

PRODUCT DATASHEET

BLKH RD EL SN 300 P 20.5W MS 840 WT

BULKHEAD ROUND EMERGENCY SENSOR | Robust wall and ceiling luminaire with IP65 and IK10 protection, sensor and emergency lighting function



Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Corridors, stairways, entrance areas
- Passages, underpasses
- Public areas

Product benefits

- Multiple adjustments of sensor range, daylight detection and hold time
- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Convenient visualization of results of automatic test with an included control LED
- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen) on the driver
- Flexible mounting patterns for convenient installation
- Suitable for use in dusty and damp locations thanks to high IP rating
- Suitable for use in public areas thanks to high IK rating
- Separate decor element available for an aesthetic and functional product design

Product features

- High frequency sensor for daylight and motion detection



- Certified according to European norms (EN 60598-2-22)
- Luminaire suited for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO₄
- Ambient temperature in operation: 0...+35 °C
- UV-stabilized polycarbonate (PC) housing, PC-diffuser
- Impact resistance: IK10
- Type of protection: IP65

TECHNICAL DATA

Electrical data

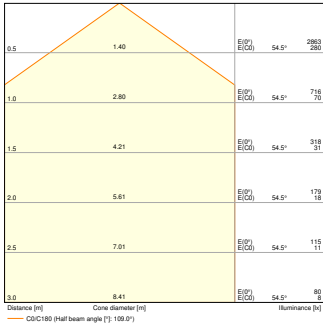
Nominal wattage	20.5 W / 18 W / 15.5 W / 13.50 W ¹⁾
Nominal voltage	220...240 V
Mains frequency	50/60 Hz
Nominal current	94mA / 85mA / 76mA / 67 mA
Inrush current	9.5 A
Inrush current time T _{h50}	26.8 µs
Max. number of luminaires per miniature circuit breaker B16	79
Max. number of luminaires per miniature circuit breaker C10	63
Max. number of luminaires per miniature circuit breaker C16	101
Power factor λ	> 0.90
Total harmonic distortion	< 15 %
Protection class	II
Surge capability (L-N)	1000 V
Operating mode	Integrated LED driver

¹⁾ For possible options refer to lumen/power table image

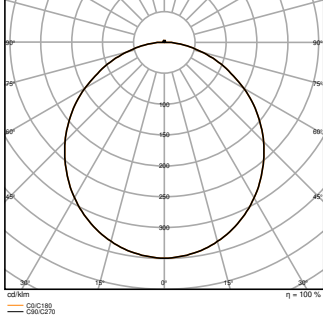
Photometrical data

Luminous flux	2300 lm / 2000 lm / 1700 lm / 1400 lm ¹⁾
Luminous efficacy	113 lm/W / 111 lm/W / 109 lm/W / 104 lm/W ¹⁾
Color temperature	3000 K / 4000 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	5 sdcn
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	120 °

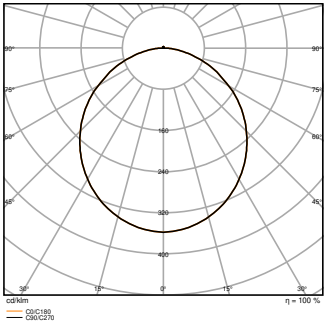
¹⁾ For possible options refer to lumen/power table image



BLKH 300 P 16W 830 2000lm



BLKH 300 P 16W 840 2000lm



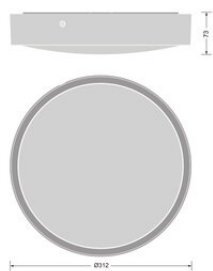
BLKH 300 P 16W 830 2000lm

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
20.5 W	3000 K	2190 lm	107 lm/W
20.5 W	4000 K	2300 lm	113 lm/W
18 W	3000 K	1900 lm	106 lm/W
18 W	4000 K	2000 lm	111 lm/W
15.5 W	3000 K	1620 lm	104 lm/W
15.5 W	4000 K	1700 lm	109 lm/W
13.5 W	3000 K	1320 lm	98 lm/W
13.5 W	4000 K	1400 lm	104 lm/W

Dimensions & Weight

Diameter	312.00 mm
Height	73.00 mm
Product weight	1190.00 g



BLKH RD/SEN/DA/EM 300 P 16W

Materials & Colors

Product color	White
Housing color	White
Body material	Polycarbonate (PC)
Cover material	Polycarbonate (PC)
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	0...+35 °C
Temperature range at storage	-20...+80 °C
Type of connection	Screwless terminal
Type of protection	IP65
Protection class IK (shock resistance)	IK10
Dimmable	No
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Outdoor
With light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	74 000 h ¹⁾
Lifespan L80/B10 at 25 °C	56000 h ¹⁾
Lifespan L80/B50 at 25 °C	65000 h

