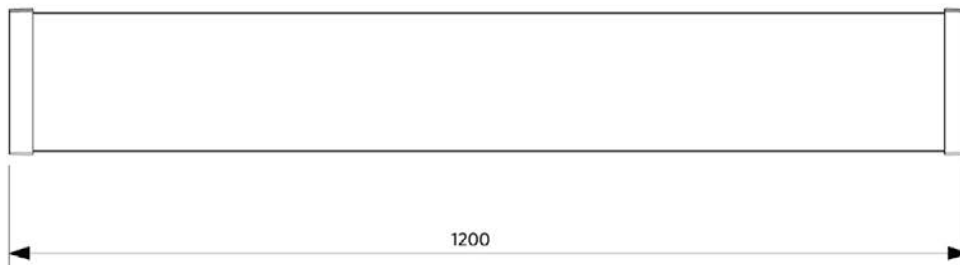
Ambient Conditions

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

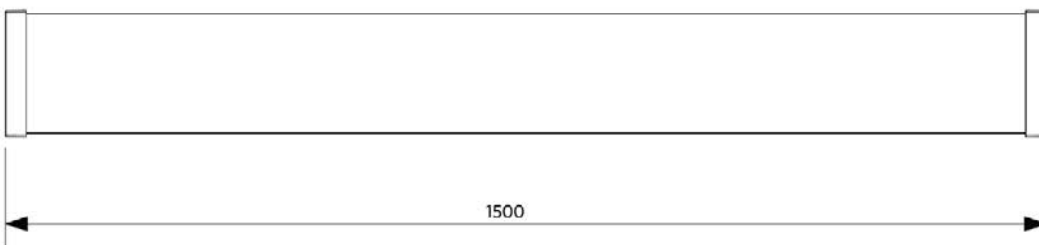


Dimensional Drawing (mm)

LEDLinear-E CL12



LEDLinear-E CL15





LED T8 Batten

- 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)
140063301	LED T8 Batten 600mm 19W 3000K CT	TL 2x18W	19	1800	95	3000	0.51
140063302	LED T8 Batten 600mm 19W 4000K CT	TL 2x18W	19	1900	100	4000	0.51
140063303	LED T8 Batten 600mm 19W 6500K CT	TL 2x18W	19	1900	100	6500	0.51
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

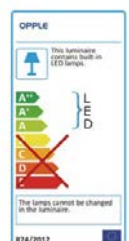
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Aluminium
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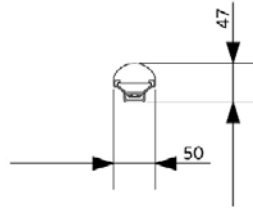
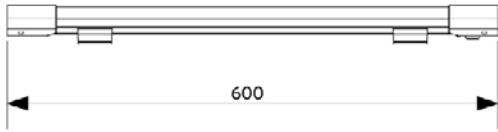
Ambient Conditions

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



Dimensional Drawing (mm)

LED T8 Batten 600mm



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)
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
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

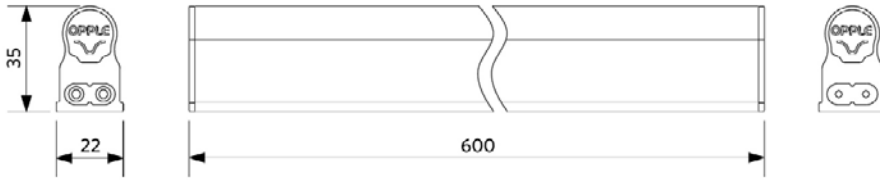
Mechanical Properties	
Material housing	Polycarbonate (PC)

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

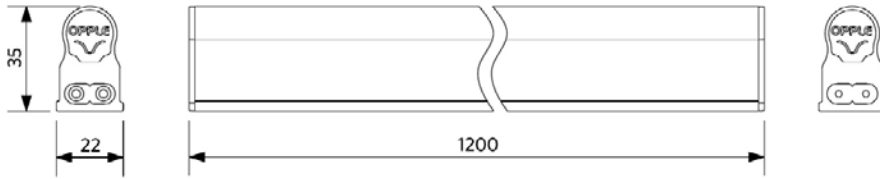


Dimensional Drawing (mm)

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)
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

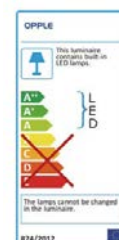
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
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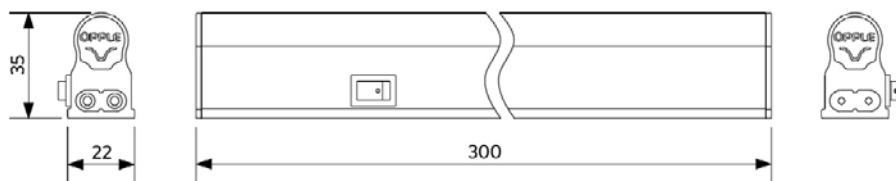
Ambient Conditions

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

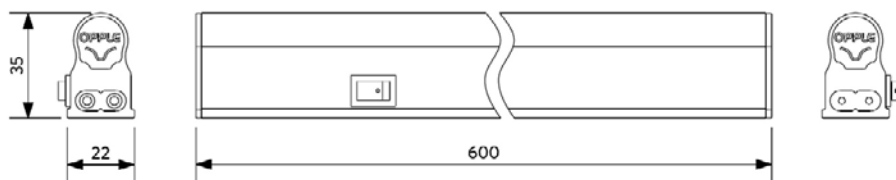


Dimensional Drawing (mm)

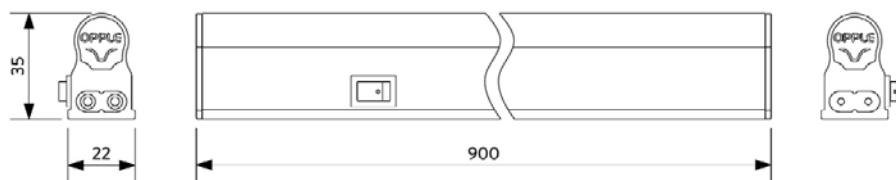
LED E T5 batten 300



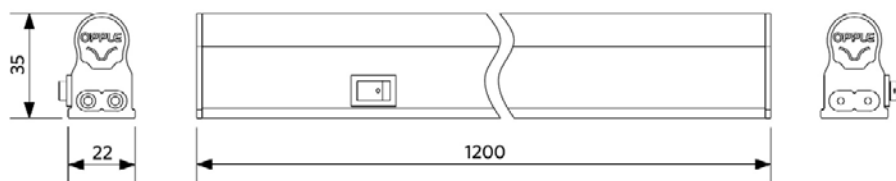
LED E T5 batten 600



LED E T5 batten 900



LED E T5 batten 1200



Accessories



Accessories included





LED Lowbay

- NEW: prismatic reflector accessory available for the 80W version
- 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)
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

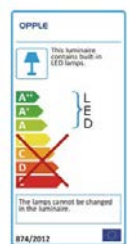
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

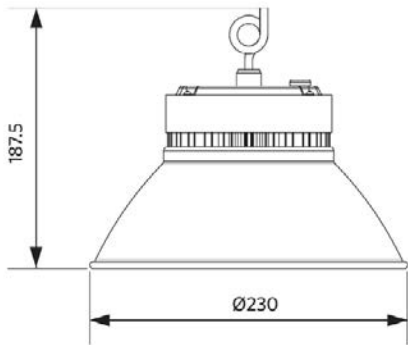
Ambient Conditions

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

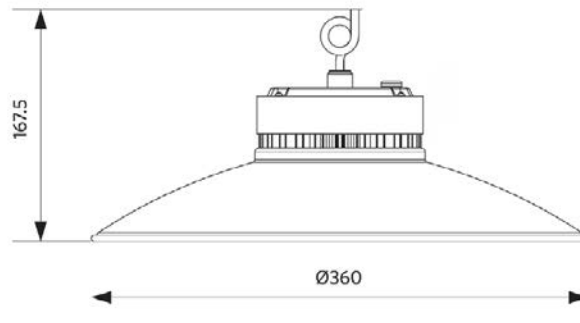


Dimensional Drawing (mm)

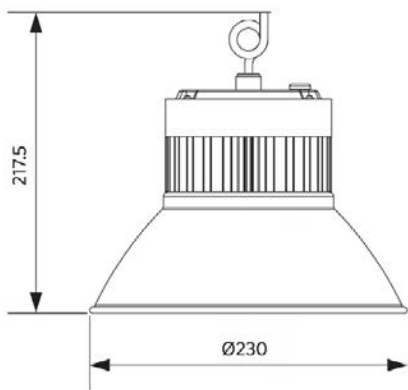
LEDLowbay-E 30W-4000-60D



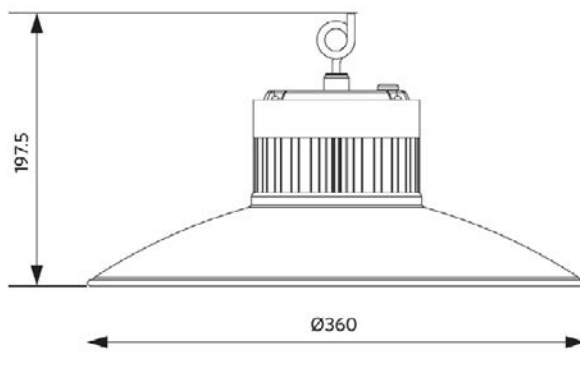
LEDLowbay-E 30W-4000-120D



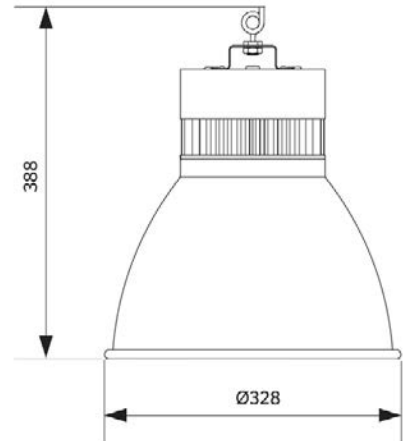
LEDLowbay-E 50W-4000-60D



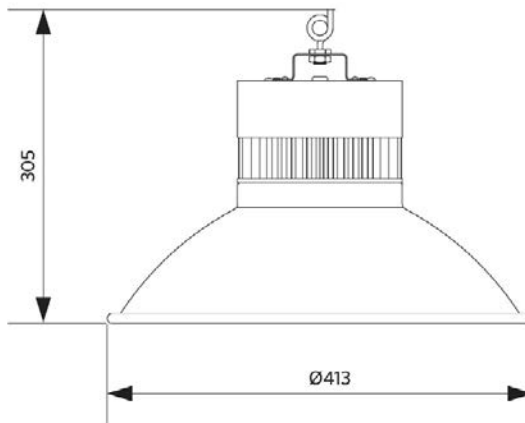
LEDLowbay-E 50W-4000-120D



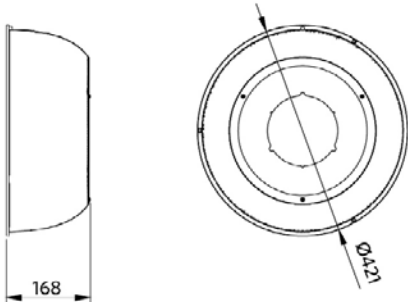
LEDLowbay-E 80W-4000-60D



LEDLowbay-E 80W-4000-90D



Lowbay-PC-Reflector-80W





LED Highbay Performer G4

- NEW: Integrated Motion Sensor version available
- High quality LED Highbay solution with advanced ultra slim design
- Available in DALI 2.0 to ensure high compatibility
- Available as Smart Lighting solution (BLE)
- Up to 40% weight reduction compared to Highbay Performer G3
- Equipped with IP68 connector



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 °	3.20
	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 °	3.20	
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	
DALI	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
	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

	Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
DALI	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 °	3.20
	545001001300	LEDHighbay-P4 155W-DALI-4000-60D	HID 400W	155	20000	130	4000	60 °	3.20
	545001003800	LEDHighbay-P4 155W-DALI-4000-60x100D	HID 400W	155	20000	130	4000	60 ° x 100 °	3.20
	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 °	3.20
	545001001500	LEDHighbay-P4 230W-DALI-4000-60D	HID 600W	230	30000	130	4000	60 °	3.20
	545001004000	LEDHighbay-P4 230W-DALI-4000-60x100D	HID 600W	230	30000	130	4000	60 ° x 100 °	3.20
	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	
MD	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	

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



Accessories



545098000600
LEDHighbay-P4 Bracket-D420

545098000500
LEDHighbay-P4 Bracket-D330



545098003600
LEDHighbay-P4 Reflector-D420

545098003500
LEDHighbay-P4 Reflector-D330



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 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

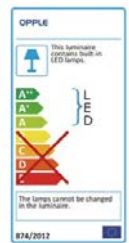
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

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

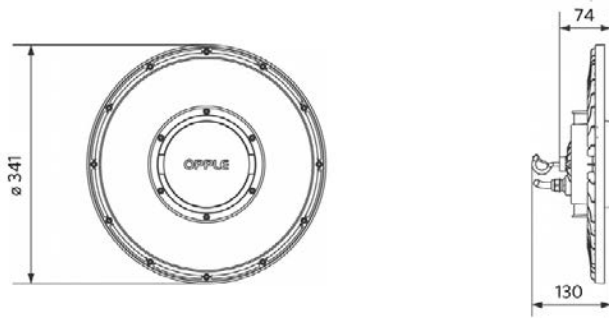
Ambient Conditions

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

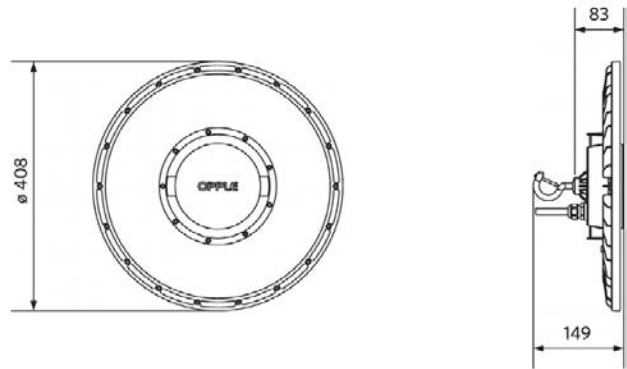


Dimensional Drawing (mm)

