

PRODUCT DATASHEET

HB P 200W 840 70DEG IP66 PS

HIGH BAY GEN 5 | High-bay luminaires up to 181 lm/W and attractive UGR



Areas of application

- Replacement for high bay luminaires with mercury vapor or metal halide lamps
- Warehouses, logistic halls
- Industry
- High ceiling (e.g. in shopping malls, airports, commercial buildings, lobbies)

Product benefits

- Highly versatile due to selectable power steps (Multi Lumen) on the housing
- Improved UGR compared to previous generations, down to $UGR \leq 19$ (<150W, 70°) in combination with reflector
- High luminous efficacy
- Energy savings of up to 70 % compared to conventional high bay luminaires
- Optimized weight and size due to compact design

Product features

- Multi Lumen function: power steps selectable
- Different luminous flux and beam angle for mounting heights of ~ 6 m to 18 m in 4000 K or 6500 K
- 0-10 V dimmable
- Lifetime (L80/B10): up to 100,000 h (at 35 °C)



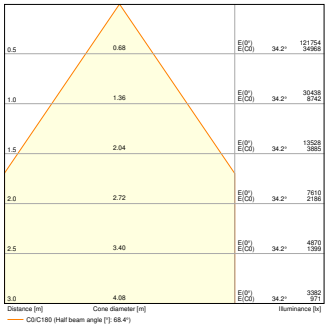
TECHNICAL DATA

Electrical data

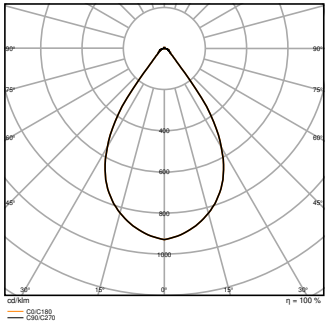
Nominal wattage	200 W / 173 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	880...770 mA
Inrush current	16.7 A
Inrush current time T_{h50}	302 μ s
Max. number of luminaires per miniature circuit breaker B16	9
Max. number of luminaires per miniature circuit breaker C10	8
Max. number of luminaires per miniature circuit breaker C16	12
Power factor λ	> 0.95
Total harmonic distortion	< 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	0-10V

Photometrical data

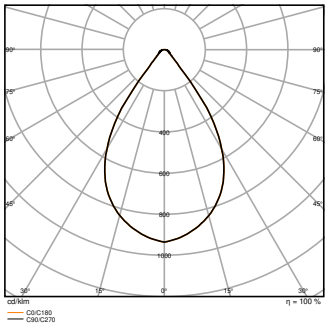
Luminous flux	35000 lm / 30275 lm
Luminous efficacy	175 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 4 sdcn
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0,4
Photobiological safety group acc. to EN62778	RG1
Beam angle	70 °



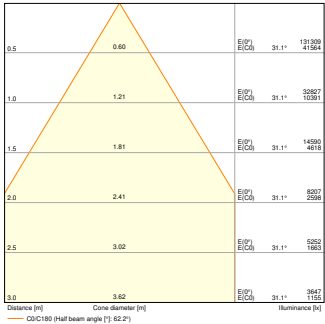
HB P 200W 840 70DEG IP66 PS



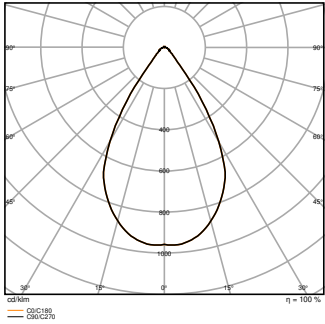
HB P 173W 840 70DEG IP66 PS



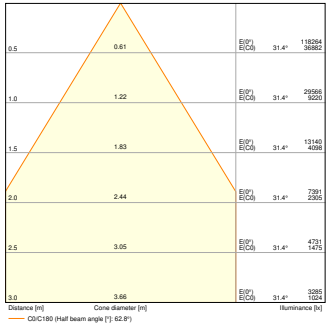
HB P 200W 840 70DEG IP66 PS
set to 173W



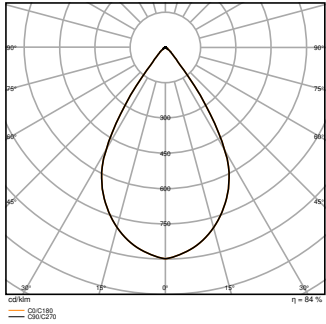
HB P 200W 840 70DEG IP66 PS -
REFRACTOR



HB P 200W 840 70DEG IP66 PS -
REFRACTOR



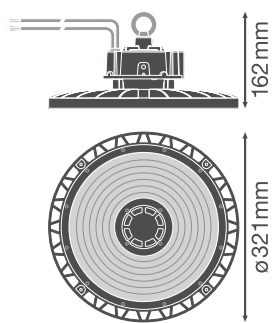
HB P 200W 840 70DEG IP66 PS -
REFLECTOR



HB P 200W 840 70DEG IP66 PS -
REFLECTOR

Dimensions & Weight

Diameter	321.00 mm
Height	162.00 mm
Product weight	3300.00 g
Cable length	1500 mm



