

# PRODUCT DATASHEET

## BLKH RD SEN 300 P 18W 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
- 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

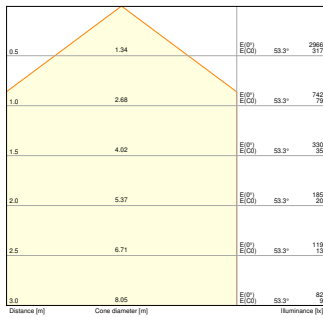
Nominal wattage	17.5 W / 15.5 W / 13 W / 11 W <sup>1)</sup>
Nominal voltage	220...240 V
Mains frequency	50/60 Hz
Nominal current	80...70...60...50 mA
Inrush current	9.5 A
Inrush current time $T_{h50}$	26.8 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	79
Max. number of luminaires per miniature circuit breaker C10	63
Max. number of luminaires per miniature circuit breaker C16	101
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 15 %
Protection class	II
Operating mode	Integrated LED driver

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

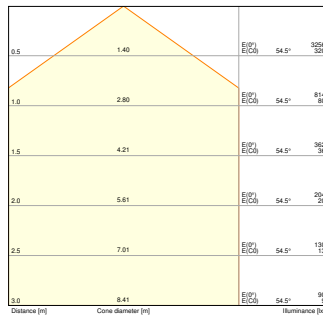
### Photometrical data

Luminous flux	2280 lm / 1980 lm / 1690 lm / 1390 lm <sup>1)</sup>
Luminous efficacy	128 lm/W / 127 lm/W / 130 lm/W / 126 lm/W <sup>1)</sup>
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	5 sdc <sub>m</sub>
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	120 °

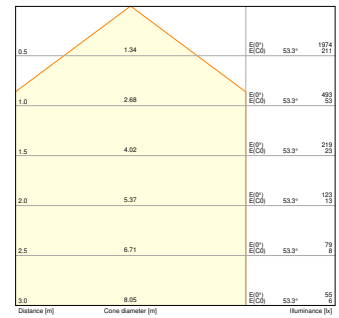
<sup>1)</sup> For possible options refer to lumen/power table image