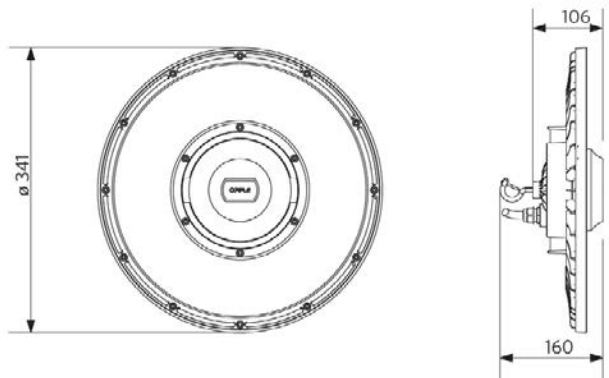
LEDHighbay-P4
80W & 115W



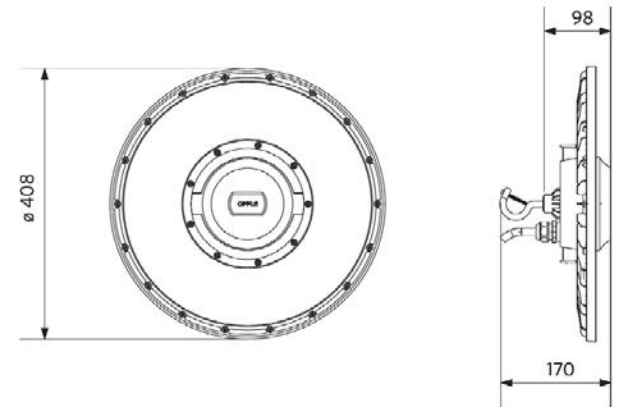
LEDHighbay-P4
155W & 230W



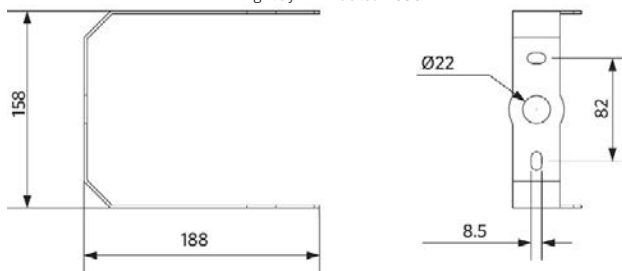
LEDHighbay-P4
80W & 115W Motion Detection



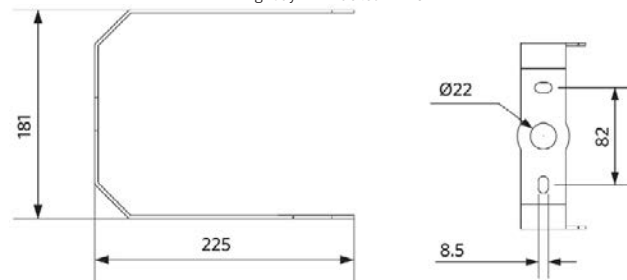
LEDHighbay-P4
155W & 230W Motion Detection

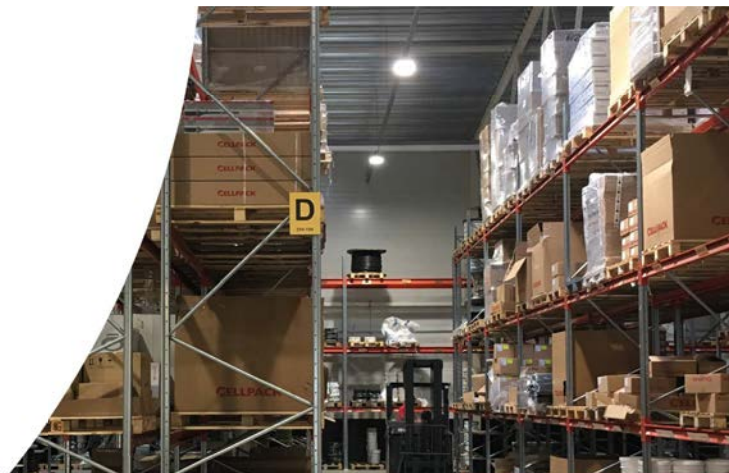


LEDHighbay-P4 Bracket-D330



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)
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 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

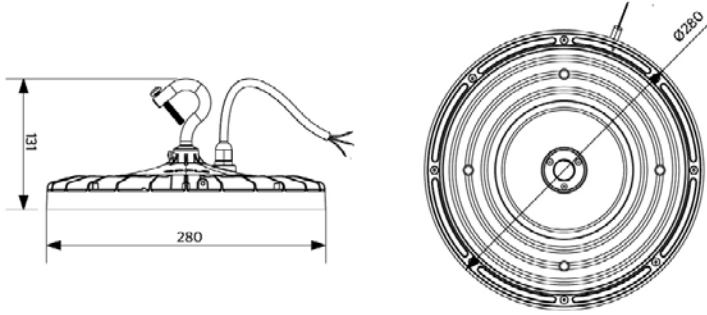
Ambient Conditions

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

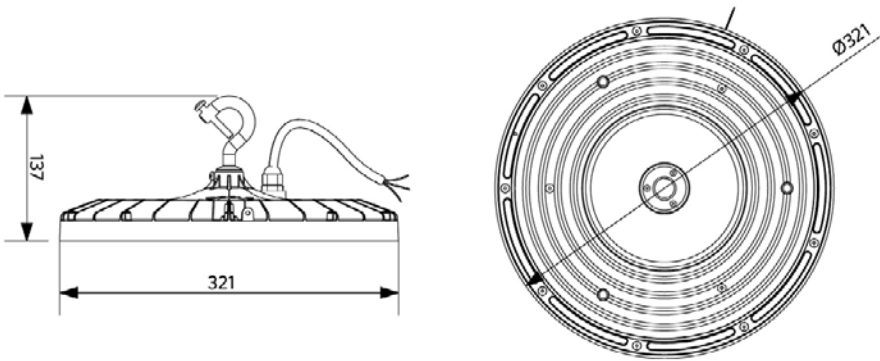


Dimensional Drawing (mm)

LEDHighbay-E
95W & 140W



LEDHighbay-E
185W





LED Waterproof Performer G3

- Waterproof luminaire with high efficacy up to 135 lm/W
- Available as Smart Lighting solution (BLE) and DALI2
- Specific "sealed for life" design
- Quick installation thanks to its screwless endcap
- Supplied with vandal-proof stainless steel ceiling and suspension clips
- Special PLUS version with 2 additional wires (2x2.5mm²)



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	
DALI	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)
EM1	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	
EM3	543022021700	LEDWaterproof-P3 L710-12.5W-4000-EM3	TL 1x18W	12.5	1600	130	4000	4x2.5	1.37
	543022021900	LEDWaterproof-P3 L710-24W-4000-EM3	TL 2x18W	24	3100	130	4000	4x2.5	1.37
	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	

DALI 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)	RGO
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	Yes, see Appendix 3

Mechanical Properties

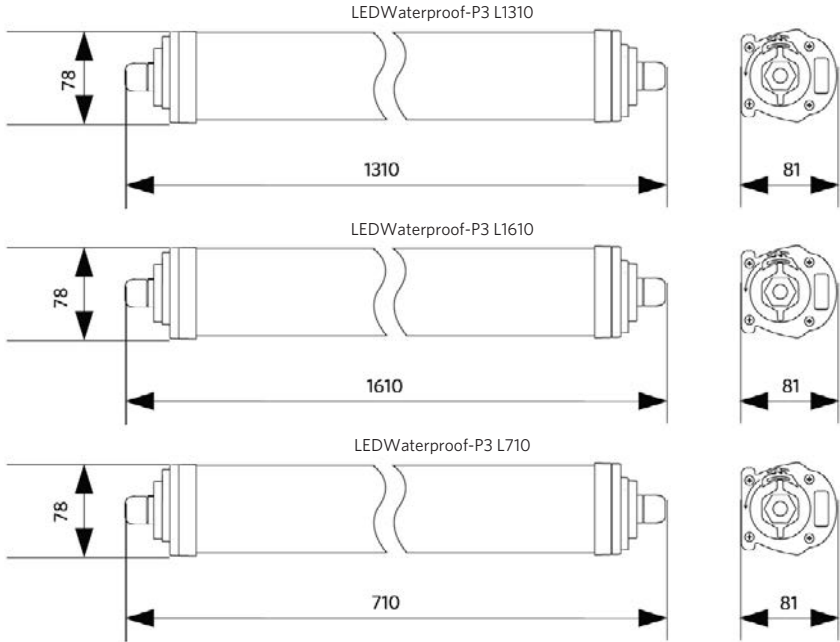
Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate
Ceiling clips	Stainless steel

Ambient Conditions

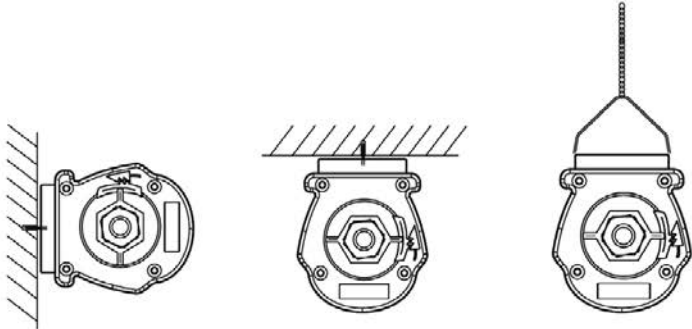
Operating temperature	-25 ~ 45 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C



Dimensional Drawing (mm)



Installation Possibilities





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY



LED Waterproof 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)
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

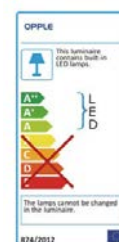
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate

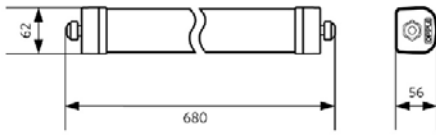
Ambient Conditions

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

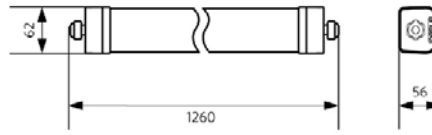


Dimensional Drawing (mm)

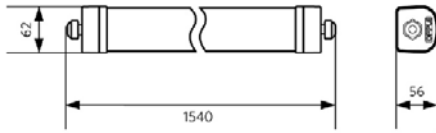
LEDWaterproof-E2 L680



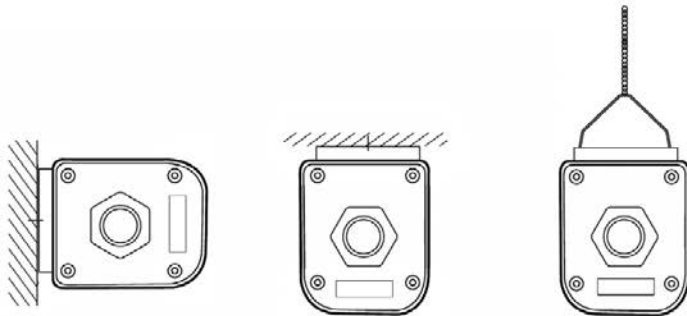
LEDWaterproof-E2 L1260



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)
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

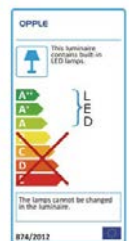
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
UV resistant	Yes
Optical material	Polycarbonate

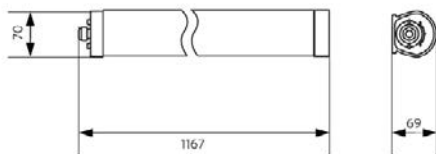
Ambient Conditions

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



Dimensional Drawing (mm)

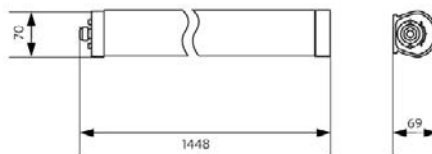
LEDWaterproof-B L1150-36W-4000
LEDWaterproof-B L1150-36W-6500



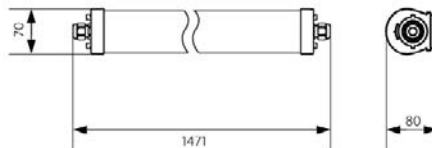
LEDWaterproof-B L1150-36W-4000-WT
LEDWaterproof-B L1150-36W-6500-WT



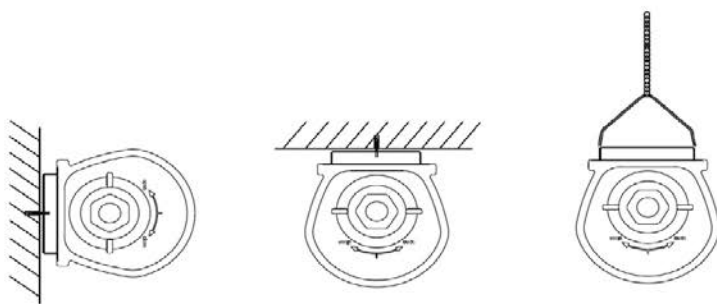
LEDWaterproof-B L1450-50W-4000
LEDWaterproof-B L1450-50W-6500



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 customizable DALI sensors



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Beam angle	Weight (kg/pc)
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
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
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

Emergency lighting available on request. DALI versions are compatible with central emergency lighting according to EN 50172. For more technical information, please go to the appendix.

Accessories

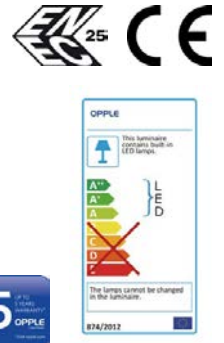


Technical Specifications	
Lifetime (L70)	70,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / DALI
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Impact strength	IK02
Protection class	I
With control gear	Yes
Power factor	≥ 0.9

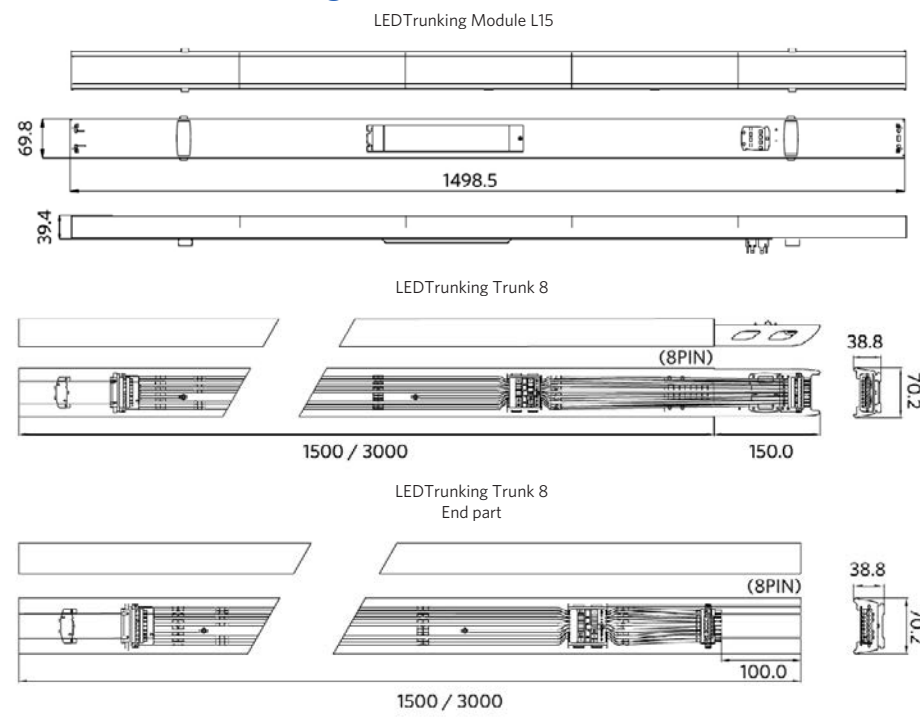
Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	

Mechanical Properties	
Material housing	Steel

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



Dimensional Drawing (mm)





Smart	10
Indoor	24
Outdoor	104
Lamps & Tools	128
Technical Data	148
Glossary	168





LED Roadlight

- 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
- Robust die-cast aluminium body
- IP66 and coastline proof



Pole Adapter is ordered separately.

