

LED line PRIME High Bay PHANTOM 190 200W 4000K 38000lm 1-10V 90° with microwave sensor



Phantom luminaires – innovative and energy-saving solutions

Phantom luminaires are a series of products available in three power variants – 100 W, 150 W and 200 W, and three different light distribution angles, adjustable with lenses – 60°, 90° and 120°. Thanks to the high light efficiency of 190 lm/W, these luminaires allow the use of lower-power variants in places where luminaires with higher energy consumption were previously necessary.

Advanced detection technology and energy savings

Phantom luminaires work with Merrytek MC079D RC2 sensors, which offer a number of advanced functions:

- **Two detection modes:** high sensitivity and interference immunity mode, making them ideal for environments with metal surfaces that reflect the signal.
- **Detection range:** up to 15 m mounting height with a detection angle of 360° (ceiling) or 150° (wall).
- **Dimming functions:** 0-10 V, with the possibility of setting 2- or 3-step dimming, which allows you to adjust the lighting level to the current conditions.
- **Daylight priority function:** automatic adjustment of the light intensity to the daylight level, which allows savings of up to 45%.
- **Resistance to difficult conditions:** possibility of working in the temperature range from -35°C to +45°C and IP65 protection class, which allows for installation in demanding environments.

A Merrytek MH10 remote controller is required to set the sensor operation.

Durability and safety of use

The high mechanical resistance class IK08 protects the luminaires against damage with energy up to 5 J, and the aluminum housing ensures effective heat dissipation. Additionally, the MC079D RC2 sensors are designed for long life - 5-year warranty.

Application

Thanks to their durability and flexible configuration options, Phantom luminaires are ideal for illuminating sports facilities, warehouses and industrial environments. Their resistance to conductive dust, moisture and dirt makes them a reliable solution in difficult conditions.



Beam angle



Ambient temperature suitable for operation



LED type



LED quantity



Voltage range and voltage type



IK protection rating



Lifespan

Parameter	Value
Luminous efficacy	190 lm/W
Power	200 W
Colour of the light	White
Energy efficiency class 2019/2015	B
Luminous flux	38000 lm
Correlated colour temperature	4000 K
Colour consistency in McAdam ellipses	≤6
Standby power	0
IP protection rating	65
Warranty (years)	5
Sensor type	MC079D RC2
Detecting Area (Radius)	1m/s: 25% - 3m /50% - 4m/ 75% - 7m/100% - 9m; 0,3m/s: 25% - 4m /50% - 6m/ 75% - 10m/100% - 13m
Dimmable function	1-10
Survival factor	0.9
Lifetime L70B50	100 000
Hold time	5 sek /30 sek/1 min/3 min/ 5min/10 min/2 0min/30 min
Stand-by dimming level	10% (1,4–1,6 V), 20% (1,9–2,1 V), 30% (2,9–3,1 V), 50% (4,9–5,1 V)
Supply voltage range and voltage type	100~277 VAC
Frequency of the supply voltage	50/60Hz
Colour rendering index Ra	70
The lumen maintenance factor	96 %
Beam angle	90 °
Sensor type	Microwave
Material (cover)	polycarbonate
Material (housing)	aluminum
LED type	SMD 2835

Parameter	Value
LED quantity	640
Power Factor	0,95
Number of on/off cycles	50000
Colour consistency in McAdam ellipses	≤6
Ambient temperature suitable for operation	-30÷45 °C
For indoor and outdoor use	YES
IEC protection class	I
IK protection rating	08
Full box quantity	1 pc
Lamp's warm-up time to 60%	1
Height	156 mm
Product weight with packaging	3200 g
EPREL ID	1 774 479
Date of first placement on the market	02.10.2024
Form of the product (EPREL)	Source&Glass
Angle for useful luminous flux (EPREL)	Sphere 360 degrees
Is the product equipped with an integrated light source? (EPREL)	Yes
Non-directional or directional light source (EPREL)	NDLS
Mains or non- mains light source (EPREL)	NMLS
Connected light source (EPREL)	No
Colour-tuneable light source (EPREL)	No
Total luminous flux (EPREL)	38 950
On-mode power Pon (EPREL)	190
Useful luminous flux Φuse (EPREL)	38 950
Beam angle in degrees (EPREL)	120

Single packaging



Width 380 mm
Height 165 mm
Length 380 mm
Weight 3,2 kg
1

Bulk packaging



Outer box quantity

1 pcs.

Europallet