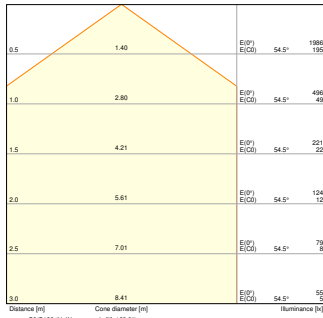
BLKH 300 P 16W 830 2000lm



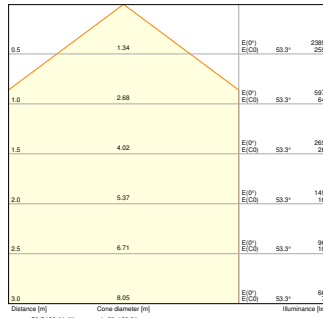
BLKH 300 P 16W 840 2000lm



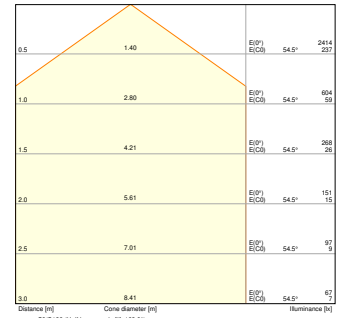
BLKH 300 P 11W 830 1330lm



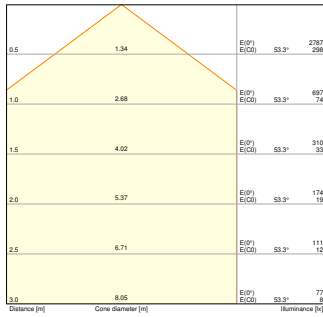
BLKH 300 P 11W 840 1390lm



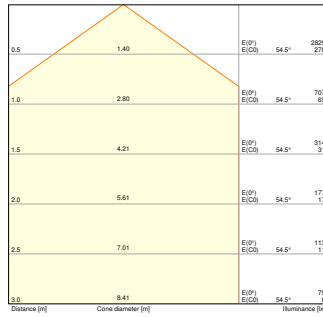
BLKH 300 P 13W 830 1610lm



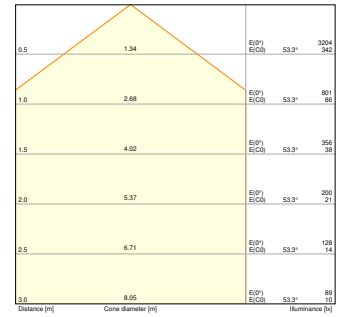
BLKH 300 P 13W 840 1690lm



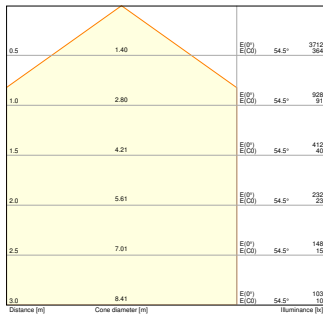
BLKH 300 P 15.5W 830 1880lm



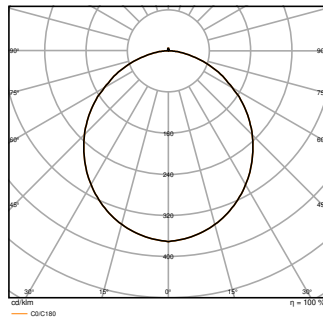
BLKH 300 P 15.5W 840 1980lm



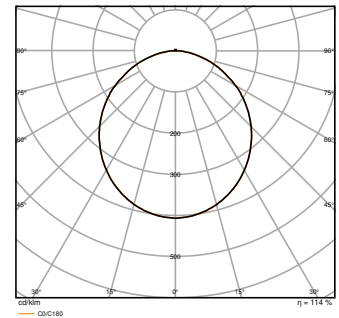
BLKH 300 P 18W 830 2160lm



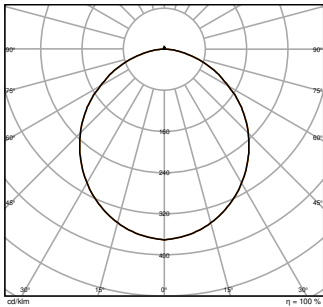
BLKH 300 P 18W 840 2280lm



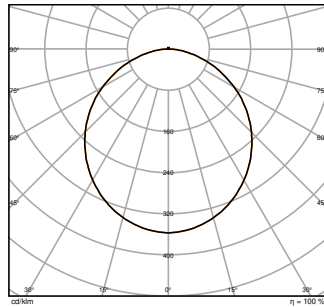
BLKH 300 P 16W 830 2000lm



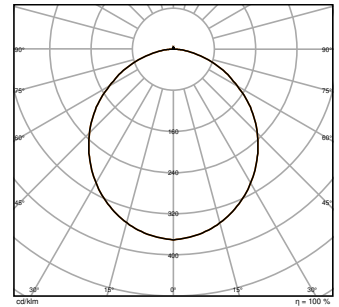
BLKH 300 P 16W 840 2000lm



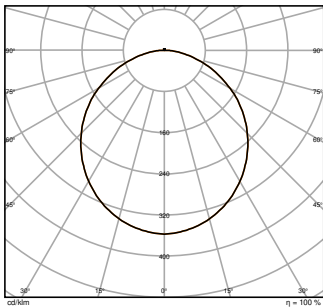
BLKH 300 P 11W 830 1330lm



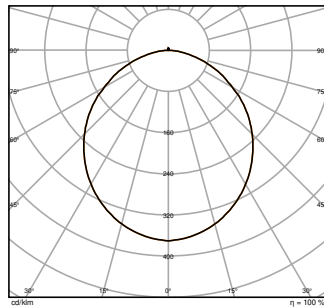
BLKH 300 P 11W 840 1390lm



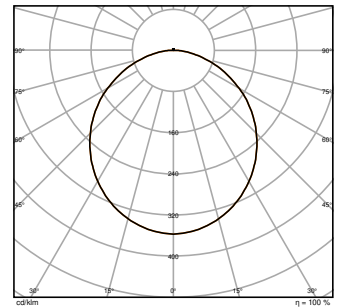
BLKH 300 P 13W 830 1610lm



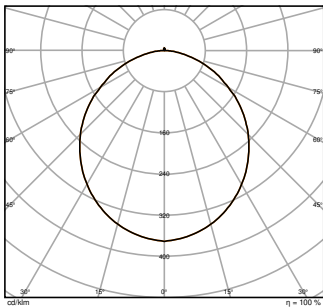
BLKH 300 P 13W 840 1690lm



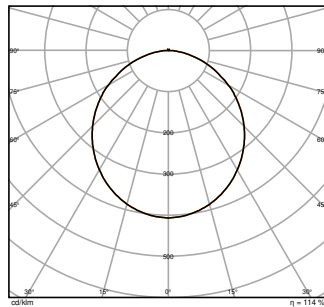
BLKH 300 P 15.5W 830 1880lm



BLKH 300 P 15.5W 840 1980lm



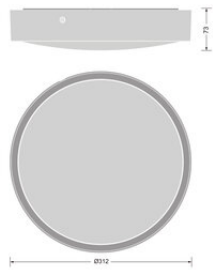
BLKH 300 P 18W 830 2160lm



BLKH 300 P 18W 840 2280lm

### Dimensions & Weight

Diameter	312.00 mm
Height	73.00 mm