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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
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.

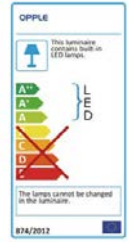
Accessories



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	On-Off / DALI
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
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	Yes, see Appendix 3

Mechanical Properties

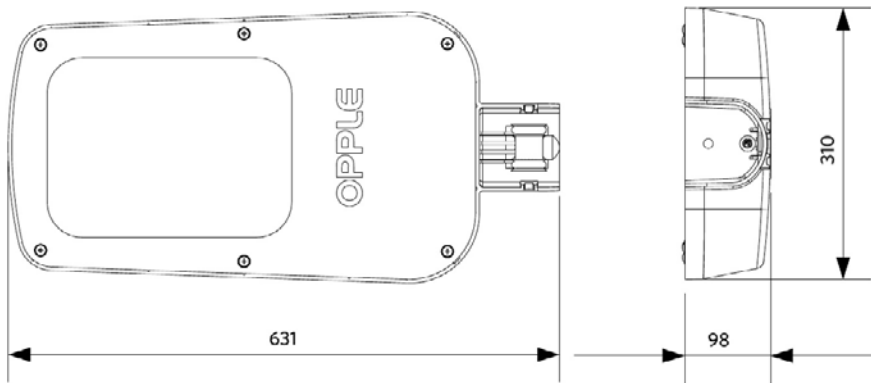
Material housing	Aluminium
Optical material	Polycarbonate
Compatible pole Ø	48-76 mm
Effective wind area	1478 cm ²

Ambient Conditions

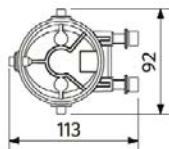
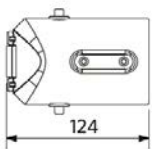
Operating temperature	-30 ~ 50 °C
Application temperature	25 °C
Storage environment	-30 ~ 65 °C

Dimensional Drawing (mm)

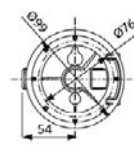
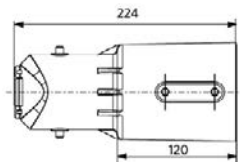
LEDRoadlight



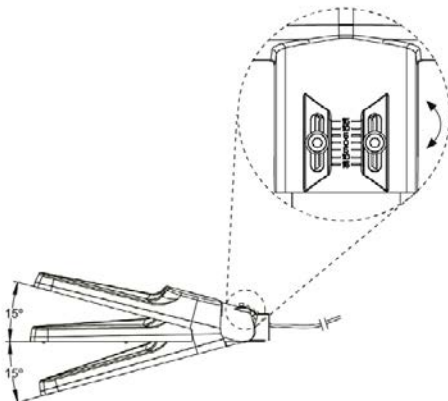
Pole Adapter-Roadlight-60mm



Pole Adapter-Roadlight-76mm



LEDRoadlight Tilting





LED Streetlight

- Up to 60% energy saving compared to HID streetlight
- High efficacy up to 125 lm/W
- Low glare & precise optical design
- Accessories available for many pole types
- 6m extension cable available
- IP65 and suitable for use on the coast



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
140065922	LEDStreetlight 20W-4000K-SE	HID 50W	20	2500	125	4000	1.25
140066385	LEDStreetlight 40W-4000K-SE	HID 70W	40	4600	115	4000	1.25
543014002700	LEDStreetlight 65W-4000K-SE	HID 100W	65	7475	115	4000	1.25

For more technical information, please go to the appendix.

Accessories



543098001100
LEDStreet-SE-Wall-Bracket



543098000800
LEDStreet-SE-Adapter-60



543098001000
LEDStreet-SE-Pole-Top-Adapter-60



543098000900
LEDStreet-SE-Pole-Top-Adapter-76



599000004600
LEDStreet-SE-ExtensionCable



543098021900
LEDFixture-IP68-Connector-Kit-3

Technical Specifications

Lifetime (L70)	70,000 h
Lifetime (L80)	50,000 h
On-/Off-cycles	100,000
Colour consistency (SDCM)	6
Dimmability	On-Off
Beam angle	150 ° x 70 °
Finishing	Grey RAL 870-3
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK08
Protection class	I
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9
Surge protection	4 kV

Electrical Supply

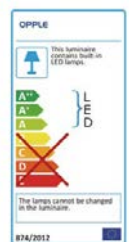
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Compatible pole Ø	36-42 mm
Effective wind area	385 cm ²

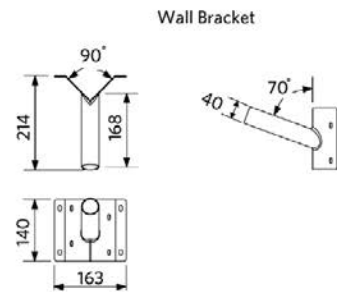
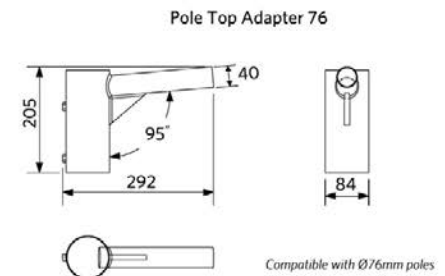
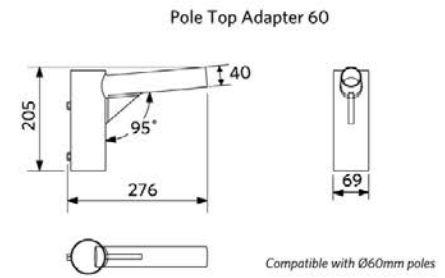
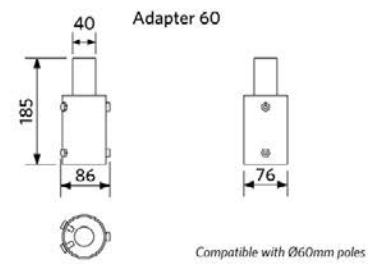
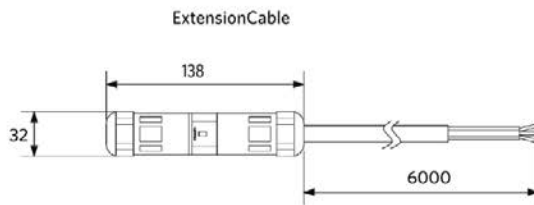
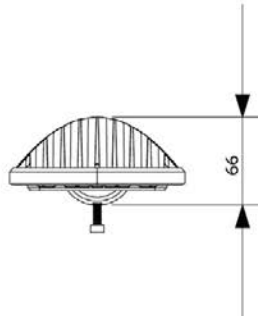
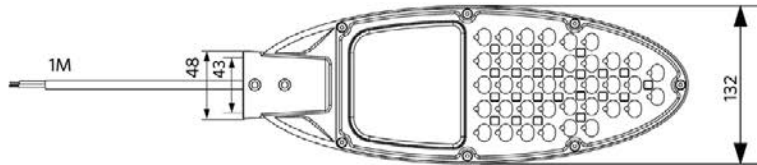
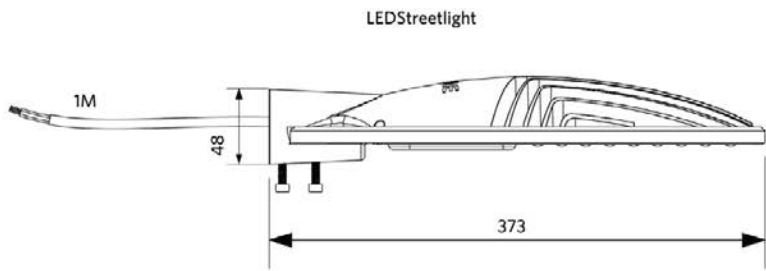
Ambient Conditions

Operating temperature	-40 ~ 50 °C
Application temperature	25 °C
Storage environment	-30 ~ 65 °C



Dimensional Drawing (mm)

LEDStreetlight





LED Post Top

- Professional post-top solution with optimal light performance
- Integrates well into existing landscape
- Special optics to reduce glare to pedestrians
- Die casted aluminium body for optimal heat dissipation
- Available in two pole sizes for more application flexibility



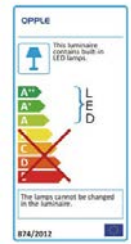
Specifications

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
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	Yes, see Appendix 3

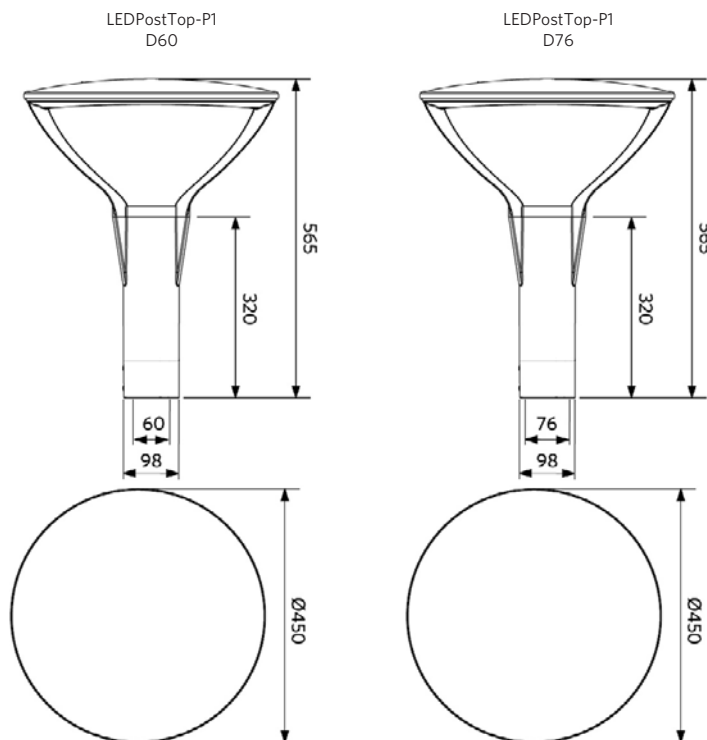
Mechanical Properties

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)





LED Bollard

- Professional urban landscape luminaire with discreet design
- Modern design that integrates well into existing landscape
- 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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
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
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

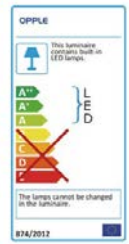
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate

Ambient Conditions

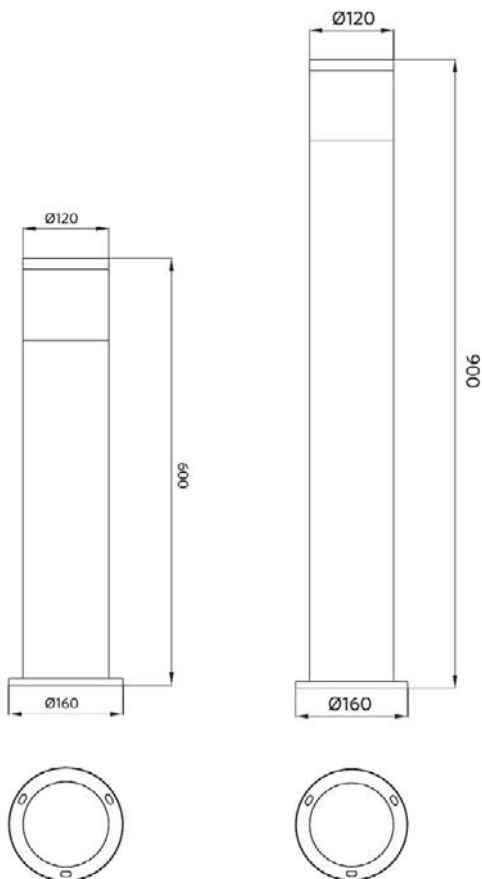
Operating temperature	-20 ~ 45 °C
Application temperature	25 °C
Storage environment	-40 ~ 60 °C



Dimensional Drawing (mm)

LEDBollard-P1- L600

LEDBollard-P1- L900





**NEW
VERSIONS**



LED Flood HO

- NEW: DALI version available for further energy savings
- NEW: Available in 4000K
- 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)
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-MountingKit-2Mod



543098005800
LED Flood HO-P-MountingKit-4Mod



543098005900
LED Flood HO-P-SafetyCable



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
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

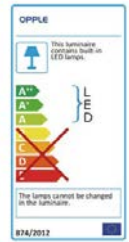
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

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

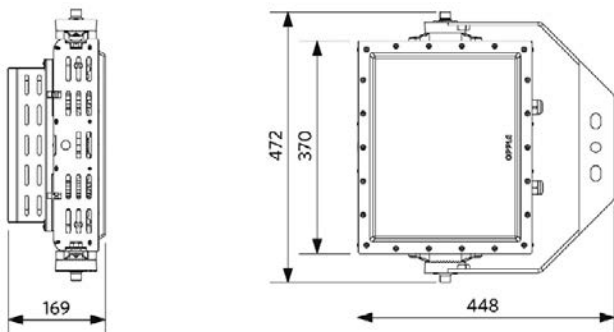
Ambient Conditions

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

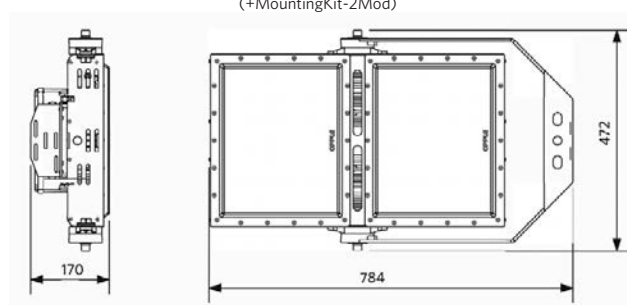


Dimensional Drawing (mm)

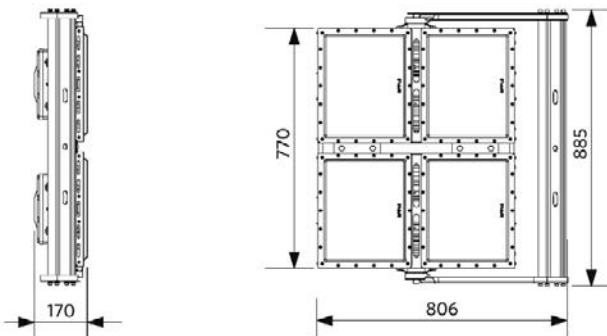
LEDFloodHO-P-310W



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



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





LED Floodlight Performer

- 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
- 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)
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
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

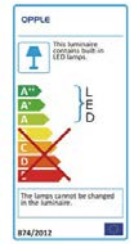
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

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

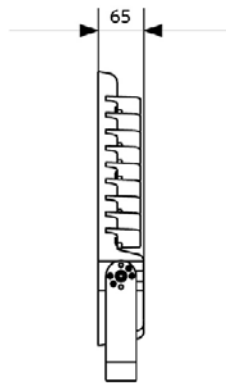
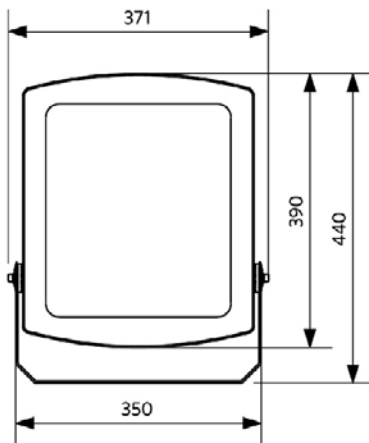
Ambient Conditions

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



Dimensional Drawing (mm)

LEDFlood-P Re440





LED Floodlight EcoMax G2 Medium Power

- Slim aluminium body with integrated heatsink and clipless cover
- Robust and water- and dustproof
- High efficacy up to 100 lm/W
- High energy saving compared to halogen and high pressure sodium lamps
- Range from 3,000 to 7,000 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)
543017012100	LED Flood-E2 Re199-30W-3000-BL	HID 50W	30	3600	110	3000	110 °	0.85
543017011800	LED Flood-E2 Re199-30W-4000-BL	HID 50W	30	3300	120	4000	110 °	0.85
543017012000	LED Flood-E2 Re253-50W-3000-BL	HID 70W	50	6000	110	3000	110 °	1.40
543017011700	LED Flood-E2 Re253-50W-4000-BL	HID 70W	50	5500	120	4000	110 °	1.40
543017011600	LED Flood-E2 Re283-70W-4000-BL	HID 150W	70	7700	120	4000	110 °	2.10

For more technical information, please go to the appendix.