Lifespan L90/B10 at 25 °C	46000 h
Number of switching cycles	100000

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

Output current	370...320...270...220 mA
ECG - Output ripple current	< 5 %

Sensor

Type of sensor	Motion / Light
Sensor technology	Microwave
Sensor detection angle	150 °
Sensor controlled switching time	5 s...30 min
Detection range of motion sensor	3...8 m
Detection threshold of daylight sensor	2...50 lx

BATTERY

Type of Battery	LiFePO4
Battery size [GMS]	Others
Nominal voltage of battery	3.2 V
Nominal capacity of battery	4500 mAh
Battery charging time	24 h

Emergency lighting

Type of Emergency Lighting (EL)	EL unit (battery and controller) for decentral operation included
Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Non-maintained / Maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	20.5 W
Wattage in emergency operation mode	2.3 W
Luminous flux in maintained operation mode	2300 lm
Luminous flux in emergency operation mode	380 lm
Battery life in emergency operation mode	3 h
Integrated test switch	No

Certificates & Standards

Standards	CE / CB / UKCA / EAC
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Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Only by an expert

Additional product data

Product remark	Available from June 2025
Added function	EVERLOOP / MULTI SELECT

Accessories Optional

Product image	Product name	EAN
	BLKH RD Eyelid 300 BK	4099854286797
	BLKH RD Eyelid 300 WT	4099854286810
	LISOEV 300R 15W 830 840 BLKH	4099854311970
	DR DS-P- 18/220-240/370 BLKH	4099854286858

EQUIPMENT / ACCESSORIES

- Additional cover rings in different designs available
- Mounting screws and dowels included
- Anti-theft screw included

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	BULKHEAD RD EMERGENCY AND SENSOR
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11234787
	Legal information	Legal Insert G11234785
	Legal information	Light Source Insert G11232870
	Declarations of conformity	BLKH RD EL SN
	Declarations of conformity UKCA	BLKH RD EL SN
Photometric and lighting design files		Document name
	IES file (IES)	BLKH 300 P 16W 830 2000lm
	IES file (IES)	BLKH 300 P 16W 840 2000lm
	LDT file (Eulumdat)	BLKH 300 P 16W 830 2000lm
	LDT file (Eulumdat)	BLKH 300 P 16W 840 2000lm
	UGR file (UGR table)	BLKH 300 P 16W 830 2000lm
	UGR file (UGR table)	BLKH 300 P 16W 840 2000lm
	Light distribution curve type cone	BLKH 300 P 16W 830 2000lm
	Light distribution curve type cone	BLKH 300 P 16W 840 2000lm
	Light distribution curve type polar	BLKH 300 P 16W 830 2000lm
	Light distribution curve type polar	BLKH 300 P 16W 840 2000lm
CAD/BIM files		Document name
	BIM Revit 3D	Bulkhead Round

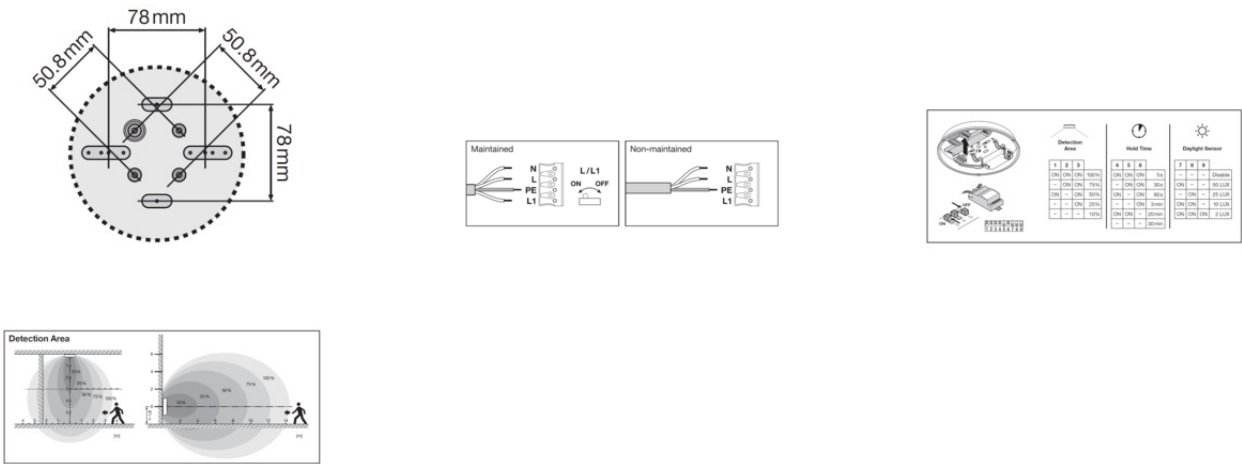
CAD/BIM files		Document name
	CAD STEP 3D	BLKH G2 300

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854286544	Folding box 1	77 mm x 317 mm x 317 mm	1485.00 g	7.74 dm³
4099854286551	Shipping box 8	650 mm x 330 mm x 335 mm	12540.00 g	71.86 dm³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION



References / Links

– For Guarantee see www.ledvance.com/guarantee

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