

PRODUCT DATASHEET

BLKH RD SEN 250 P 10W CPS 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 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
- 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

TECHNICAL DATA

Electrical data

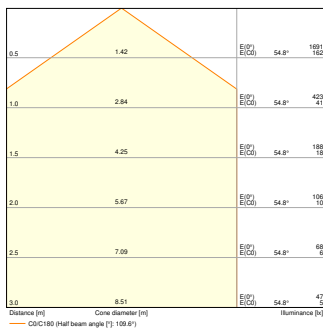
Nominal wattage	10 W / 8.5 W / 7 W / 6 W ¹⁾
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	46...41...35...30 mA
Inrush current	3.44 A
Inrush current time T _{h50}	3.284 µs
Max. number of luminaires per miniature circuit breaker B16	224
Max. number of luminaires per miniature circuit 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

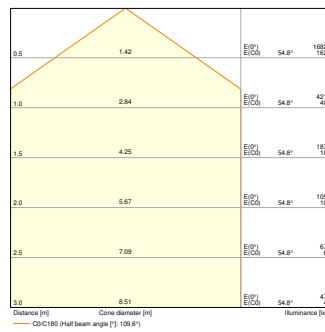
Photometrical data

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 °

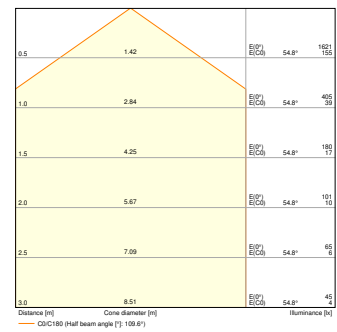
¹⁾ For possible options refer to lumen/power table image