Accessories



543098021900
LED Fixture-IP68-Connector-Kit-3



140065060
LED Flood-E-Motion-Daylight-Sensor



140060793
LED Flood-E-Re250-280-Bracket-BL



140060792
LED Flood-E-Re250-280-Spike-BL



599000004600
LED Street-SE-Extension Cable

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
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

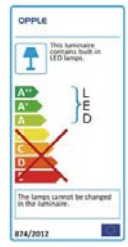
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Aluminium
Optical material	Polycarbonate
Cover material	Tempered glass

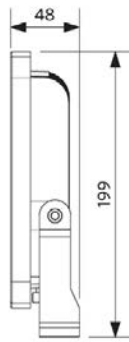
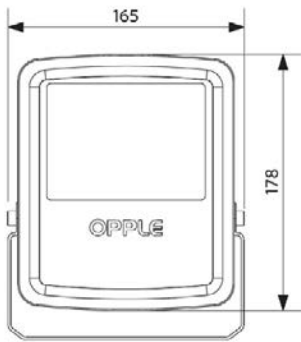
Ambient Conditions

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

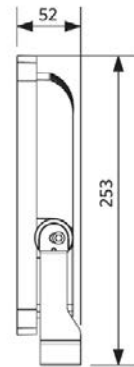
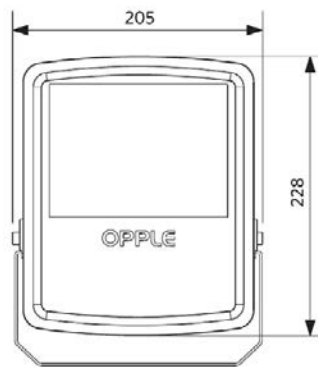


Dimensional Drawing (mm)

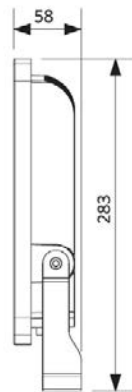
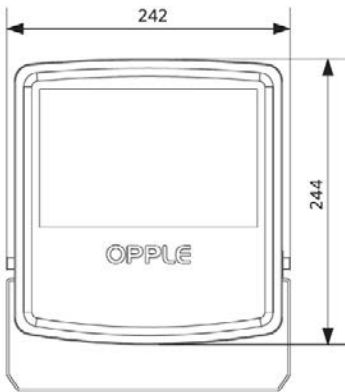
LEDflood-E2 Re199



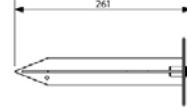
LEDflood-E2 Re253



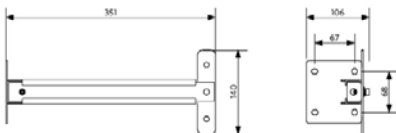
LEDflood-E2 Re283



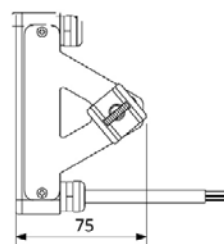
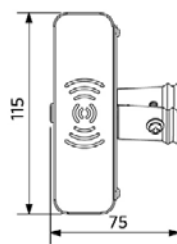
LEDflood-E-Re250-280-Spike

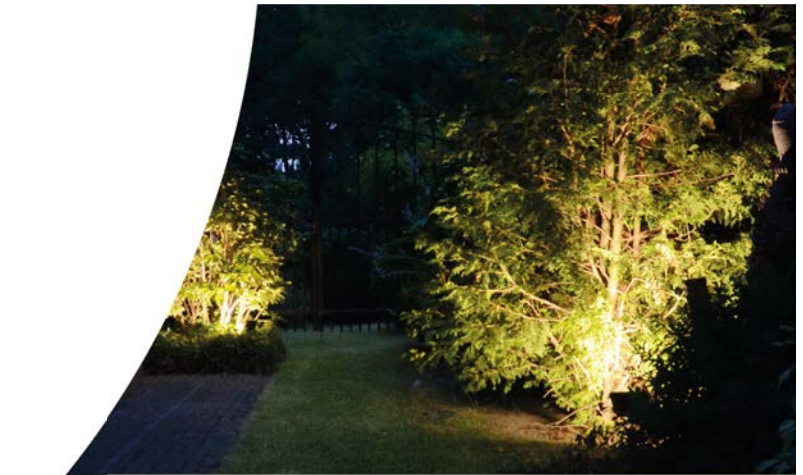


LEDflood-E-Re250-280-Bracket



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)
543017020400	LED Flood-E2 Re113-10W-3000-BL	Halogen 50W	10	1050	105	3000	100 °	0.20
543006000600	LED Flood-E2 Re113-10W-4000-BL	Halogen 50W	10	1050	105	4000	100 °	0.20
543006000700	LED Flood-E2 Re127-19W-3000-BL	Halogen 100W	19	1900	100	3000	100 °	0.25
543006000800	LED Flood-E2 Re127-19W-4000-BL	Halogen 100W	19	1900	100	4000	100 °	0.25
543017020500	LED Flood-E2 Re113-10W-3000-WH	Halogen 50W	10	1050	105	3000	100 °	0.20
543006000900	LED Flood-E2 Re113-10W-4000-WH	Halogen 50W	10	1050	105	4000	100 °	0.20
543006001000	LED Flood-E2 Re127-19W-3000-WH	Halogen 100W	19	1900	100	3000	100 °	0.25
543006001100	LED Flood-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
LED Fixture-IP68-Connector-Kit-3



140065060
LED Flood-E-Motion-Daylight-Sensor



140060790
LED Flood-E-Re150-Bracket-BL

140060791
LED Flood-E-Re150-Bracket-WH



140060789
LED Flood-E-Re150-Spike-BL



599000004600
LED Street-SE-Extension Cable

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
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

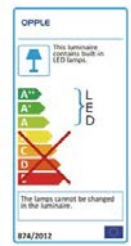
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

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

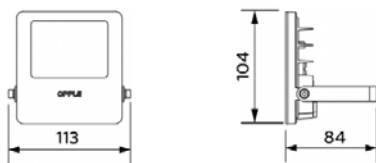
Ambient Conditions

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

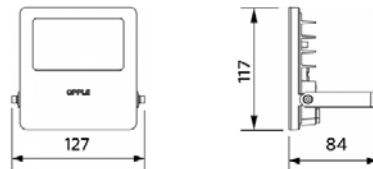


Dimensional Drawing (mm)

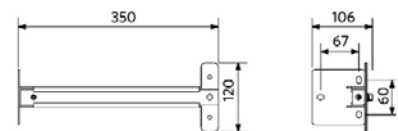
LEDflood-E2 Re113



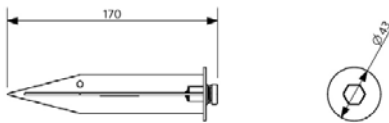
LEDflood-E2 Re127



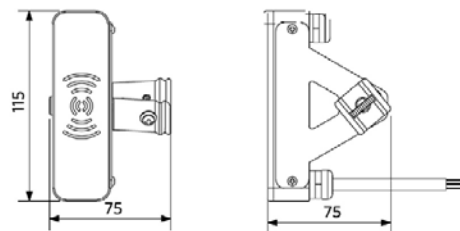
LEDflood-E-Re150-Bracket



LEDflood-E-Re150-Spike



LEDflood-E Sensor





LED Floodlight Basic

- 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	Weight (kg/pc)
543017000200	LED Flood-B Re125-10W-4000	Halogen 50W	10	800	80	4000	100 °	0.30
543017000300	LED Flood-B Re170-20W-4000	Halogen 100W	20	1700	85	4000	100 °	0.50
543017000400	LED Flood-B Re191-30W-4000	HID 50W	30	2500	85	4000	100 °	0.65
543017009900	LED Flood-B Re217-50W-4000	HID 70W	50	4250	85	4000	100 °	1.25
543017010000	LED Flood-B Re266-70W-4000	HID 150W	70	5950	85	4000	100 °	1.53

For more technical information, please go to the appendix.

Accessories



543098021900
LED Fixture-IP68-Connector-Kit-3



140065060
LED Flood-E-Motion-Daylight-Sensor



140060790
LED Flood-E-Re150-Bracket-BL

140060793
LED Flood-E-Re250-280-Bracket-BL



140060789
LED Flood-E-Re150-Spike-BL

140060792
LED Flood-E-Re250-280-Spike-BL



599000004600
LED Street-SE-Extension Cable

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)
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

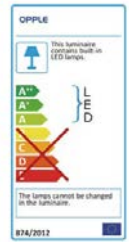
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

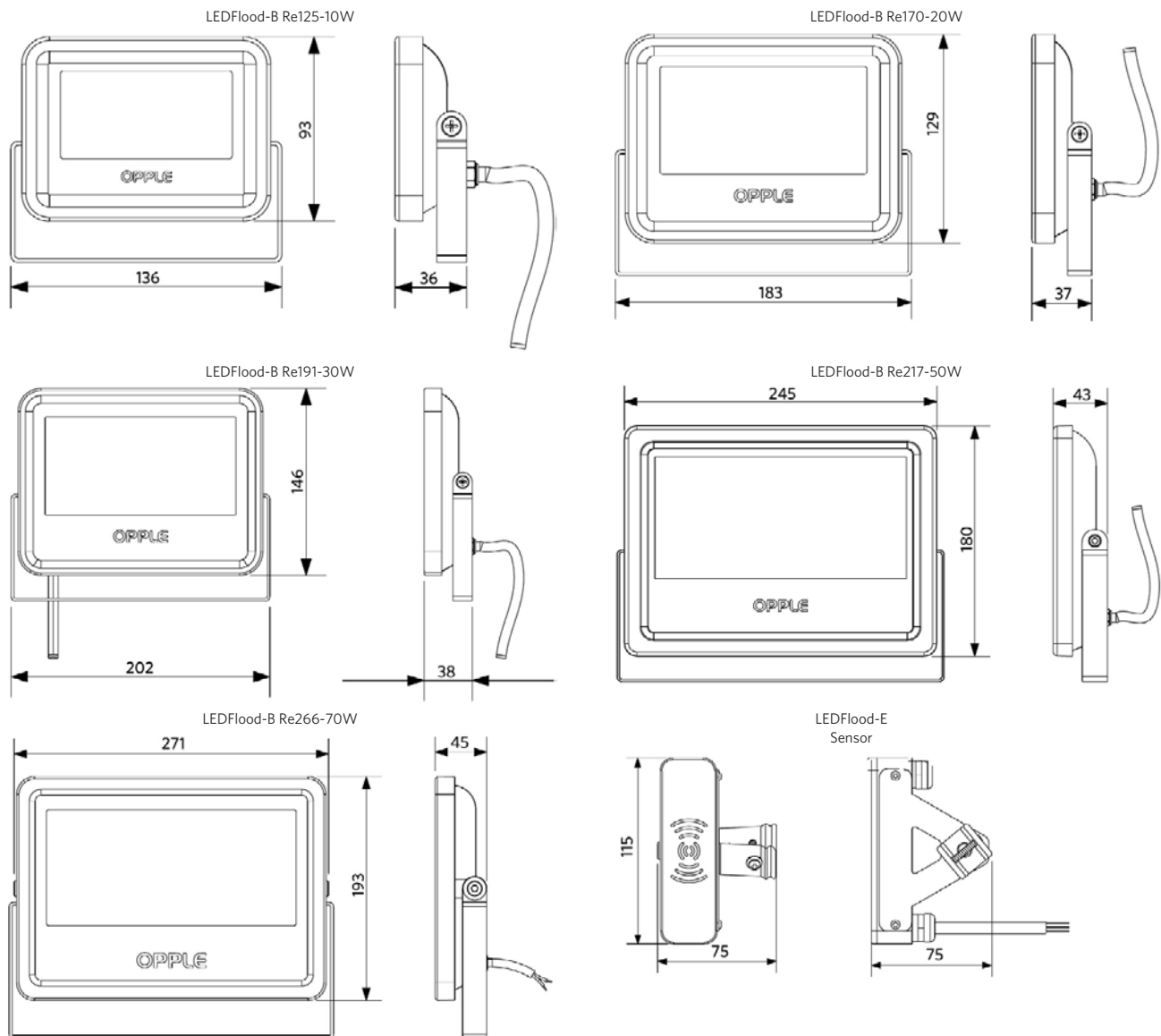
Material housing	PPS (10W, 20W, 30W) / Aluminum (50W, 70W)
Optical material	Polycarbonate
Cover material	PC + Glass

Ambient Conditions

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



Dimensional Drawing (mm)





LED Porchlight EcoMax

- 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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	With sensor	Weight (kg/pc)
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
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
140064481	LEDPorch-E Re120-8W-3000K-WH	CFL 11W	8	720	90	3000	No	0.83
140064482	LEDPorch-E Re120-8W-4000K-WH	CFL 11W	8	800	100	4000	No	0.83
140064483	LEDPorch-E Re120-9W-3000K-MD-WH	CFL 11W	9	765	85	3000	Yes	0.87
140064484	LEDPorch-E Re120-9W-4000K-MD-WH	CFL 11W	9	810	90	4000	Yes	0.87

Emergency lighting available on request.