Product weight	940.00 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	-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

**Lifespan**

Lifespan L70/B50 at 25 °C	70000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	55000 h <sup>1)</sup>
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

### 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)	Not replaceable


### Additional product data


















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 / safety instructions	BLKH RD GEN2


Documents and certificates		Document name
	Legal information	Legal Insert BLKH RD
	Legal information	Light Source Insert BLKH RD GEN2
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	BLKH RD SEN
	Declarations of conformity UKCA	BLKH RD SEN
Photometric and lighting design files		Document name
	IES file (IES)	BLKH 300 P 18W 830 2160lm
	IES file (IES)	BLKH 300 P 18W 840 2280lm
	IES files (IES, additional)	BLKH 300 P 11W 830 1330lm
	IES files (IES, additional)	BLKH 300 P 11W 840 1390lm
	IES files (IES, additional)	BLKH 300 P 13W 830 1610lm
	IES files (IES, additional)	BLKH 300 P 13W 840 1690lm
	IES files (IES, additional)	BLKH 300 P 15.5W 830 1880lm
	IES files (IES, additional)	BLKH 300 P 15.5W 840 1980lm
	LDT file (Eulumdat)	BLKH 300 P 18W 830 2160lm
	LDT file (Eulumdat)	BLKH 300 P 18W 840 2280lm
	LDT files (Eulumdat, additional)	BLKH 300 P 11W 830 1330lm
	LDT files (Eulumdat, additional)	BLKH 300 P 11W 840 1390lm

