PRODUCT DATASHEET
BLKH RD SN 300 P 18 W ML 83040 WT

BULKHEAD ROUND SENSOR | Robust wall and ceiling luminaire with IP65 and IK10 protection and sensor



Areas of application

- 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
- Highly versatile due to selectable CCT and lumen steps (Multi Select) on the driver
- Flexible mounting patterns for convenient installation
- Suitable for use in public areas thanks to high IK rating
- Suitable for use in dusty and damp locations thanks to high IP rating
- Suitable for use in emergency lighting systems (DC capable)
- Separate decor element available for an aesthetic and functional product design

Product features

- High frequency sensor for daylight and motion detection
- UV-stabilized polycarbonate (PC) housing, PC-diffuser
- High luminous efficacy: > 120 lm/W for 3000 K and 4000 K
- Impact resistance: IK10
- Type of protection: IP65
- Push wire terminal for tool-free connection
- Through-wiring possible

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TECHNICAL DATA

Electrical data

Nominal wattage	17.5 W / 15.5 W / 13 W / 11 W [1)]
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	80…70…60…50 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
Operating mode	Integrated LED driver

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

Photometrical data

Luminous flux	2280 lm / 1980 lm / 1690 lm / 1390 lm [1)]
Luminous efficacy	128 lm/W / 127 lm/W / 130 lm/W / 126 lm/W [1)]
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	5 sdcm
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

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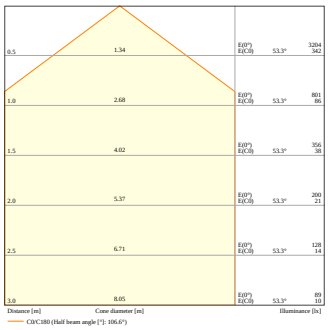
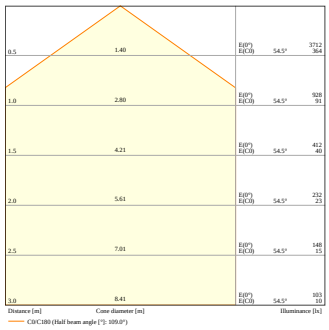
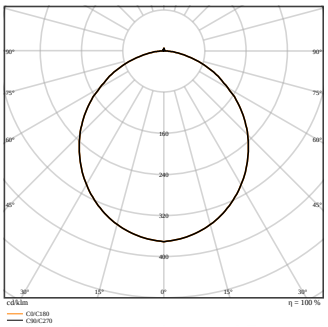


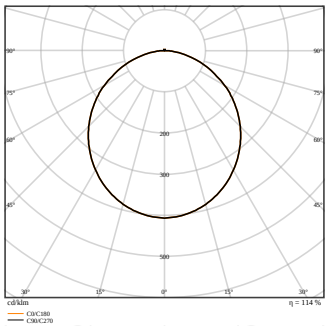
BLKH 300 P 18W 830 2160lm



BLKH 300 P 18W 840 2280lm



BLKH 300 P 18W 830 2160lm



BLKH 300 P 18W 840 2280lm

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
18 W	4000 K	2280 lm	126 lm/W
18 W	3000 K	2160 lm	120 lm/W
15.5 W	4000 K	1980 lm	127 lm/W
15.5 W	3000 K	1880 lm	121 lm/W
13 W	4000 K	1690 lm	130 lm/W
13 W	3000 K	1610 lm	122 lm/W
11 W	4000 K	1390 lm	126 lm/W
11 W	3000 K	1330 lm	120 lm/W

Dimensions & Weight

Diameter	312.00 mm
Height	73.00 mm
Product weight	940.00 g

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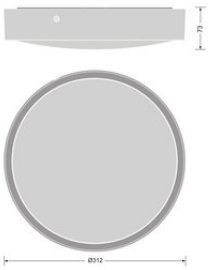

BULKHEAD ROUND 300 P

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
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	-20…+40 °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
Replaceable light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	70000 h [1)]