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)	6
Dimmability	On-Off / MD
Finishing	White
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP65
Impact strength	IK10
Protection class	II
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

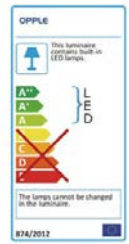
Frequency	50/60 Hz
Nominal voltage	220-240 V
	AC
DC input voltage	No

Mechanical Properties

Material housing	Polycarbonate (PC)
Optical material	Polycarbonate

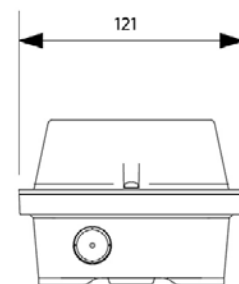
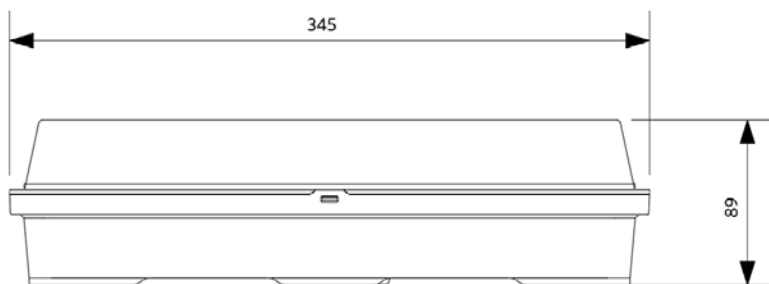
Ambient Conditions

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



Dimensional Drawing (mm)

LEDPorch-E Re120





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



Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	With sensor	Weight (kg/pc)
543011000600	LEDWall-Mounted-P Rd300-15W	CFL 2x18W	15	1750	115	3000/4000	No	1.30
543011000500	LEDWall-Mounted-P Rd300-16W-MD	CFL 2x18W	16	1750	110	3000/4000	Yes	1.40
543011000400	LEDWall-Mounted-P Rd300-21W	CFL 2x26W	21	2550	120	3000/4000	No	1.32
543011000300	LEDWall-Mounted-P Rd300-22W-MD	CFL 2x26W	22	2550	115	3000/4000	Yes	1.42
543011003600	LEDWall-Mounted-P Rd300-15W-EM1	CFL 2x18W	15	1750	115	3000/4000	No	1.48
543011003700	LEDWall-Mounted-P Rd300-16W-MD-EM1	CFL 2x18W	16	1750	110	3000/4000	Yes	1.58
543011003800	LEDWall-Mounted-P Rd300-21W-EM1	CFL 2x26W	21	2550	120	3000/4000	No	1.50
543011003900	LEDWall-Mounted-P Rd300-22W-MD-EM1	CFL 2x26W	22	2550	115	3000/4000	Yes	1.60
543011003200	LEDWall-Mounted-P Rd300-15W-EM3	CFL 2x18W	15	1750	115	3000/4000	No	1.78
543011003300	LEDWall-Mounted-P Rd300-16W-MD-EM3	CFL 2x18W	16	1750	110	3000/4000	Yes	1.88
543011003400	LEDWall-Mounted-P Rd300-21W-EM3	CFL 2x26W	21	2550	120	3000/4000	No	1.80
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
With control gear	Yes
Glow wire test	850 °C
Driver failure rate (at 5,000 hrs)	0.5 %
Power factor	≥ 0.9

Electrical Supply

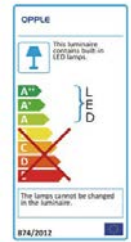
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	Yes, see Appendix 3

Mechanical Properties

Material housing	Polycarbonate (PC)
Optical material	Polycarbonate

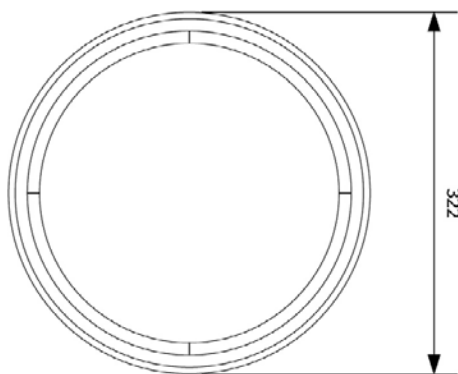
Ambient Conditions

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



Dimensional Drawing (mm)

LEDWall-Mounted-P Rd300





Smart	10
Indoor	24
Outdoor	104
Lamps & Tools	128
Technical Data	148
Glossary	168





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)
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
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

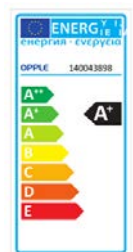
Lifetime (L70)	15,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	360 °
Finishing	Clear / Frosted
Colour rendering index CRI	≥ 80

Electrical Supply

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

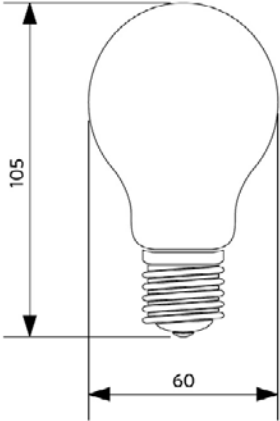
Ambient Conditions

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

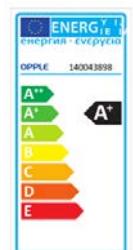
Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
500011000500	LED-E-B35-FILA-E14-2.8W-2700K-CL	GLS 25W	2.8	250	89	2700	A+	0.01
500011000300	LED-E-B35-FILA-E14-4W-2700K-CL	GLS 40W	4	470	118	2700	A+	0.01
500011000400	LED-E-B35-FILA-E14-2.8W-DIM-2700K-FR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

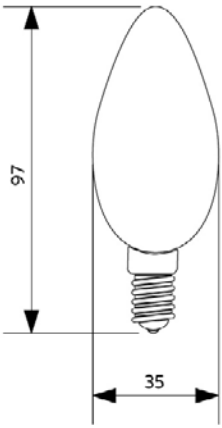
Electrical Supply	
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

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)
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
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

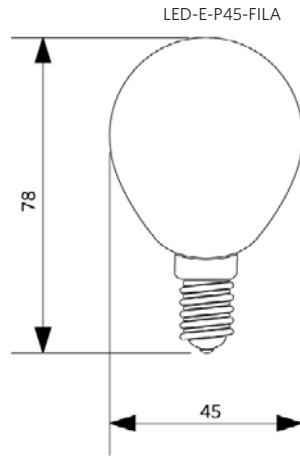
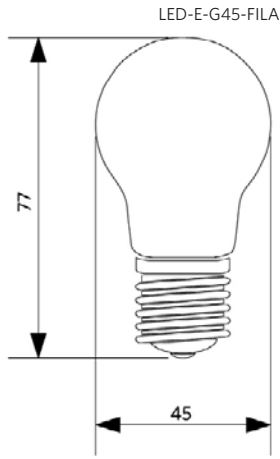
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

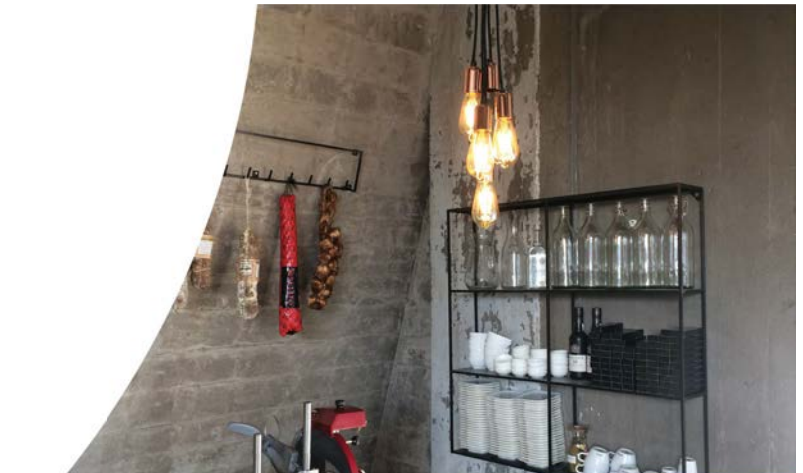
Ambient Conditions

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)
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

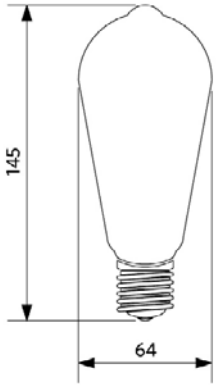
Ambient Conditions

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



See appendix for dimmer compatibility list.

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
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

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

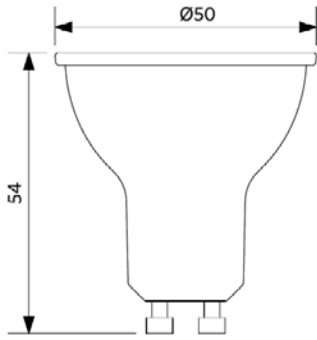
Ambient Conditions

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

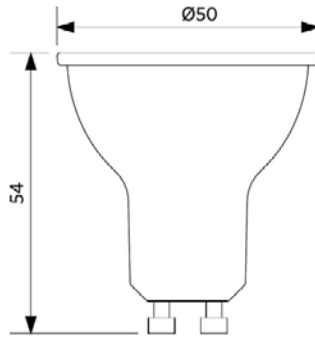


Dimensional Drawing (mm)

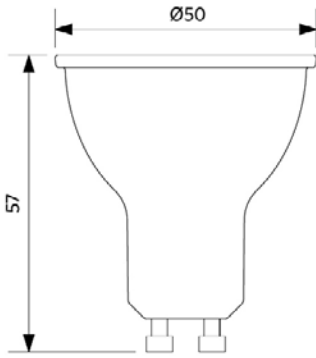
LED-E-GU10-3,5W



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 120 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)
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

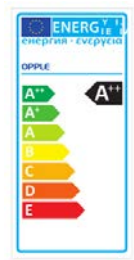
Lifetime (L70)	50,000 h
On-/Off-cycles	100,000
Dimmability	On-Off
Beam angle	220 °
Finishing	White
Colour rendering index CRI	≥ 80
Fitting	G13

Electrical Supply

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

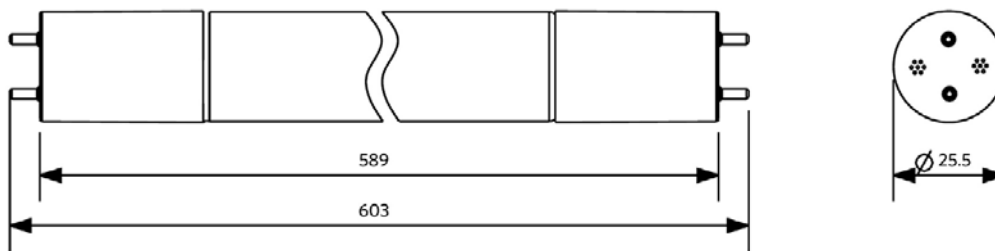
Ambient Conditions

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

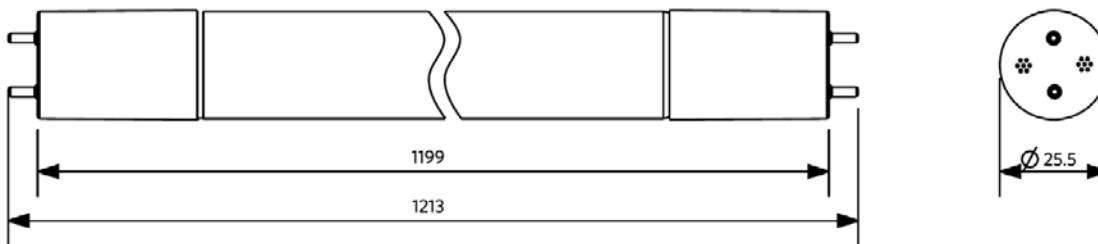


Dimensional Drawing (mm)

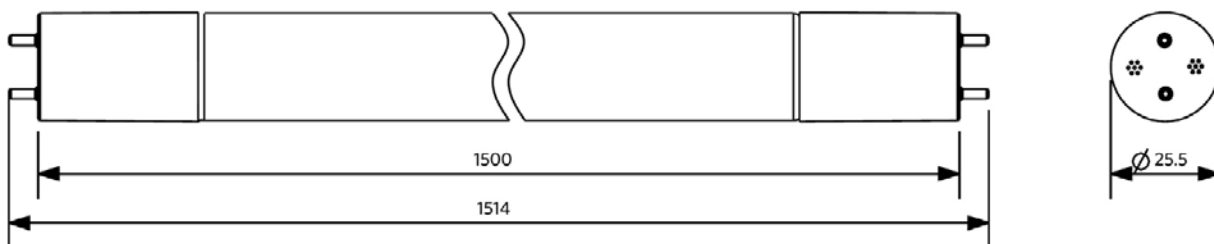
LED P T8 glass 600



LED P T8 glass 1200



LED P T8 glass 1500





LED High Power Bulb

- High lumen output allows easy replacement up to 400W HID
- To be used in existing luminaire with E40 sockets, of which the ballast needs to be removed
- Connects directly to 220-240V
- High lumen packages with high efficacy: up to 13,000 lm and 113 lm/W
- Enables both surface and hook mounting
- Up to 55% energy savings compared to traditional HID lamps
- 2.5 times longer lifetime compared to traditional HID lamps

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Weight (kg/pc)
140062576	LED P HPB E40 90W 4000K 140D CT	HID 250W	90	8000	89	4000	1.38
140062577	LED P HPB E40 115W 4000K 140D CT	HID 400W	115	13000	113	4000	1.86

Accessories



140062578
HPB Accessory Hook Mounted E40



140062579
HPB Accessory Surface Mounted E40

Technical Specifications

Lifetime (L70)	25,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	50,000
Colour consistency (SDCM)	6
Dimmability	On-Off
Beam angle	140 °
Finishing	Grey
Colour rendering index CRI	≥ 80
Protection class	II
With control gear	Yes
Glow wire test	650 °C
Driver failure rate (at 5,000 hrs)	1 %
Power factor	≥ 0.9

Electrical Supply

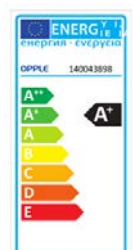
Frequency	50/60 Hz
Nominal voltage	220-240 V AC
DC input voltage	No

Mechanical Properties

Material housing	Aluminum
Optical material	Polycarbonate

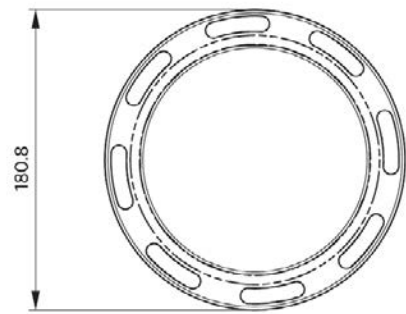
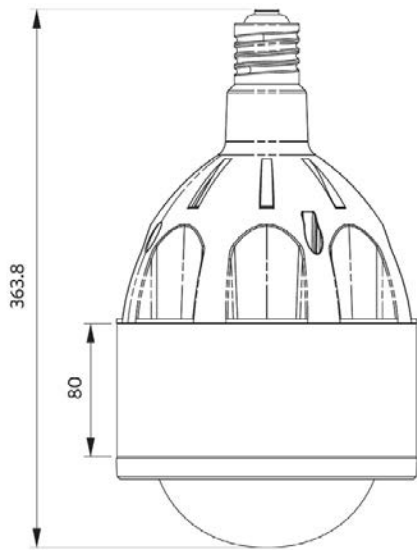
Ambient Conditions

Operating temperature	-20 ~ 35 °C
Storage environment	-25 ~ 50 °C

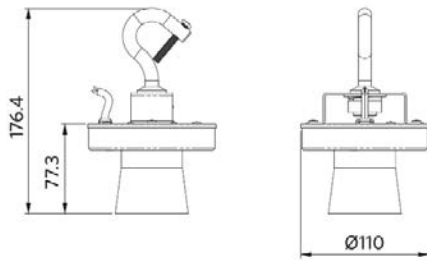


Dimensional Drawing (mm)