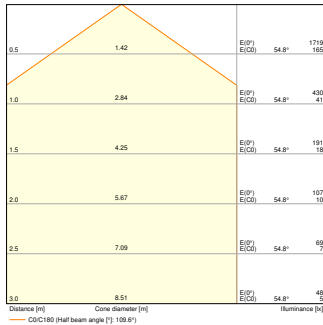
BLKH 250 P 10W 840 1200lm



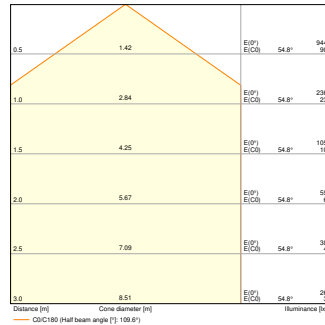
BLKH 250 P 20W 830 1200lm



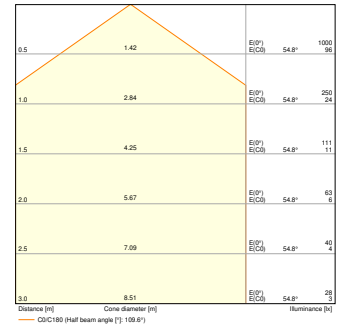
BLKH 250 P 10W 830 1150lm



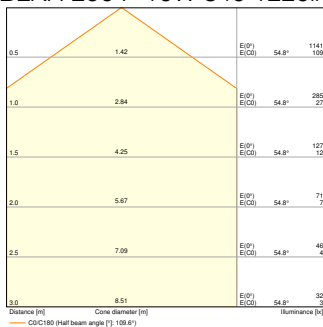
BLKH 250 P 10W 840 1220lm



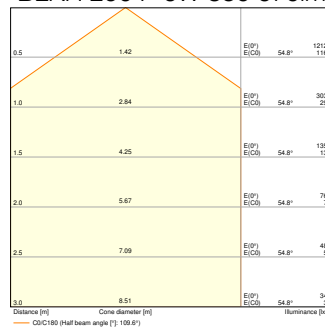
BLKH 250 P 6W 830 670lm



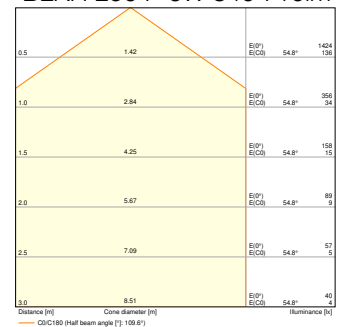
BLKH 250 P 6W 840 710lm



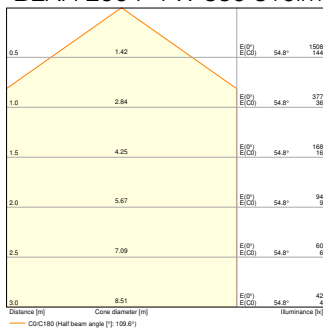
BLKH 250 P 7W 830 810lm



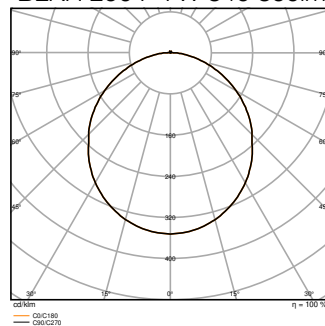
BLKH 250 P 7W 840 860lm



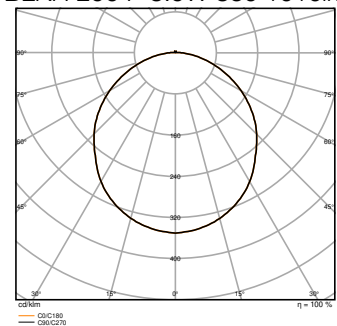
BLKH 250 P 8.5W 830 1010lm



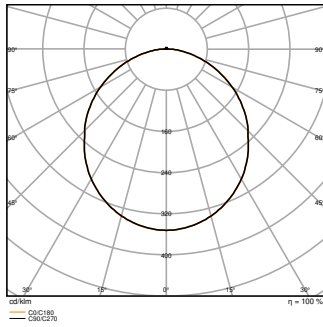
BLKH 250 P 8.5W 840 1070lm



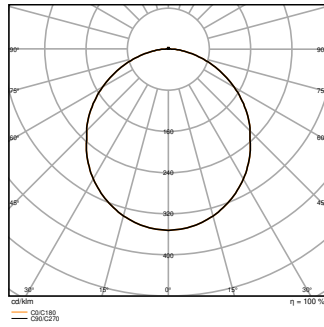
BLKH 250 P 10W 840 1200lm



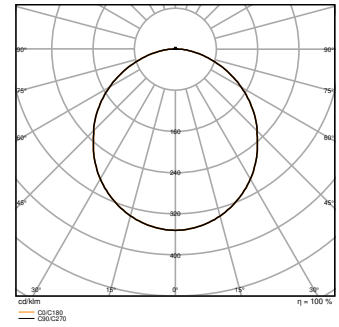
BLKH 250 P 20W 830 1200lm



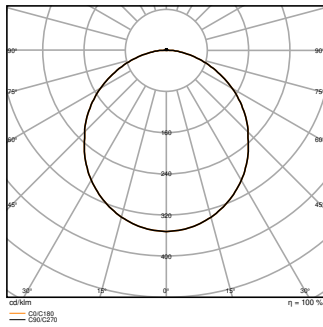
BLKH 250 P 10W 830 1150lm



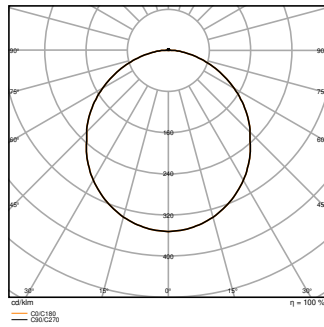
BLKH 250 P 10W 840 1220lm



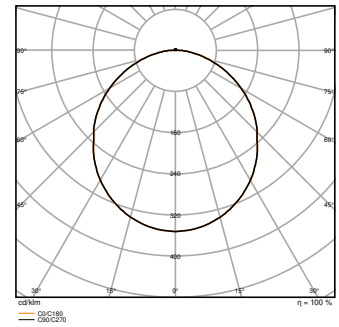
BLKH 250 P 6W 830 670lm



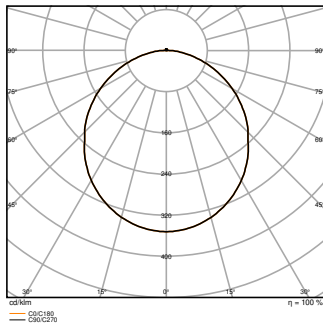
BLKH 250 P 6W 840 710lm



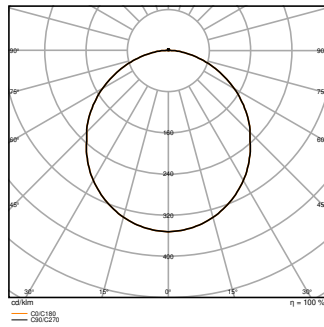
BLKH 250 P 7W 830 810lm



BLKH 250 P 7W 840 860lm



BLKH 250 P 8.5W 830 1010lm



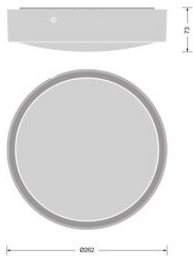
BLKH 250 P 8.5W 840 1070lm

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
10 W	4000 K	1220 lm	122 lm/W
10 W	3000 K	1150 lm	115 lm/W
8.5 W	4000 K	1070 lm	120 lm/W
8.5 W	3000 K	1010 lm	116 lm/W
7 W	4000 K	860 lm	120 lm/W
7 W	3000 K	810 lm	114 lm/W
6 W	4000 K	710 lm	118 lm/W
6 W	3000 K	670 lm	112 lm/W

Dimensions & Weight

Diameter	262.00 mm
Height	73.00 mm
Product weight	720.00 g



BLKH RD/SEN/EM 250 P 10W CPS

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	-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⁾
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	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

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	10 W
Luminous flux in emergency operation mode	1220 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 SELECT