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Lifespan L80/B10 at 25 °C	55000 h [1)]
Lifespan L80/B50 at 25 °C	65000 h
Lifespan L90/B10 at 25 °C	40000 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

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None
Wattage in emergency operation mode	17.5 W
Luminous flux in emergency operation mode	2280 lm

Certificates & Standards

Standards	CE / CB / UKCA / EAC / ENEC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00029-V01.01-EN
Replaceable light source (EPREL)	Only by an expert

Additional product data

Added function	EVERLOOP / MULTI LUMEN / MULTI COLOR

Accessories Optional

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Product image	Product name	EAN
	BLKH RD Eyelid 300 BK	4099854286797
	BLKH RD Eyelid 300 WT	4099854286810
	BLKH RD RING 300 BK	4099854880759
	BLKH RD RING 300 WT	4099854880773

EQUIPMENT / ACCESSORIES

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

Upgrade and replacement components

Components Light Source

Product image	Product name	EAN
	LISOEV 300R 15W 830 840 BLKH	4099854311970

Components Driver

Product image	Product name	EAN
	DR DS-P- 18/220-240/370 BLKH	4099854286858

Safety advice

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

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DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	BLKH RD GEN2
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Light Source Insert G11233325
PDF	Legal information	Legal Insert G11234785
PDF	Legal information	Safety Insert G11234787
PDF	Declarations of conformity	BLKH RD SEN
PDF	Declarations of conformity UKCA	BLKH RD SEN
PDF	EPD	EPD EN BULKHEAD ROUND

	Photometric and lighting design files	Document name
IES	IES file (IES)	BLKH 300 P 18W 830 2160lm
IES	IES file (IES)	BLKH 300 P 18W 840 2280lm
LDT	LDT file (Eulumdat)	BLKH 300 P 18W 830 2160lm
LDT	LDT file (Eulumdat)	BLKH 300 P 18W 840 2280lm
ULD	ULD file (DIALux)	BLKH RD SEN 300 P 18W CPS WT
ROLF	ROLF file (RELUX)	BLKH RD SEN 300 P 18W CPS WT
	UGR file (UGR table)	BLKH 300 P 18W 830 2160lm
	UGR file (UGR table)	BLKH 300 P 18W 840 2280lm
	Light distribution curve type cone	BLKH 300 P 18W 830 2160lm
	Light distribution curve type cone	BLKH 300 P 18W 840 2280lm

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	Photometric and lighting design files	Document name
	Light distribution curve type polar	BLKH 300 P 18W 830 2160lm
	Light distribution curve type polar	BLKH 300 P 18W 840 2280lm

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

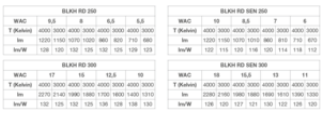
	Tender texts	Document name
	Tender documents	BULKHEAD ROUND SENSOR 300 P 18W CPS WT-EN

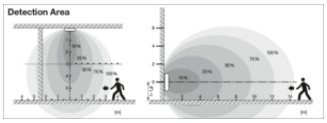
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854286247	Folding box 1	77 mm x 317 mm x 317 mm	1074.00 g	7.74 dm^3
4099854286254	Shipping box 8	650 mm x 330 mm x 335 mm	9252.00 g	71.86 dm^3

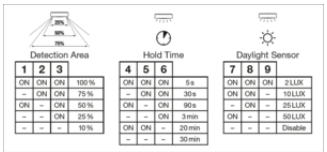
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION





	B10	B16	C10	C16
BLKH RD 250 P 9.5W ML 83040 BK	155	248	155	248
BLKH RD 250 P 9.5W ML 83040 WT				
BLKH RD 300 P 17W ML 83040 BK	63	79	63	101
BLKH RD 300 P 17W ML 83040 WT				
BLKH RD SN 250 P 10W ML 83040 BK	140	224	140	224
BLKH RD SN 250 P 10W ML 83040 WT				
BLKH RD SN 300 P 18 W ML 83040 BK	63	79	63	101
BLKH RD SN 300 P 18 W ML 83040 WT				



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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