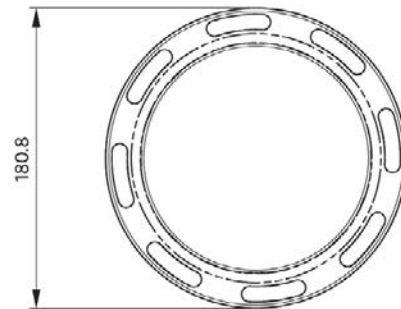
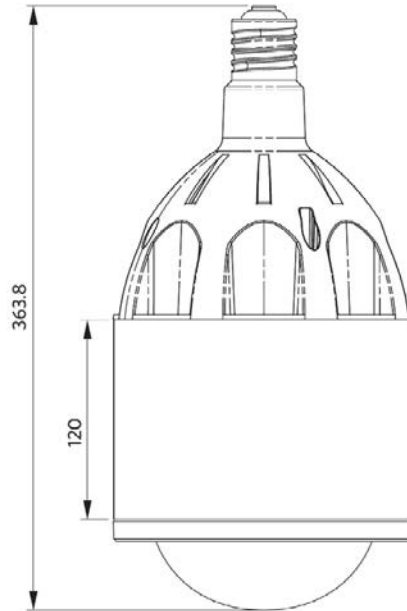
LED P HPB E40 90W



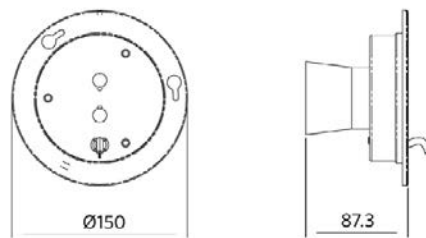
HPB Accessory Hook Mounted

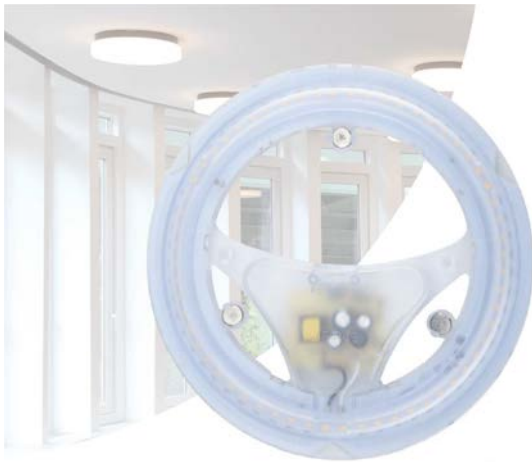


LED P HPB E40 115W



HPB Accessory Surface Mounted





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



See appendix for dimmer compatibility list.

Specifications

Item Code	Item Description	Equivalent to (W)	Power (W)	Lumen	Efficacy (lm/W)	CCT (K)	Energy Level	Weight (kg/pc)
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
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

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

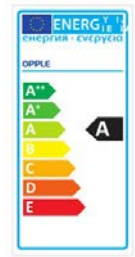
Lifetime (L70)	30,000 h
Lifetime (L80)	20,000 h
On-/Off-cycles	100,000
Dimmability	On-Off / Triac
Beam angle	150 °
Colour rendering index CRI	≥ 80
Degree of protection (IP)	IP20
Protection class	II
With control gear	Yes

Electrical Supply

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

Ambient Conditions

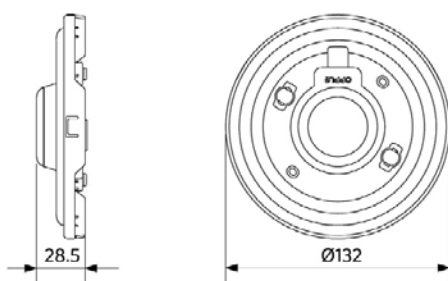
Operating temperature	-20 ~ 40 °C
Application temperature	25 °C
Storage environment	-25 ~ 50 °C



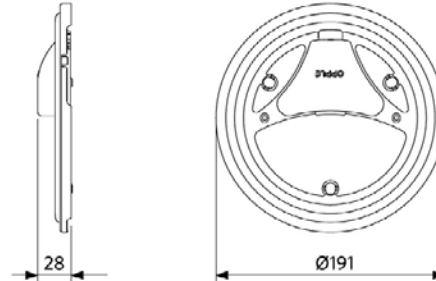
Dimensional Drawing (mm)

LED E C module 12W

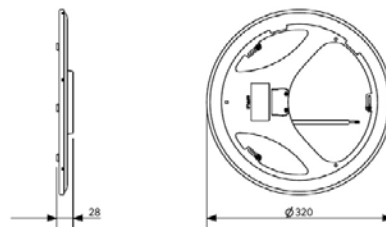
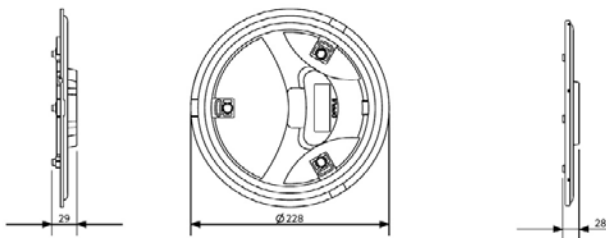
LED E C module 16W



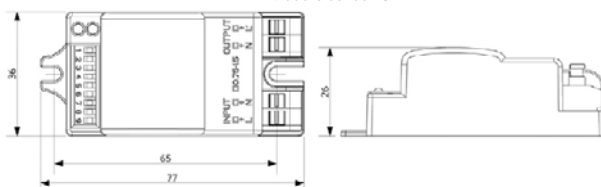
LED E C module 22W

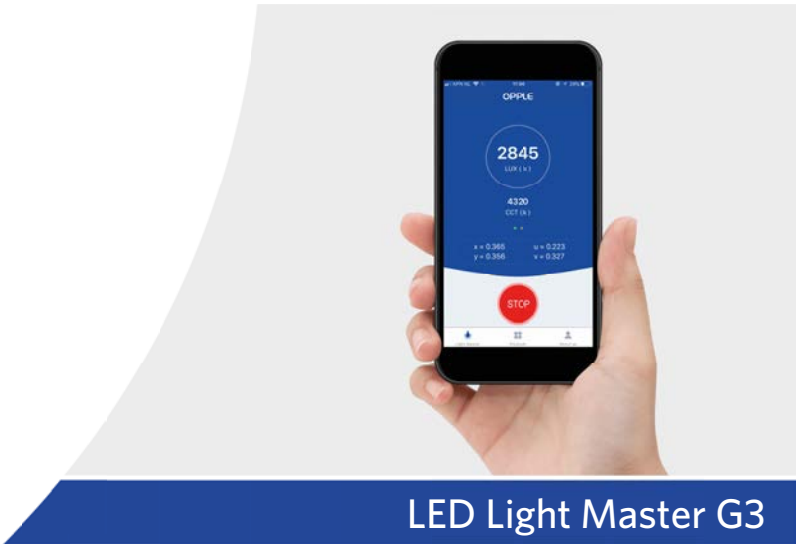


LED E C module 36W



LED Module sensor CT





LED Light Master G3

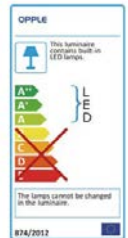
- Easy connection via bluetooth
- Simple solution for measurement of light level (lux), colour temperature (Kelvin) and colour rendering (CRI)
- Compatible with iOS and Android
- Rechargeable with micro USB (cable not included)



Specifications

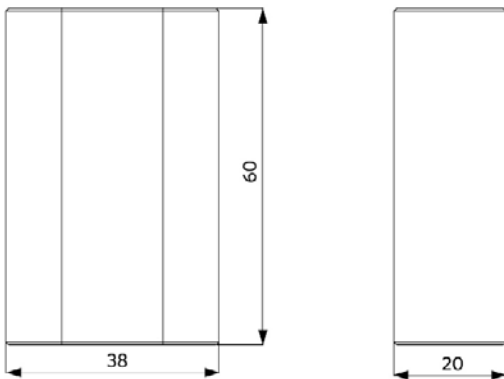
Item Code	Item Description
599000032700	Light-master-III

Technical Specifications	
Rechargeable	Yes - micro USB
Lux range	0-10000 lx
Color temperature range	2000-25000 K
Accuracy	~ 5% deviation
Operating temperature	-10 ~ 40 °C



Dimensional Drawing (mm)

Light-master-III





SMART

INDOOR

OUTDOOR

LAMPS & TOOLS

TECHNICAL DATA

GLOSSARY







Smart	10
Indoor	24
Outdoor	104
Lamps & Tools	128
Technical Data	148
Glossary	168



Dimming compatibility Level

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		Spot 3C Compact
			7W	8W	7W	10W	13W	16W	7W	9W	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		1-11	
Berker	2819	60-400W		1-10							1-9
Berker	2830 10	60-400W	1-10			1-8	1-6	1-5	1-11		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	1-14		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	1-12	1-9	1-11
BUSCH-JAEGER	2247U	20 - 500W		1-11	1-13	1-10	1-7	1-6	1-14	1-6	1-11
BUSCH-JAEGER	6524U	LED 2 - 100 W	1-13	2-5	1-13	1-10	1-7	1-6	1-14		
BUSCH-JAEGER	2250U	600W	1-16	2-11	1-16	1-12	1-9	1-7	1-17	2-13	1-14
BUSCH-JAEGER	6591 U-101-500	420W	1-13	1-12	1-11	1-11	1-7	1-6	1-12	1-10	
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	1-14	1-11	1-9
Busch	6526U	10-200W/LED2-100W					1-7				
Eltako	EUD61NPN-UC	400W		1-9							
EFAPEL	21215	3-50W	1-6	1-6	1-6	1-5	1-3	1-3	1-7	1-5	
EFAPEL	21214	3-35W	1-4	1-4	1-4	1-3	1-2	1-2	1-5	1-4	1-2
EFAPEL	21216	3-85W	1-11	1-10	1-11	1-8	1-6	1-5	1-12	1-9	
EPV	PAB 315	20-315W	1-8	1-7	1-8	1-6	1-4	1-4	1-9	1-7	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					1-16	1-12	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							1-6	1-6	
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	1-14	1-11	1-8
GIRA	0302 00/101	60-600W	1-16		1-16	1-12	1-9	1-7	1-17	1-13	
GIRA	0307 00/102	20-525W	1-14		1-14	1-10		1-6	1-15	1-11	1-11
JUNG	225 NV DE	20-500W/LED3-100W	1-13	1-3	1-13	1-10	1-7	1-6	1-14	1-11	
JUNG	266 G DE	60-600W	1-16	1-3	1-16	1-12	1-9	1-7	1-7	1-13	
Klemko	891040	315W		1-5					1-6	1-6	
Legrand	617 030	40-600w	1-16			1-12		1-7		1-13	
merten	MEG5134-0000	4-400W	1-10	1-10	1-11	1-8	1-6	1-5	1-11	1-11	1-13
NIKO	310-0190X	5-325W	1-8	1-13	1-9	1-6	1-4	1-4	1-9	1-7	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	1-6	1-5	
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	1-3	1-11	1-7
NVC	EP8D11A BLB5	400W	1-10	1-9	1-11	1-8	1-6	1-5	1-11		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	B5 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	1-14	1-11	1-11
SIEMENS	5UH8222-3NC01	40-500W	1-13	1-11	1-13	1-10	1-7	1-6	1-14		1-13

Please note: For example, a Berker 286610 dimmer can control a minimum of 1 and a maximum of 10 Opplé GU10 3.2W lamps

Appendix





Version October 2020

Data subject to change

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
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	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
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
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
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
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
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
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
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
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
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
EFAPEL	21212		250W/85W (LED)	1-18	1-12	1-20	1-18	1-20	1-20	1-18	1-12	1-18	1-12	1-18	1-12
EFAPEL	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
EFAPEL	21215		150W/50W (LED)	2-11	4-7	1-20	2-11	1-17	1-17	1-17	1-17	2-11	4-7	2-11	4-7
EFAPEL	21216		5-150W (LED)	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
EPV	PAB 315		315W	1-20	2-12	2-20	1-20	1-20	1-20	1-20	1-20	2-12	1-20	2-12	1-20
Feller	40200 LED FMI 61		400W	1-20	1-16	1-20	1-20	1-20	1-20	1-20	1-20	1-16	1-20	1-16	1-20
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
Feller	40300 RC FMI 61		20-300W	1-20	1-16	1-20	1-20	1-20	1-20	1-20	1-20	1-16	1-20	1-16	1-20
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
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
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
Gira	030200	R	600W	1-20	1-20	1-12	1-20	1-20	1-20	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
Jung	266 GDE	R	60-600W	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20	1-20
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
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
Legrand	665714		400W/75W (LED)	1-20	1-10	1-16	1-20	2-20	1-20	2-20	1-20	1-10	1-20	1-10	1-20
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
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
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
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
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	1-4
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	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
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
Panasonic	BS EN 60669-2-1		150W-500W	1-4	5-12	1-20	1-4	3-8	1-8	3-8	1-8	1-4	5-12	1-4	5-12
Panasonic	WEG578153		80-500W	1-20	4-20	1-20	1-20	3-9	1-9	3-9	1-9	1-20	4-20	1-20	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
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
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

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 FMI61		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

