

PRODUCT DATASHEET

HB COMP V 83W 840 110DEG IP65

HIGH BAY COMPACT GEN 1 | High-bay luminaires up to 120 lm/W



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

- Modern exclusive design
- Energy savings of up to 60 % compared to conventional high bay luminaires
- Optimized weight and size due to compact design

Product features

- Operating temperature: -20...45 °C
- Black aluminum housing, tempered glass cover
- Opal cover
- Type of protection: IP65
- Lifetime (L70): up to 50,000 h
- High luminous efficacy: up to 120 lm/W

TECHNICAL DATA

Electrical data

Nominal wattage	83.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	360 mA
Inrush current	9.5 A
Inrush current time T_{h50}	16.04 μ s
Max. number of luminaires per miniature circuit breaker B16	35
Max. number of luminaires per miniature circuit breaker C10	22
Max. number of luminaires per miniature circuit breaker C16	35
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

Photometrical data

Luminous flux	10000 lm
Luminous efficacy	120 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	≤ 5 sdc _m
Photobiological safety group acc. to EN62778	RG1
Beam angle	110 °

Materials & Colors

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Body material	Aluminum
Glow Wire Test according to IEC 60695-2-12	850 °C

Application & Mounting

Ambient temperature range	-20...+45 °C
Type of connection	Cable, 3-pole
Type of protection	IP65
Protection class IK (shock resistance)	IK06
Dimmable	No
Mounting type	Post top
Mounting location	Ceiling
Application environment	Indoor
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	50000 h ¹⁾
Lifespan L80/B10 at 25 °C	45000 h ¹⁾
Lifespan L80/B50 at 25 °C	45000 h
Lifespan L90/B10 at 25 °C	30000 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)

Certificates & Standards

Standards	CE / UKCA / CB / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00040-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

EQUIPMENT / ACCESSORIES

- Bracket available
- Reflector available

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI HighBay Compact V 110D

Documents and certificates		Document name
	Legal information	LS Insert HighBay Compact V 110D
	Legal information	Legal insert HB VAL AND HB COMP V
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	EC Declaration HB COMP V
	Declarations of conformity UKCA	HB COMP V 110DEG IP65
	EPD	EPD EN HIGH BAY COMPACT
Photometric and lighting design files		Document name
	IES file (IES)	HB COMP V 83W 840 110DEG IP65
	LDT file (Eulumdat)	HB COMP V 83W 840 110DEG IP65
	ULD file (DIALux)	HB COMP V 83W 840 110DEG
	ROLF file (RELUX)	HB COMP V 83W 840
	UGR file (UGR table)	HB COMP V 83W 840 110DEG IP65
	Light distribution curve type cone	HB COMP V 83W 840 110DEG IP65
	Light distribution curve type polar	HB COMP V 83W 840 110DEG IP65
CAD/BIM files		Document name
	BIM Revit 3D	High Bay Compact
	CAD STEP 3D	HB COMP 83W
Tender texts		Document name
	Tender documents	HIGH BAY COMPACT 83W 840 110DEG IP65-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
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Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075708174	Shipping box 1	75 mm x 215 mm x 225 mm	1005.00 g	3.63 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.