PRODUCT DATASHEET
HB FLEX DA P 240W 110 840 WT

HIGH BAY FLEX DALI | High-bay DALI-2 luminaires with up to 184 lm/W and attractive UGR



PERFOR-
MANCE
CLASS

Areas of application

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

Product benefits

- Flat housing design to minimize dust accumulation and easy cleaning
- Optimized weight and size due to compact design
- Ball-proof luminaire with increased physical robustness (according to DIN 18032-3 and DIN 57710-13)
- Energy savings of up to 70 % compared to conventional high bay luminaires

Product features

- DALI-2 driver with dimming range of 10…100 %
- Different luminous flux and beam angle for mounting heights
- High luminous efficacy: up to 184 lm/W
- Lifetime (L80/B10): up to 100,000 h (at 35 °C)
- Type of protection: up to IP66
- Impact resistance: IK10



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TECHNICAL DATA

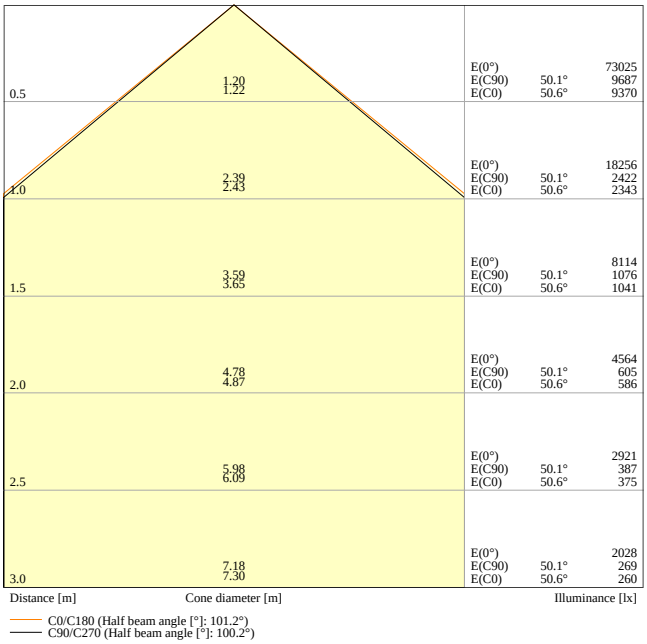
Electrical data

Nominal wattage	240.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	1050 mA
Inrush current	60 A
Inrush current time T_{h50}	140 µs
Max. number of luminaires per miniature circuit breaker B16	10
Max. number of luminaires per miniature circuit breaker C10	8
Max. number of luminaires per miniature circuit breaker C16	12
Power factor λ	> 0.90
Maximum total harmonic distortion	< 15 %
Protection class	I
Surge capability (L-N)	6 kV
Surge capability (L/N-Ground)	6 kV
Operating mode	Integrated LED driver
Dimming interface	DALI-2

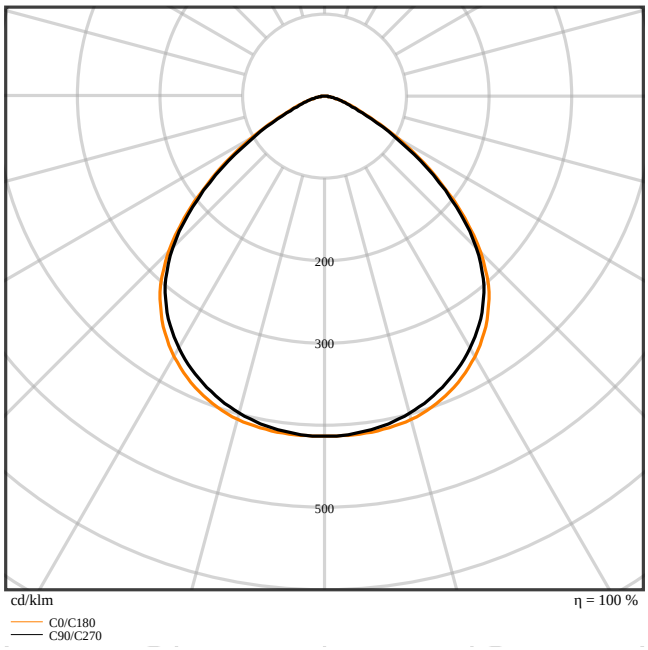
Photometrical data

Luminous flux	44160 lm
Luminous efficacy	184 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥80
Standard deviation of color matching	≤3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0,4
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	110 °

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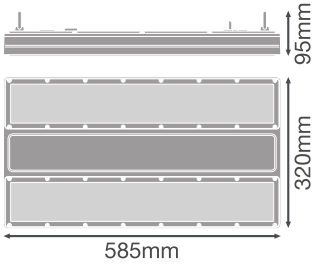
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Dimensions & Weight

Length	585.00 mm
Width	320.00 mm
Height	95.00 mm
Product weight	5800.00 g
Cable length	1500 mm



HB FLEX P 840 WT

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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
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	Cables
Type of protection	IP66
Protection class IK (shock resistance)	IK10
Dimmable	Yes
Type of dimming	DALI
Mounting type	Surface/Suspended
Mounting location	Ceiling / Wall
Application environment	Indoor
Mechanically adjustable	Yes
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	130000 h [1)]
Lifespan L80/B10 at 25 °C	110000 h [1)]
Lifespan L80/B50 at 25 °C	110000 h
Lifespan L90/B10 at 25 °C	67000 h [1)]
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	1000 mA
Output ripple current (100 Hz)	< 5 %

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Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None

Certificates & Standards

Standards	CE / UKCA / EAC / CB / ENEC / Dmark / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	Yes
EPD	LEDV-00069-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Accessories Optional

Product image	Product name	EAN
	HB FLEX BRACKET CHAIN	4099854612787
	HB FLEX BRACKET SURFACE	4099854612800

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508

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Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925

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Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6	4099854748714
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING	4058075857537
	DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM	4058075843905
	RELAY DALI-2 RAIL MOUNTING	4099854709159
	RELAY DALI-2 CEILING MOUNTING	4099854709135
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

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EQUIPMENT / ACCESSORIES

- Mounting hook included
- Mounting brackets for surface and chain mounting available as separate accessory

Safety advice

- All electrical connections must be made by a qualified person.
- Terminal block not included. Installation must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	HB FLEX 840
PDF	Legal information	Safety Insert G11205496
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal Insert G11198263
PDF	Legal information	LISO insert G11244206
PDF	Declarations of conformity	HB FLEX LUM
PDF	Declarations of conformity UKCA	HB FLEX LUM
PDF	Certificates	ENEC Certificate
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EPD	EPD_EN_HIGH BAY FLEX (DALI)
PDF	EPD	EPD_FR_HIGH BAY FLEX (DALI)

	Photometric and lighting design files	Document name
IES	IES file (IES)	HB FLEX DA P 240W 110 840 WT

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	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	HB FLEX DA P 240W 110 840 WT
	UGR file (UGR table)	HB FLEX DA P 240W 110 840 WT
	Light distribution curve type cone	HB FLEX DA P 240W 110 840 WT
	Light distribution curve type polar	HB FLEX DA P 240W 110 840 WT

	CAD/BIM files	Document name
	BIM Revit 3D	Highbay Flex
	CAD STEP 3D	HB FLEX

	Tender texts	Document name
	Tender documents	HIGH BAY FLEX DALI 240W 110 840 WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854538841	Shipping box 1	647 mm x 402 mm x 140 mm	6906.00 g	36.41 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

DISCLAIMER

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

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