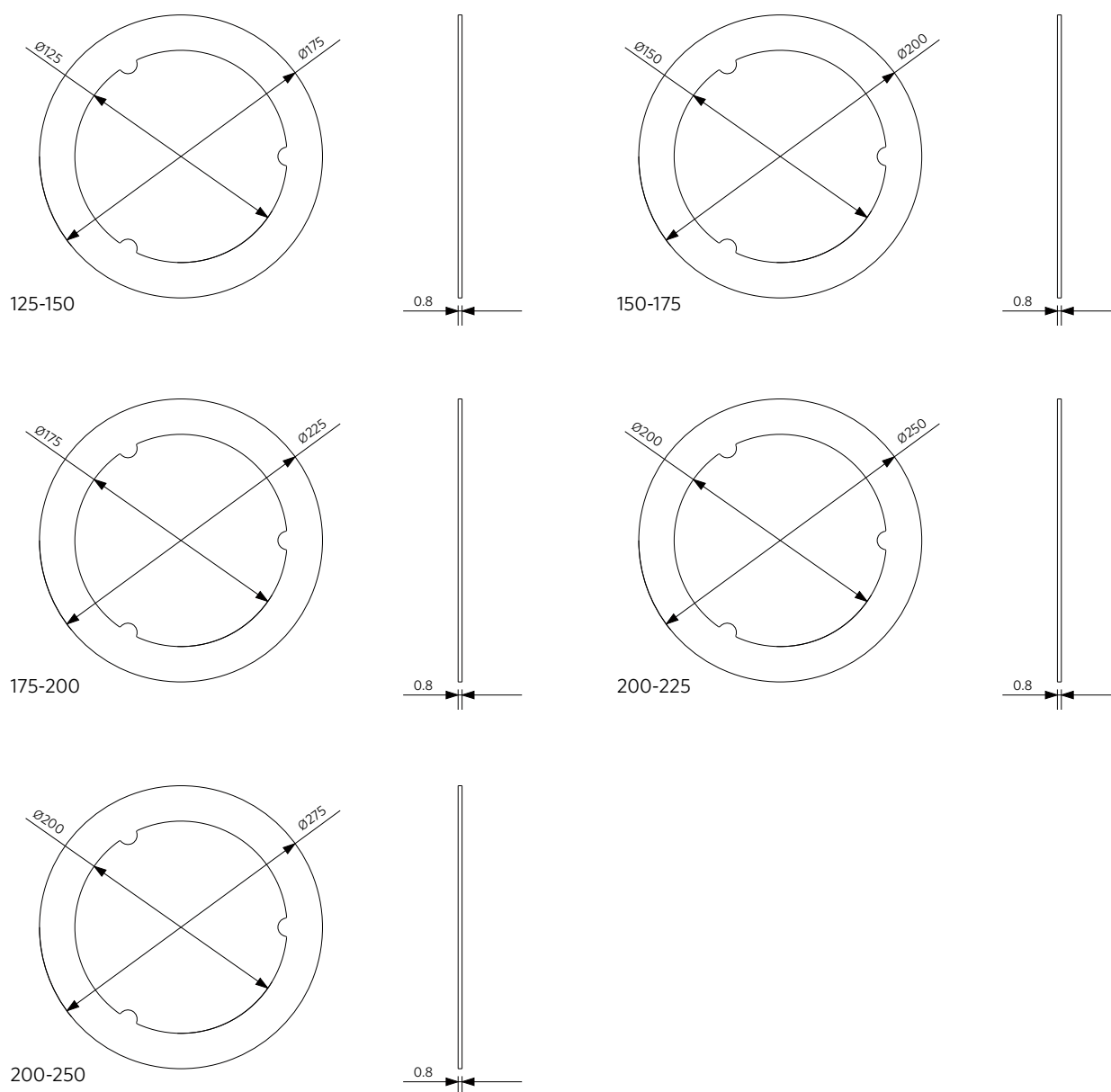
Cut-Out Overview																
		Cut-Out (mm)														
		Φ60	Φ68	Φ72	Φ76	Φ80	Φ95	Φ120	Φ125	Φ150	Φ172	Φ175	Φ200	Φ210		
LED Downlight	Performer	LED DL-RC-P HG/MW R150-11.5W (incl DALI/BLE)														
		LED DL-RC-P HG/MW R200-15W (incl DALI/BLE)														
		LED DL-RC-P HG/MW R200-23W (incl DALI/BLE)														
		LED DL-RC-P HG/MW R200-33W (incl DALI/BLE)														
	EcoMax	HZdim	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	LED Ava 7W													
			LED Ava 9W													

Note: For Downlight Performer, HZ^{DIM} en Slim 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



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	11W / 21W / 36W	190-210	37	62	35	270
LED Panel	Grille	13W DALI / 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	n/a	21	35	21	162
LED Panel	Sydney	35W	n/a	40	57	23	24
LED Panel	Sydney	35W DALI/10V/BLE	n/a	21	35	21	162
LED Panel	Slim Performer	30W/30W DALI	190 - 210	16	25	25	500
LED Panel	Slim Performer	34W/34W DALI	190 - 210	16	25	25	500
LED Panel	Slim Performer	30W/34W BLE	n/a	16	25	25	500
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	HZdim	7W	200 - 300	181	307	1.4	320
LED Downlight	HZdim	10W	200 - 300	126	214	1.6	708
LED Downlight	HZdim	13W	200 - 300	97	164	1.5	464
LED Downlight	HZdim	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	2,4	27
LED Spot	Performer 3C Compact	25W	250-370	85	85	7,8	80
LED Spot	Performer 3C Compact	35W	250-370	55	55	10	78
LED Spot	Performer 3C/RA	30W	200 - 300	13	22	45	500
LED Spot	Performer 3C/RA	45W	190 - 210	9	15	15	30
LED Spot	Performer 3C/RA	30W DALI / 45W DALI	180 - 260	8	14	39	1000
LED Spot	Swing	20W	n/a	101	101	22	40
LED Spot	Swing	35W	n/a	57	57	24	24
LED Spot	Swing	35W DALI/10V/BLE	n/a	41	58	21	162
LED Spot	3C Ecomax	30W	200 - 300	72	95	10	230
LED Spot	HQ	7W Dim	200 - 300	181	307	3	180
LED Spot	HQ	8W Dim	190 - 210	240	408	1	500
LED Spot	Ecomax	4.5W	190 - 210	281	477	7	2

Category	Series	Types	DC Input Voltage	Max. units per B16	Max. units per C16	Max. inrush current	Inrush time (µs)
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 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	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
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	20W / 40W	200 - 300	29	49	17	250
LED Streetlight	Streetlight	65W	190 - 210	11	18	14.1	400
LED Flood	Performer	90W / 125W / 160W	190 - 210	11	18	35	800
LED Flood	Performer	220W	180V - 280	3	5	66.5	540
LED Flood	EcoMax G2	30W	310	93	94	8,1	38.2
LED Flood	EcoMax G2	50W	310	10	13	69.6	5,3
LED Flood	EcoMax G2	70W	310	16	21	44.4	10.1
LED Flood	EcoMax G2	10W	200-300	50	83	2.5	90
LED Flood	EcoMax G2	19W	200-300	110	130	6,2	190
LED Flood	Basic	10W	190-270	88	112	8.5	0,4
LED Flood	Basic	20W	190-270	80	103	9.3	0.5
LED Flood	Basic	30W	190-270	63	80	11.9	0.5

Appendix

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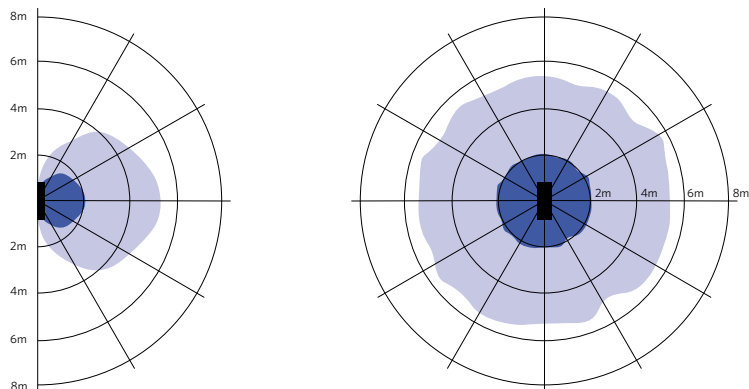
Data subject to change

Category	Series	Types	DC Input Voltage	Max. units per B16	Max. units per C16	Max. inrush current	Inrush time (µs)
LED Flood	Basic	50W	176-264	41	52	18.3	1.4
LED Flood	Basic	70W	176-264	38	40	19.5	1.7
Porch	EcoMax	8W/9W	200-300	200	350	18	20
Porch	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 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
Flood HO	Flood HO	310W	190-210	2	4	27	1500
Flood HO	Flood HO	620W	190-210	2	3	28.5	2820



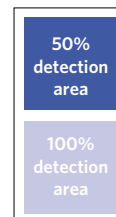
Motion Sensors - detection range

LED Porchlight MD



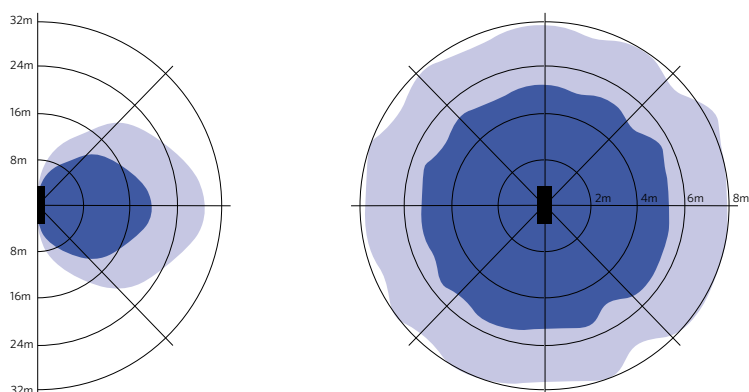
Installation - Wall Mounted
Suggested installation height 1-2m

Installation - Ceiling Mounted
Suggested installation height 2.5-4m



Item codes:
140064479
140064480
140064483
140064484

LED Wall Mounted Performer MD

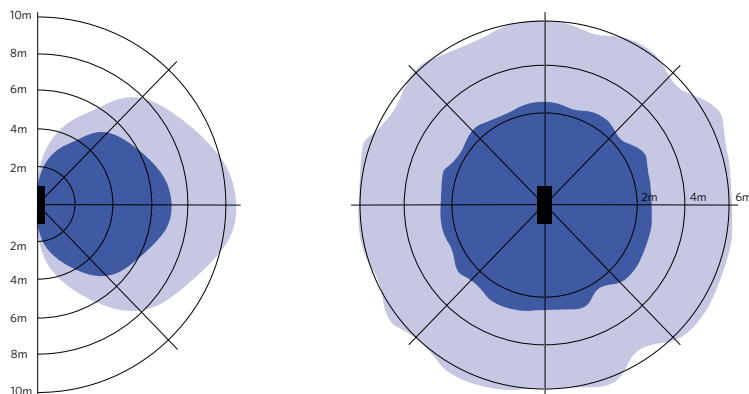


Installation - Wall Mounted
Suggested installation height 1-4m

Installation - Ceiling Mounted
Suggested installation height 2.5-10m

Item codes:
543011000500
543011000300

LED Floodlight Sensor



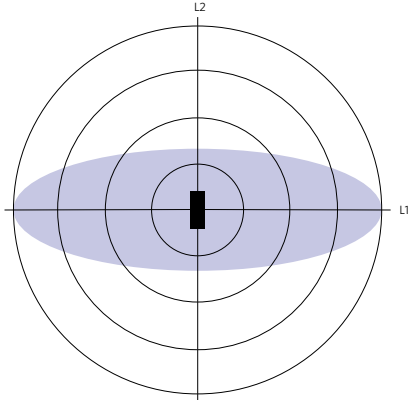
Installation - Wall Mounted
Suggested installation height 2.5-6m

Installation - Ceiling Mounted
Suggested installation height 2.5-6m

Item code:
140065060

Appendix

LED Trunking Sensor L/H

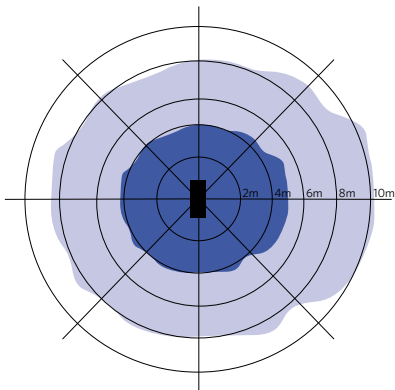


Item codes:
542098004600
542098004700

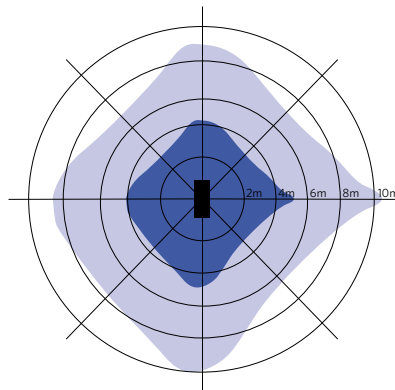
Installation height (m)	Sensor Probe L (m)		Sensor Probe H (m)	
	50% Sensitivity (L1xL2)	100% Sensitivity (L1xL2)	50% Sensitivity (L1xL2)	100% Sensitivity (L1xL2)
3	2.1x1.5	5.0x2.2	NA	NA
4	1.8x1.3	4.5x2.2	2.9x1.6	6.7x2.9
5	1.0x1.2	4.0x2.1	5.3x2.0	8.4x3.6
6	NA	NA	5.5x2.1	10.0x4.4
7	NA	NA	4.6x1.8	9.0x3.9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

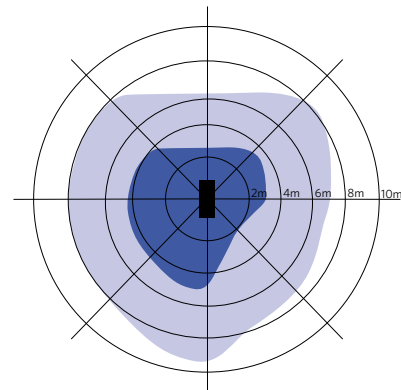
Highbay MD



Installation - Low Ceiling
Suggested installation height 9m



Installation - Medium Ceiling
Suggested installation height 12m

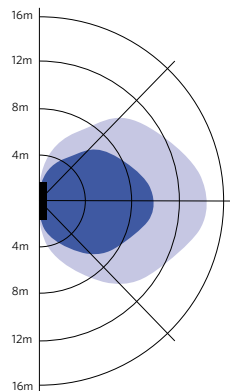


Installation - High Ceiling
Suggested installation height 15m

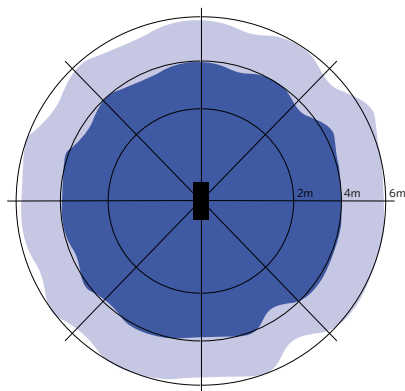


Motion Sensors - detection range

LED Module Sensor CT

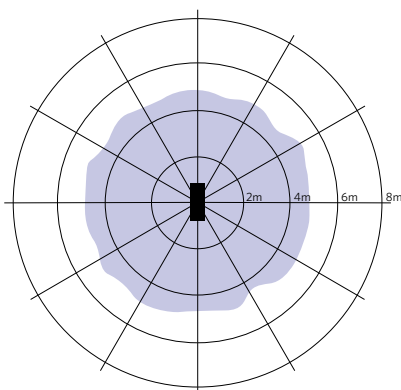


Installation - Wall Mounted
Suggested installation height 1-1.8m



Installation - Ceiling Mounted
Suggested installation height 2.5-6m

Smart Sensor



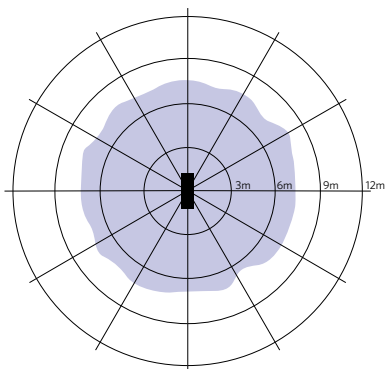
Installation - Low Ceiling
Suggested installation height 2-3m

Item code:
140063563

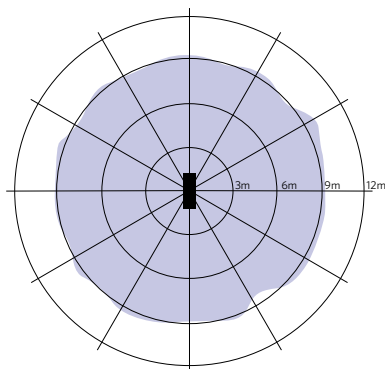
Recommended Height (m)	Sensitivity Setting	Detection Radius (m)
3	Low	7
8	Middle	9
9	High	10
12	High	7