	Photometric and lighting design files	Document name
	LDT files (Eulumdat, additional)	BLKH 300 P 13W 830 1610lm
	LDT files (Eulumdat, additional)	BLKH 300 P 13W 840 1690lm
	LDT files (Eulumdat, additional)	BLKH 300 P 15.5W 830 1880lm
	LDT files (Eulumdat, additional)	BLKH 300 P 15.5W 840 1980lm
	ULD file (DIALux)	BLKH RD SEN 300 P 18W CPS WT
	UGR file (UGR table)	BLKH 300 P 16W 830 2000lm
	UGR file (UGR table)	BLKH 300 P 16W 840 2000lm
	UGR file (UGR table)	BLKH 300 P 11W 830 1330lm
	UGR file (UGR table)	BLKH 300 P 11W 840 1390lm
	UGR file (UGR table)	BLKH 300 P 13W 830 1610lm
	UGR file (UGR table)	BLKH 300 P 13W 840 1690lm
	UGR file (UGR table)	BLKH 300 P 15.5W 830 1880lm
	UGR file (UGR table)	BLKH 300 P 15.5W 840 1980lm
	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 16W 830 2000lm
	Light distribution curve type cone	BLKH 300 P 16W 840 2000lm
	Light distribution curve type cone	BLKH 300 P 11W 830 1330lm
	Light distribution curve type cone	BLKH 300 P 11W 840 1390lm
	Light distribution curve type cone	BLKH 300 P 13W 830 1610lm
	Light distribution curve type cone	BLKH 300 P 13W 840 1690lm
	Light distribution curve type cone	BLKH 300 P 15.5W 830 1880lm



Photometric and lighting design files		Document name
	Light distribution curve type cone	BLKH 300 P 15.5W 840 1980lm
	Light distribution curve type cone	BLKH 300 P 18W 830 2160lm
	Light distribution curve type cone	BLKH 300 P 18W 840 2280lm
	Light distribution curve type polar	BLKH 300 P 16W 830 2000lm
	Light distribution curve type polar	BLKH 300 P 16W 840 2000lm
	Light distribution curve type polar	BLKH 300 P 11W 830 1330lm
	Light distribution curve type polar	BLKH 300 P 11W 840 1390lm
	Light distribution curve type polar	BLKH 300 P 13W 830 1610lm
	Light distribution curve type polar	BLKH 300 P 13W 840 1690lm
	Light distribution curve type polar	BLKH 300 P 15.5W 830 1880lm
	Light distribution curve type polar	BLKH 300 P 15.5W 840 1980lm
	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 <sup>3</sup>
4099854286254	Shipping box 8	650 mm x 330 mm x 335 mm	9252.00 g	71.86 dm <sup>3</sup>

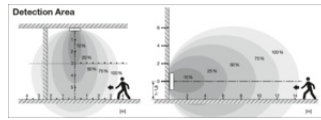
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

**ADDITIONAL CATALOG INFORMATION**

BLKH RD 250					BLKH RD SEN 250				
WAC	8.5	8	6.5	6	WAC	10	8.5	7	6
T (Beam)	4000	3000	4000	3000	4000	4000	3000	4000	3000
Im	10200	11000	10700	10200	8600	8000	7400	6800	6100
Im/W	128	125	132	125	102	118	120	116	114

BLKH RD 300					BLKH RD SEN 300				
WAC	17	16	13.5	10	WAC	18	16.5	13	11
T (Beam)	4000	3000	4000	3000	4000	4000	3000	4000	3000
Im	20700	21400	19800	18800	17000	16000	14800	14100	13000
Im/W	122	125	132	128	108	120	122	121	120



	B10	B16	C10	C16
BLKH RD 250 P 18W CPS BK	155	248	155	248
BLKH RD 250 P 18W CPS WT				
BLKH RD 300 P 18W CPS BK	63	79	63	101
BLKH RD 300 P 18W CPS WT				
BLKH RD SEN 250 P 18W CPS BK	140	224	140	224
BLKH RD SEN 250 P 18W CPS WT				
BLKH RD SEN 300 P 18W CPS BK	63	79	63	101
BLKH RD SEN 300 P 18W CPS WT				

Detection Area				Hold Time			Daylight Sensor		
1	2	3		4	5	6	7	8	9
ON	ON	ON	100%	ON	ON	ON	ON	ON	2 LUX
-	ON	ON	75%	-	ON	ON	ON	ON	10 LUX
ON	-	ON	50%	ON	-	ON	ON	-	25 LUX
-	-	ON	25%	-	-	ON	ON	-	50 LUX
-	-	-	10%	ON	ON	-	ON	-	Disable
				ON	ON	-	ON	-	30 min
				-	-	-	-	-	30 min

References / Links

- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

DISCLAIMER

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