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Accessories Optional

Product image	Product name	EAN
	BLKH RD Eyelid 300 BK	4099854286797
	BLKH RD Eyelid 300 WT	4099854286810
	BLKH RD Eyelid 250 WT	4099854286773
	BLKH RD Eyelid 250 BK	4099854286759
	LISOEV 250R 8W 830 840 BLKH	4099854311918
	DR DS-P- 10/220-240/350 BLKH	4099854286834

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 250R 8W 830 840 BLKH	4099854311918
Components Driver		

Product image	Product name	EAN
	DR DS-P- 10/220-240/350 BLKH	4099854286834

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	BLKH RD GEN2
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Light Source Insert G11233325
	Legal information	Legal Insert G11234785
	Legal information	Safety Insert G11234787
	Declarations of conformity	BLKH RD SEN
	Declarations of conformity UKCA	BLKH RD SEN
Photometric and lighting design files		Document name
	IES file (IES)	BLKH 250 P 10W 830 1150lm
	IES file (IES)	BLKH 250 P 10W 840 1220lm
	IES files (IES, additional)	BLKH 250 P 6W 830 670lm
	IES files (IES, additional)	BLKH 250 P 6W 840 710lm

Photometric and lighting design files		Document name
	IES files (IES, additional)	BLKH 250 P 7W 830 810lm
	IES files (IES, additional)	BLKH 250 P 7W 840 860lm
	IES files (IES, additional)	BLKH 250 P 8.5W 830 1010lm
	IES files (IES, additional)	BLKH 250 P 8.5W 840 1070lm
	LDT file (Eulumdat)	BLKH 250 P 10W 830 1150lm
	LDT file (Eulumdat)	BLKH 250 P 10W 840 1220lm
	LDT files (Eulumdat, additional)	BLKH 250 P 6W 830 670lm
	LDT files (Eulumdat, additional)	BLKH 250 P 6W 840 710lm
	LDT files (Eulumdat, additional)	BLKH 250 P 7W 830 810lm
	LDT files (Eulumdat, additional)	BLKH 250 P 7W 840 860lm
	LDT files (Eulumdat, additional)	BLKH 250 P 8.5W 830 1010lm
	LDT files (Eulumdat, additional)	BLKH 250 P 8.5W 840 1070lm
	ULD file (DIALux)	BLKH RD SEN 250 P 10W CPS WT
	ROLF file (RELUX)	BLKH RD SEN 250 P 10W CPS WT
	UGR file (UGR table)	BLKH 250 P 10W 840 1200lm
	UGR file (UGR table)	BLKH 250 P 20W 830 1200lm
	UGR file (UGR table)	BLKH 250 P 10W 830 1150lm
	UGR file (UGR table)	BLKH 250 P 10W 840 1220lm