HB P

Materials & Colors

Product color	Black
Housing color	Black
RAL Color (most similar)	RAL 9005
Body material	Aluminum
Cover material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-30...+50 °C
Temperature range at storage	-40...+80 °C
Type of connection	Cable, 3-pole
Type of protection	IP66
Protection class IK (shock resistance)	IK10
Dimmable	Yes
Mounting type	Surface/Suspended
Mounting location	Ceiling / Wall
Application environment	Indoor
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	120000 h ¹⁾
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Lifespan L80/B10 at 25 °C	100000 h ¹⁾
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	49000 h
Number of switching cycles	200000

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	825 mA
ECG - Output ripple current	< 5 %

Certificates & Standards

Standards	CE / UKCA / EAC / CB / ENEC / TÜV SÜD / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
EPD	LEDV-00032-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT
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Accessories Optional

Product image	Product name	EAN
	HB BRACKET 138	4058075844643
	HB ALU REFLECTOR 500	4058075844582
	HB PC REFRACTOR 500	4058075844629
	HB EL CONV BOX 30W 3H MT AT	4099854690624

Product image	Product name	EAN
	HB EL CONV BOX REMOTE CONTROL	4099854719523

EQUIPMENT / ACCESSORIES

- Mounting hook included
- Mounting brackets, reflectors and refractors available as separate accessory

DOWNLOAD DATA

Documents and certificates	Document name
 User instruction / safety instructions	HB ACC UI
 Legal information	HB P
 Legal information	Informationstext 18 Abs 4 ElektroG
 Legal information	Safety Insert G11205496
 Declarations of conformity	HIGHBAY P
 Declarations of conformity UKCA	HIGHBAY P
 Certificates	ENEC HIGHBAY P ON_OFF

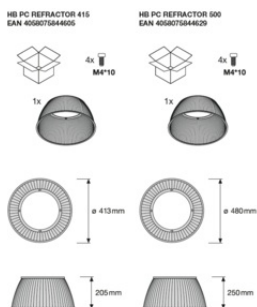
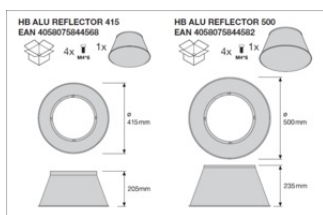
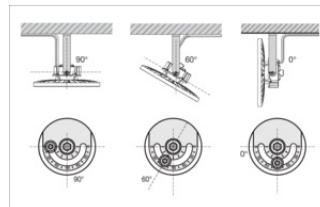
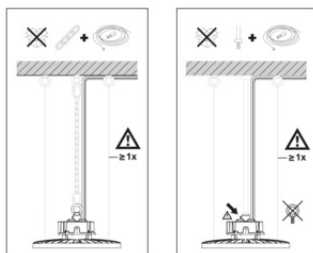
Photometric and lighting design files	Document name
 IES file (IES)	HB P 200W 840 70DEG IP66 PS
 IES file (IES)	HB P 200W 840 70DEG IP66 PS - REFLECTOR
 IES file (IES)	HB P 200W 840 70DEG IP66 PS - REFRACTOR
 LDT file (Eulumdat)	HB P 200W 840 70DEG IP66 PS

Photometric and lighting design files		Document name
	LDT file (Eulumdat)	HB P 200W 840 70DEG IP66 PS - REFRACTOR
	LDT file (Eulumdat)	HB P 200W 840 70DEG IP66 PS - REFLECTOR
	ULD file (DIALux)	HB P 200W 840 70DEG IP66 PS
	ROLF file (RELUX)	HB P 200W 840 70DEG IP66 PS
	UGR file (UGR table)	HB P 200W 840 70DEG IP66 PS
	UGR file (UGR table)	HB P 200W 840 70DEG IP66 PS - REFRACTOR
	UGR file (UGR table)	HB P 200W 840 70DEG IP66 PS - REFLECTOR
	Light distribution curve type cone	HB P 200W 840 70DEG IP66 PS
	Light distribution curve type cone	HB P 200W 840 70DEG IP66 PS - REFRACTOR
	Light distribution curve type cone	HB P 200W 840 70DEG IP66 PS - REFLECTOR
	Light distribution curve type polar	HB P 173W 840 70DEG IP66 PS
	Light distribution curve type polar	HB P 200W 840 70DEG IP66 PS - REFRACTOR
	Light distribution curve type polar	HB P 200W 840 70DEG IP66 PS - REFLECTOR
	Light distribution curve type polar	HB P 200W 840 70DEG IP66 PS set to 173W
CAD/BIM files		Document name
	BIM Revit 3D	High Bay G5
	CAD STEP 3D	HB G5 200
Tender texts		Document name
	Tender documents	HIGH BAY GEN 5 200W 840 70DEG IP66 PS-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075844322	Shipping box 1	368 mm x 368 mm x 170 mm	3953.00 g	23.02 dm³

Figure 1 shows four schematic diagrams of the test rig. (a) Top view showing a motor connected to a pulley, which is connected to a weight. (b) Side view showing the motor, pulley, and weight. (c) Front view showing the motor, pulley, and weight. (d) Detail view of the pulley and weight assembly, showing a pulley with a diameter of 100 mm and a weight of 100 N.



– For Guarantee see www.ledvance.com/guarantee

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