

PRODUCT DATASHEET

BLKH RD SEN 250 P 10W CPS BK

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 power steps (Multi Color / Multi Lumen) 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
- 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

TECHNICAL DATA

Electrical data

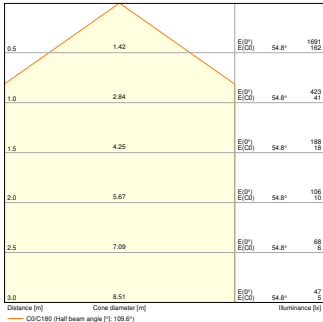
Nominal wattage	10 W / 8.5 W / 7 W / 6 W ¹⁾
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	46...41...35...30 mA
Inrush current	3.44 A
Inrush current time T _{h50}	3.284 µs
Max. number of luminaires per miniature circuit breaker B16	224
Max. number of luminaires per miniature circuit breaker C10	140
Max. number of luminaires per miniature circuit breaker C16	224
Power factor λ	> 0.70
Total harmonic distortion	< 20 %
Protection class	II
Operating mode	Integrated LED driver

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

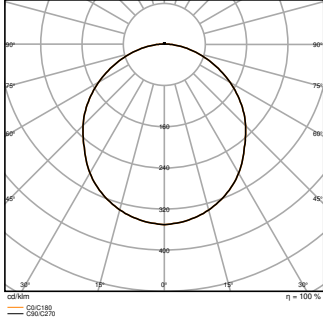
Photometrical data

Luminous flux	1220 lm / 1070 lm / 860 lm / 710 lm ¹⁾
Luminous efficacy	122 lm/W / 120 lm/W / 118 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 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 °

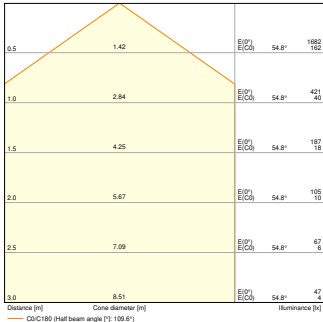
¹⁾ For possible options refer to lumen/power table image



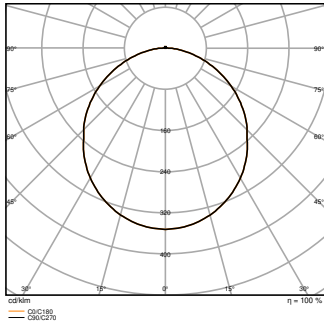
BLKH 250 P 10W 840 1200lm



BLKH 250 P 20W 830 1200lm



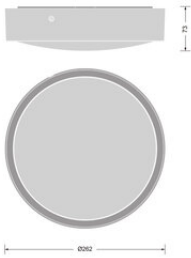
BLKH 250 P 20W 830 1200lm



BLKH 250 P 10W 840 1200lm

Dimensions & Weight

Diameter	262.00 mm
Height	73.00 mm
Product weight	863.00 g



BLKH RD/SEN/EM 250 P 10W CPS

Materials & Colors

Product color	Black
Housing color	Black
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
LED module replaceable	Only by an expert
With light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	70000 h ¹⁾
Lifespan L80/B10 at 25 °C	55000 h ¹⁾
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	350...300...250...200 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

Certificates & Standards

Standards	CE / CB / UKCA / EAC / ENEC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No

Additional product data

Product remark	Available from September 2024
Added function	EVERLOOP / MULTI SELECT

EQUIPMENT / ACCESSORIES

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

DOWNLOAD DATA

Documents and certificates		Document name
	User Instruction	BLKH RD GEN2
	Addon Technical Information	Light Source Insert BLKH RD GEN2
	Legal information	Legal Insert BLKH RD

Photometric and lighting design files		Document name
	IES file (IES)	BLKH 250 P 10W 840 1200lm
	IES file (IES)	BLKH 250 P 20W 830 1200lm
	LDT file (Eulumdat)	BLKH 250 P 10W 840 1200lm
	LDT file (Eulumdat)	BLKH 250 P 20W 830 1200lm
	UGR file (UGR table)	BLKH 250 P 10W 840 1200lm
	UGR file (UGR table)	BLKH 250 P 20W 830 1200lm
	LDC typ cone	BLKH 250 P 10W 840 1200lm
	LDC typ cone	BLKH 250 P 20W 830 1200lm
	LDC typ polar	BLKH 250 P 10W 840 1200lm
	LDC typ polar	BLKH 250 P 20W 830 1200lm

CAD/BIM files		Document name
	CAD_STEP_3D	BLKH G2 250

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854286162	Folding box 1	77 mm x 266 mm x 266 mm	966.00 g	5.45 dm ³
4099854286179	Shipping box 8	545 mm x 280 mm x 335 mm	8278.00 g	51.12 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

BLKXH RD 250				
WAC	6,5	8	6,5	6,5
T (lm)	4000	3000	4000	3000
lm	1200	1100	1000	800
lmW	120	120	120	120

BLKXH RD SEN 250				
WAC	13	6,5	7	6
T (lm)	4000	3000	4000	3000
lm	1200	1100	1000	800
lmW	120	120	120	120

	B10	B16	C10	C16
BLKXH RD 250 P 10W CPS BK	155	248	155	248
BLKXH RD 250 P 10W CPS WT	83	79	83	101
BLKXH RD 250 P 10W CPS BK	140	224	140	224
BLKXH RD SEN 250 P 10W CPS BK	63	79	63	101
BLKXH RD SEN 250 P 10W CPS WT	63	79	63	101

Detection Area		
1	2	3
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON

Hold Time		
4	5	6
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON

Daylight Sensor		
7	8	9
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	ON	ON

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.