

PRODUCT DATASHEET

BLKH CBO RD 325 V 16W MS 840 WT

BULKHEAD COMBO ROUND | Wall and ceiling luminaire with IK10 and IP65 protection and Multi Select function



Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Corridors, stairways, entrance areas
- Passages, underpasses
- Public areas

Product benefits

- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen) on the driver
- Plug & Upgrade concept for easy conversion to sensor or emergency luminaire
- 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 luminous efficacy: up to 125 lm/W
- Type of protection: IP65
- Impact resistance: IK10
- Luminous flux: up to 1920 lm
- Push wire terminal for tool-free connection
- Lifetime (L70/B50) up to 50,000 h (at 25 °C)
- Ambient temperature in operation: -20...+40 °C
- Through-wiring possible



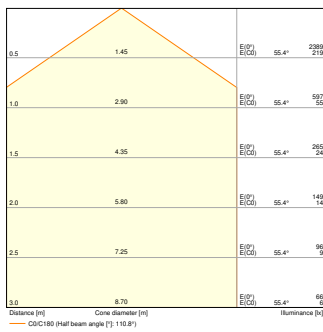
TECHNICAL DATA

Electrical data

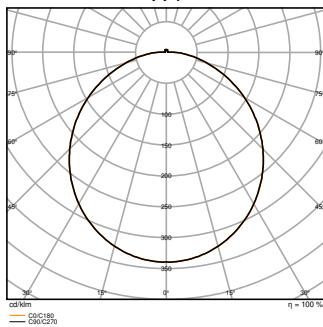
Nominal wattage	16.0 W / 13 W / 9 W
Nominal voltage	220...240 V
Mains frequency	50/60 Hz
Nominal current	90mA / 75mA / 55 mA
Inrush current	2 A
Inrush current time T_{h50}	400 μ s
Max. number of luminaires per miniature circuit breaker B16	40
Max. number of luminaires per miniature circuit breaker C10	24
Max. number of luminaires per miniature circuit breaker C16	40
Power factor λ	> 0.70
Total harmonic distortion	42.2 %
Protection class	II
Operating mode	Integrated LED driver

Photometrical data

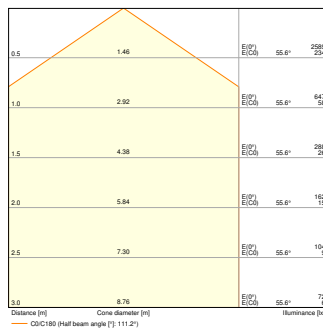
Luminous flux	1920 lm / 1612 lm / 1125 lm
Luminous efficacy	120 lm/W / 124 lm/W / 125 lm/W
Color temperature	3000 K / 4000 K / 5700 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Warm White / Cool White / Cool Daylight
Color rendering index Ra	≥ 80
Standard deviation of color matching	< 6 sdcm
Luminous intensity	700 cd
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °



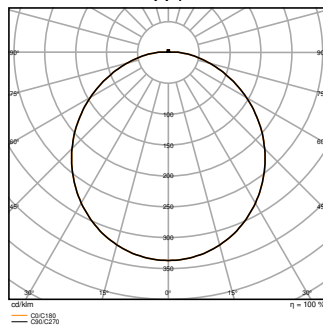
BLKH CBO RD 325 V 16W MS 830
WT



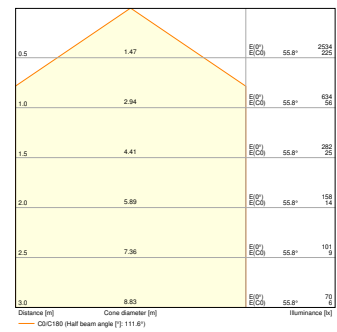
BLKH CBO RD 325 V 16W MS 830
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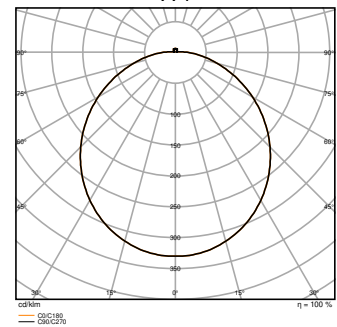
BLKH CBO RD 325 V 16W MS 840
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BLKH CBO RD 325 V 16W MS 840
WT