Smart Sensor MW

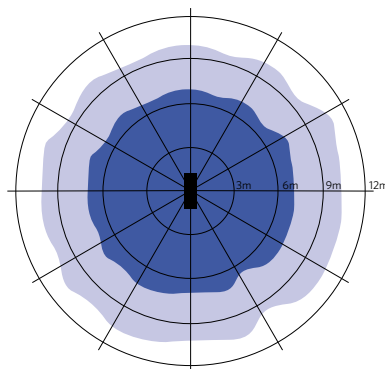
Item code:
560000008400



Installation - Low Ceiling
Suggested installation height 3m



Installation - Medium Ceiling
Suggested installation height 8m



Installation - High Ceiling
Suggested installation height 9-12m

Appendix

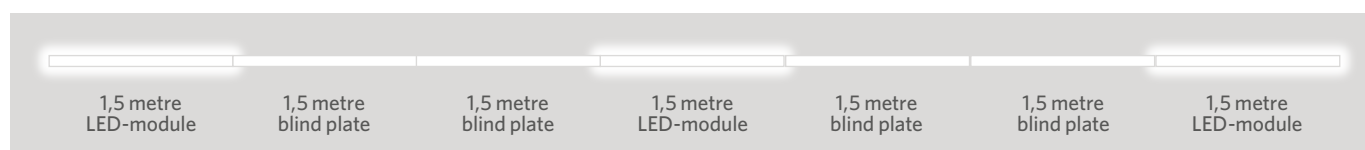
Trunking - module allocation

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

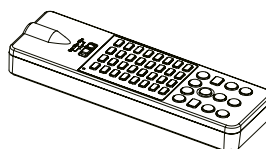
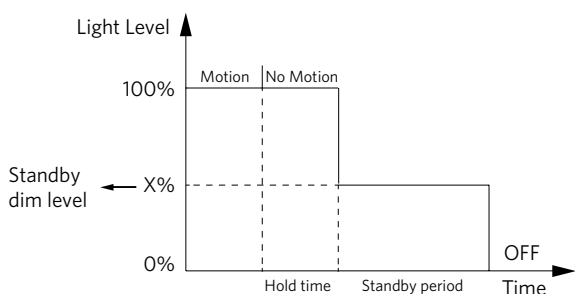
Motion Sensor

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

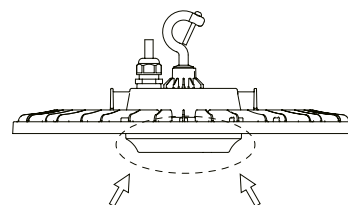
Factory settings

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).

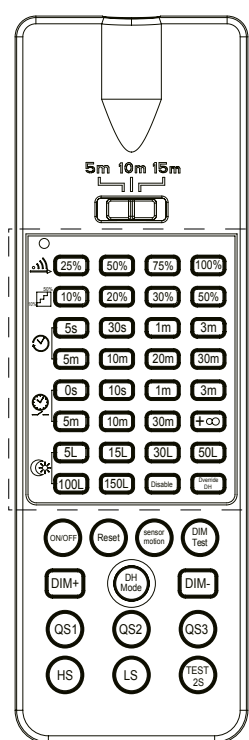


543098024500
LED HB4-Remote Controller
(Sold as accessory)



Sensor Position

Key Remote Controller functions



Daylight Sensor

To save extra energy by dimming down the luminaire in case sufficient daylight is available



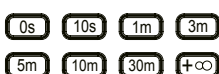
Hold Time

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



Stand-by Period

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



Stand-by dim Level

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



Detection Area

Size of the detection area of the sensor.



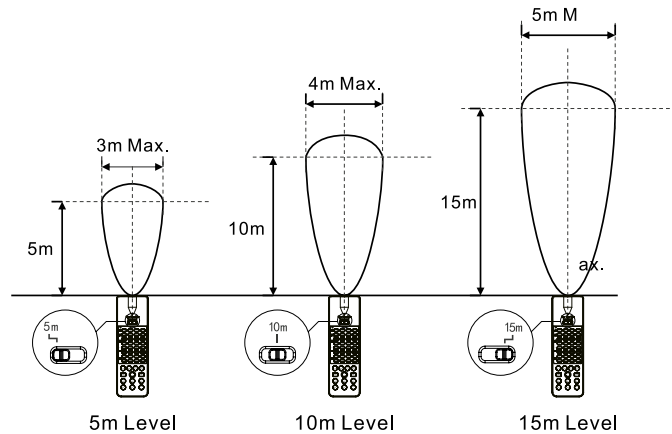
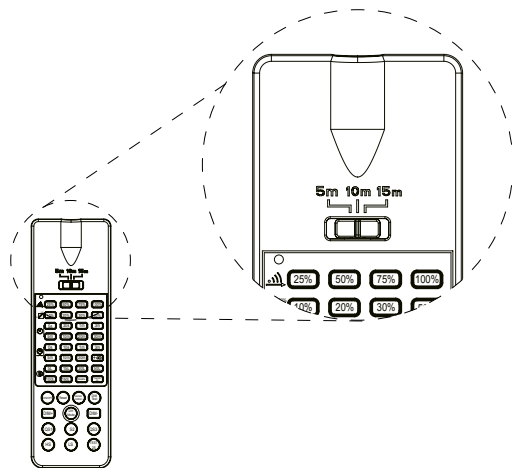
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Data subject to change
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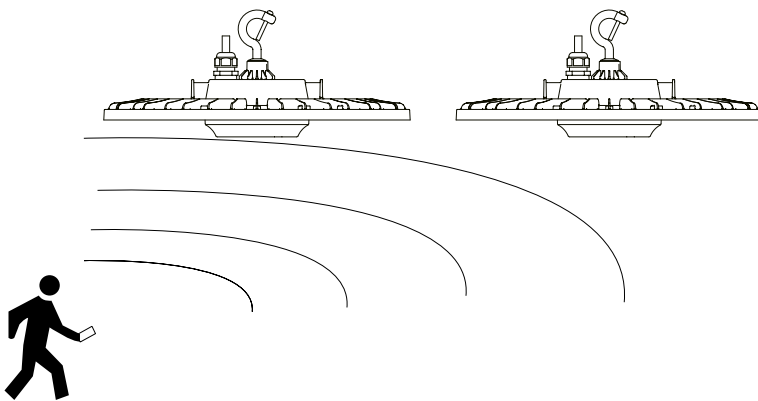
Operation

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

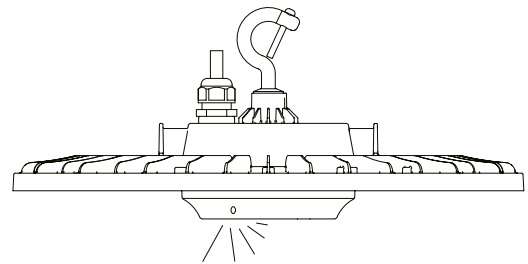
1. Set the remote sensitivity according to the mounting height of the Highbay.



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.



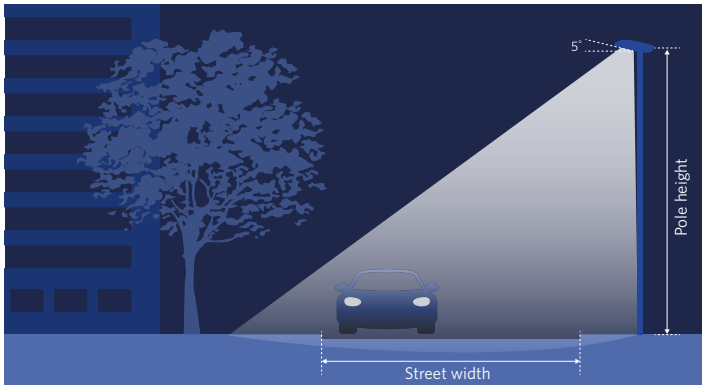
3. The luminaire indicator light (green) will flash one time after it has received the new setting.



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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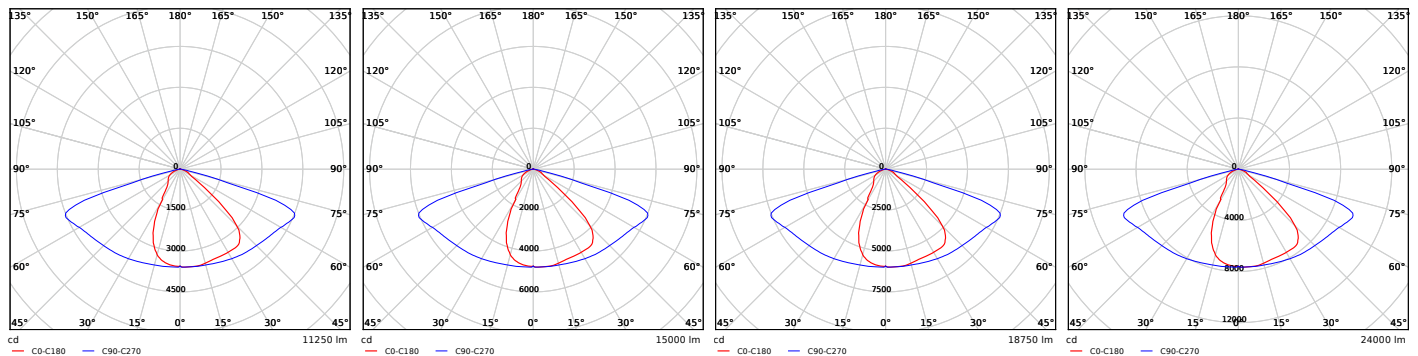
M-Class Roads

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

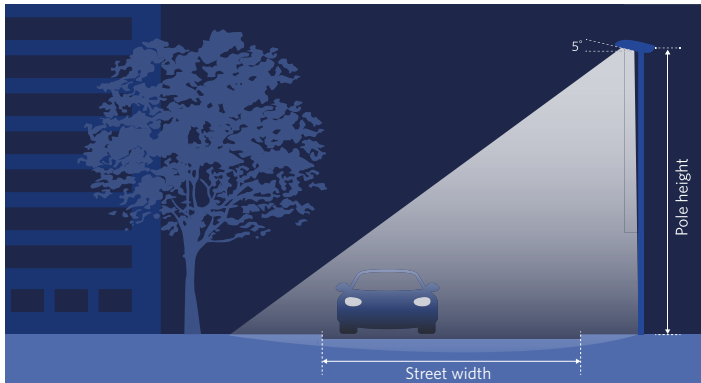
LEDRoadlight 200W-4000K-DALI

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Streetlight - 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]
140065922-LEDStreetlight 20W-4000K-SE	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
140066385-LEDStreetlight 40W-4000K-SE	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
543014002700-LEDStreetlight 65W-4000K-SE	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

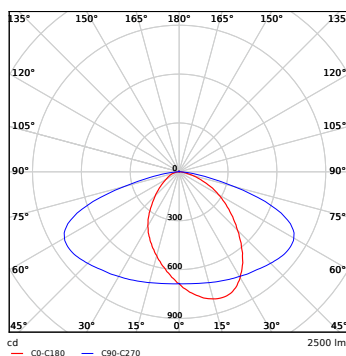
M-class = main road

P-Class Roads

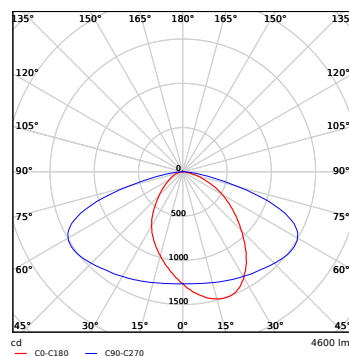
Luminaire	Illuminance Class	Street width [m]	Maximum pole distance[m]	Pole height [m]	Boom angle [°]	Light overhang [m]
140065922-LEDStreetlight 20W-4000K-SE	P2	3	24	4,5	5	0
		4	23	4	5	0
		5	23	4	5	0,5
	P4	6	20	4	5	0,3
		3	35	6,5	5	0,5
		4	35	6,5	5	0,3
140066385-LEDStreetlight 40W-4000K-SE	P2	5	34	6	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
543014002700-LEDStreetlight 65W-4000K-SE	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

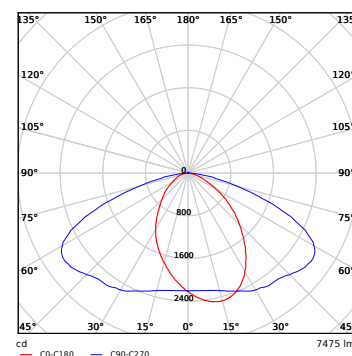
Polar Diagrams



LEDStreetlight 20W-4000K-SE



LEDStreetlight 40W-4000K-SE

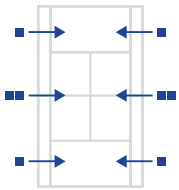


LEDStreetlight 65W-4000K-SE

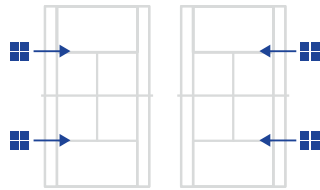
LED Flood HO - Configuration examples

TENNIS

Class II

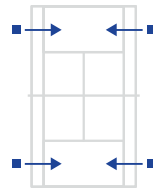


COMPETITION
SINGLE FIELD
4 X 1X 310W
2 X 1X 620W
POLE HEIGHT: 8M

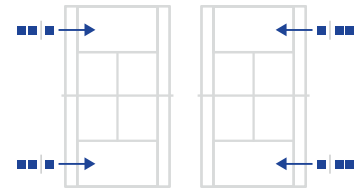


COMPETITION
DOUBLE FIELD
4 X 1240W
POLE HEIGHT: 11M

Class III



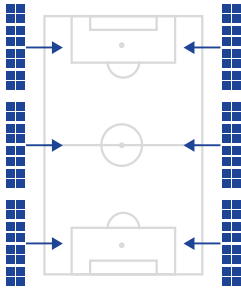
TRAINING
SINGLE FIELD
4 X 310W
POLE HEIGHT: 8M



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

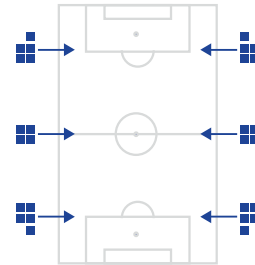
SOCCER

Class II



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

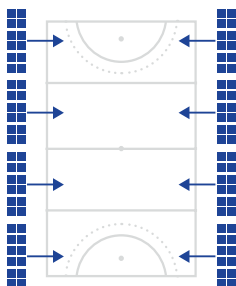
Class III



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.



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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.

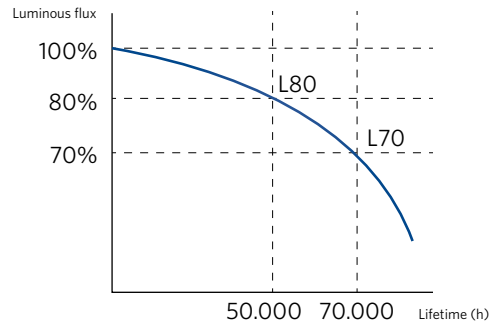
Power factor (pf)

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

U19
UGR value ≤ 19

W
Wide beam angle

WH
White

XN
Extra narrow



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