Photometric and lighting design files		Document name
	UGR file (UGR table)	BLKH 250 P 6W 830 670lm
	UGR file (UGR table)	BLKH 250 P 6W 840 710lm
	UGR file (UGR table)	BLKH 250 P 7W 830 810lm
	UGR file (UGR table)	BLKH 250 P 7W 840 860lm
	UGR file (UGR table)	BLKH 250 P 8.5W 830 1010lm
	UGR file (UGR table)	BLKH 250 P 8.5W 840 1070lm
	Light distribution curve type cone	BLKH 250 P 10W 840 1200lm
	Light distribution curve type cone	BLKH 250 P 20W 830 1200lm
	Light distribution curve type cone	BLKH 250 P 10W 830 1150lm
	Light distribution curve type cone	BLKH 250 P 10W 840 1220lm
	Light distribution curve type cone	BLKH 250 P 6W 830 670lm
	Light distribution curve type cone	BLKH 250 P 6W 840 710lm
	Light distribution curve type cone	BLKH 250 P 7W 830 810lm
	Light distribution curve type cone	BLKH 250 P 7W 840 860lm
	Light distribution curve type cone	BLKH 250 P 8.5W 830 1010lm
	Light distribution curve type cone	BLKH 250 P 8.5W 840 1070lm
	Light distribution curve type polar	BLKH 250 P 10W 840 1200lm
	Light distribution curve type polar	BLKH 250 P 20W 830 1200lm
	Light distribution curve type polar	BLKH 250 P 10W 830 1150lm
	Light distribution curve type polar	BLKH 250 P 10W 840 1220lm
	Light distribution curve type polar	BLKH 250 P 6W 830 670lm
	Light distribution curve type polar	BLKH 250 P 6W 840 710lm
	Light distribution curve type polar	BLKH 250 P 7W 830 810lm
	Light distribution curve type polar	BLKH 250 P 7W 840 860lm
	Light distribution curve type polar	BLKH 250 P 8.5W 830 1010lm
	Light distribution curve type polar	BLKH 250 P 8.5W 840 1070lm
CAD/BIM files		Document name
	BIM Revit 3D	Bulkhead Round

CAD/BIM files	Document name
 CAD STEP 3D	BLKH G2 250
Tender texts	Document name
 Tender documents	BULKHEAD ROUND SENSOR 250 P 10W CPS WT-EN

LOGISTICAL DATA

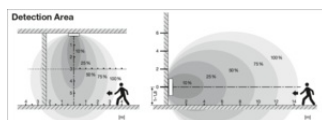
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854286186	Folding box 1	77 mm x 266 mm x 266 mm	823.00 g	5.45 dm ³
4099854286193	Shipping box 8	545 mm x 280 mm x 335 mm	7134.00 g	51.12 dm ³

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

BLKH RD 250				
WAC	8,5	9	9,5	9,5
T (Klm)	4000	3000	4000	3000
Im	1000	1100	1000	800
ImW	100	100	100	100

BLKH RD SEN 250				
WAC	10	8,5	7	6
T (Klm)	4000	3000	4000	3000
Im	1000	1100	1000	800
ImW	100	110	100	110



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

Detection Area			Hold Time			Daylight Sensor		
1	2	3	4	5	6	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
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
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.