

PRODUCT DATASHEET

HB P 87W 840 70DEG IP65

HIGH BAY GEN 4 | High-bay luminaires up to 150 lm/W and attractive UGR



PERFOR-
MANCE
CLASS

Areas of application

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

Product benefits

- Improved UGR compared to previous generations, down to $UGR \leq 22$ in combination with reflector
- High luminous efficacy
- Energy savings of up to 64 % compared to conventional high bay luminaires
- 5 years guarantee
- Optimized weight and size due to compact design

Product features

- Different luminous flux and beam angle for mounting heights of ~ 6 m to 14 m in 4000 K or 6500 K

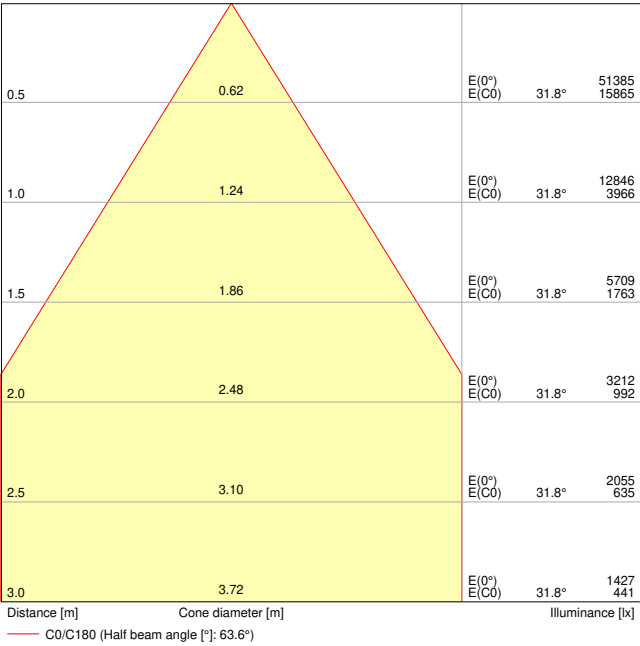
TECHNICAL DATA

Electrical data

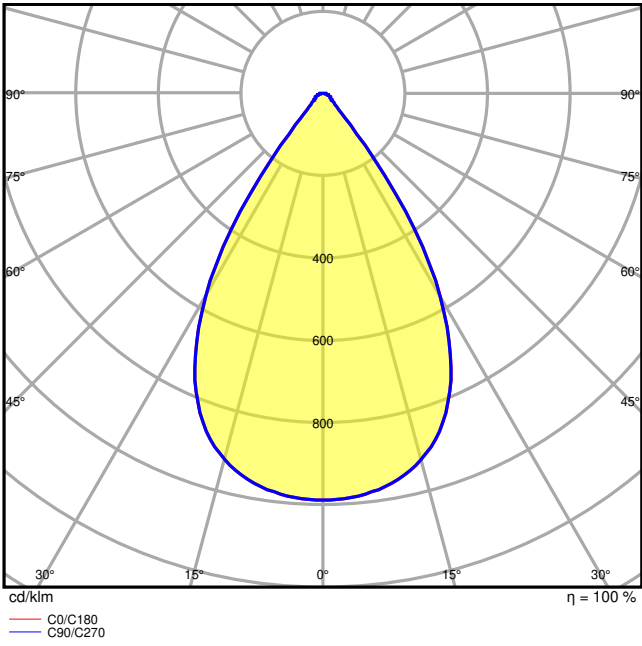
Nominal wattage	87.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	400 mA
Inrush current	42 A
Inrush current time T_{h50}	378 μ s
Max. number of luminaires per miniature circuit breaker B16	5
Max. number of luminaires per miniature circuit breaker C10	5
Max. number of luminaires per miniature circuit breaker C16	9
Power factor λ	≥ 0.95
Total harmonic distortion	$< 20 \%$
Protection class	I
Operating mode	Mains voltage

Photometrical data

Luminous flux	13000 lm
Luminous efficacy	150 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 5 sdcn
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	70 °
UGR	≤ 25



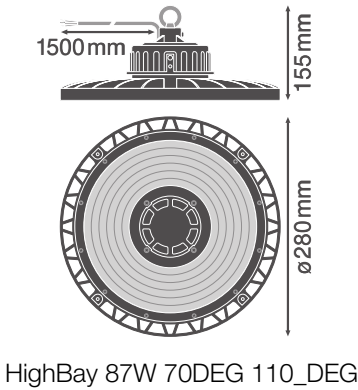
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Dimensions & Weight

Diameter	280.00 mm
Height	155.00 mm
Product weight	2264.00 g
Cable length	1500 mm



Materials & Colors

Product color	Black
Housing color	Black
RAL Color (most similar)	RAL 9017

Body material	Aluminum
Cover material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	850 °C

Application & Mounting

Ambient temperature range	-30...+50 °C
Temperature range at storage	-40...+70 °C
Type of connection	Cable, 3-pole
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Suspended/Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	80000 h ¹⁾
Lifespan L80/B10 at 25 °C	50000 h ¹⁾
Lifespan L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	35000 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

ECG - Output ripple current	< 10 %
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Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / EAC / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
EPD	LEDV-00006-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

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	UI HighBay Gen4
	User instruction / safety instructions	UI HighBay Gen4
	Legal information	LS Insert HB P GEN4
	Legal information	Legal insert HB P GEN 4 AND HB GEN 3
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	EC Declaration HB P
	Declarations of conformity UKCA	UKCA Declaration of Conformity HB P IP65
	Declarations of conformity UKCA	HB P IP65
	Certificates	ENEC Certificate HB P and HB Sensor P
	EPD	EPD EN HIGHBAY GEN 4
Photometric and lighting design files		Document name
	IES file (IES)	HB P 87W 840 70DEG IP65
	IES file (IES)	HB P 87W 840 70DEG IP65
	LDT file (Eulumdat)	HB P 87W 840 70DEG IP65
	LDT file (Eulumdat)	HB P 87W 840 70DEG IP65
	ULD file (DIALux)	HB P 87W 840 70DEG
	ROLF file (RELUX)	HB P 87W 840 70DEG IP65
	UGR file (UGR table)	HB P 87W 840 70DEG IP65
	Light distribution curve type cone	HB P 87W 840 70DEG IP65
	Light distribution curve type polar	HB P 87W 840 70DEG IP65

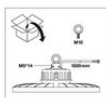
CAD/BIM files		Document name
	BIM Revit 3D	HB G4
	CAD STEP 3D	HB G4 87W
Tender texts		Document name
	Tender documents	HIGH BAY GEN 4 87W 840 70DEG IP65-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075692787	Shipping box 1	328 mm x 328 mm x 171 mm	2872.00 g	18.40 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



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.