BLKH CBO RD 325 V 16W MS 857
WT



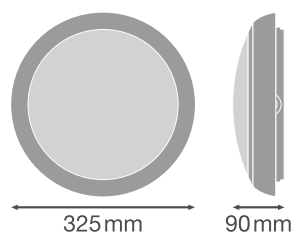
BLKH CBO RD 325 V 16W MS 857
WT

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
16 W	3000 K	1760 lm	110 lm/W
16 W	4000 K	1920 lm	120 lm/W
16 W	5700 K	1920 lm	120 lm/W
13 W	3000 K	1508 lm	116 lm/W
13 W	4000 K	1612 lm	124 lm/W
13 W	5700 K	1612 lm	124 lm/W
9 W	3000 K	1080 lm	120 lm/W
9 W	4000 K	1125 lm	125 lm/W
9 W	5700 K	1125 lm	125 lm/W

Dimensions & Weight

Diameter	325.00 mm
Height	90.00 mm
Product weight	710.00 g



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Materials & Colors

Product color	White
Housing color	White
Body material	Polycarbonate (PC)
Cover material	Acrylonitrile butadiene styrene (ABS)
Light emitting surface material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	650 °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	50000 h ¹⁾
Lifespan L80/B10 at 25 °C	50000 h ¹⁾

Lifespan L80/B50 at 25 °C	32000 h
Lifespan L90/B10 at 25 °C	20000 h
Number of switching cycles	25000

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	170mA/140mA/95 mA
ECG - Output ripple current	5 %

Certificates & Standards

Standards	CE / CB / UKCA / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

Additional product data

Product remark	Available from March 2025
Added function	MULTI SELECT / PLUG & UPGRADE

Accessories Optional

Product image	Product name	EAN
	BLKH CBO RD EYELID 325 WT	4099854481031
	BLKH CBO RD BAT 3.2V 1.8Ah 5.8Wh	4099854492518
	BLKH CBO RD EL CG 100V 1.5W 3h MT	4099854481055
	BLKH CBO RD SENSOR	4099854481093

EQUIPMENT / ACCESSORIES

- Mounting screws and dowels included
- Plug & Upgrade high frequency sensor and emergency kit separately available
- Attachable half visor ring available separately

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 CBO RD 325 WT
	Addon technical information	BLKH CBO RD 325 V 16W MS 840 WT
	Legal information	Safety Insert G11218810
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	BLKH CBO RD 325 V 16W MS 840 WT LEDV
	Legal information	Legal Insert G11231556
	Declarations of conformity	BLKH CBO RD 325 V 16W MS 840 WT
	Declarations of conformity UKCA	BLKH CBO RD 325 V 16W MS 840 WT
Photometric and lighting design files		Document name
	IES file (IES)	BLKH CBO RD 325 V 16W MS 830 WT
	IES file (IES)	BLKH CBO RD 325 V 16W MS 840 WT
	IES file (IES)	BLKH CBO RD 325 V 16W MS 857 WT
	LDT file (Eulumdat)	BLKH CBO RD 325 V 16W MS 830 WT
	LDT file (Eulumdat)	BLKH CBO RD 325 V 16W MS 840 WT

Photometric and lighting design files		Document name
	LDT file (Eulumdat)	BLKH CBO RD 325 V 16W MS 857 WT
	UGR file (UGR table)	BLKH CBO RD 325 V 16W MS 830 WT
	UGR file (UGR table)	BLKH CBO RD 325 V 16W MS 840 WT
	UGR file (UGR table)	BLKH CBO RD 325 V 16W MS 857 WT
	Light distribution curve type cone	BLKH CBO RD 325 V 16W MS 830 WT
	Light distribution curve type cone	BLKH CBO RD 325 V 16W MS 840 WT
	Light distribution curve type cone	BLKH CBO RD 325 V 16W MS 857 WT
	Light distribution curve type polar	BLKH CBO RD 325 V 16W MS 830 WT
	Light distribution curve type polar	BLKH CBO RD 325 V 16W MS 840 WT
	Light distribution curve type polar	BLKH CBO RD 325 V 16W MS 857 WT
CAD/BIM files		Document name
	CAD STEP 3D	BLKH CBO RD

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854480997	Folding box 1	97 mm x 337 mm x 337 mm	870.00 g	11.02 dm ³
4099854481000	Shipping box 10	692 mm x 507 mm x 359 mm	10326.00 g	125.95 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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

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

