PRODUCT DATASHEET
LB FLEX 1200 DALI P 42W 840 N

LOW BAY FLEX 1200 DALI | Low-bay luminaires with attractive linear design, up to 155 lm/W with DALI-2 technology



PERFOR-MANCE CLASS

Areas of application

- Replacement for luminaires with mercury vapor or metal halide lamps
- Warehouses
- Logistics halls
- Industrial and storage facilities
- Discounters, supermarkets
- Sports halls
- Indoor sports facilities

Product benefits

- High compatibility thanks to DALI-2 certification
- Economical thanks to high luminous efficacy up to 155 lm/W
- Easy and quick installation thanks to toolless connector box with 5- and 7-pole terminals
- Modern and robust design
- 5 years guarantee

Product features

- DALI-2 certified
- Different luminous flux and beam angle for mounting heights of ~ 4 m to ~10 m in 4000 K
- Through-wiring cable already installed
- Long Lifetime (L80/B10): up to 100,000 h
- High color consistency: ≤ 3 SDCM

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TECHNICAL DATA

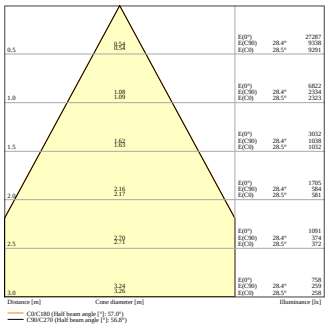
Electrical data

Nominal wattage	42 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	190 mA
Inrush current	22.4 A
Inrush current time T_{h50}	176 µs
Max. number of luminaires per miniature circuit breaker B16	16
Max. number of luminaires per miniature circuit breaker C10	16
Max. number of luminaires per miniature circuit breaker C16	16
Power factor λ	≥0.90
Maximum total harmonic distortion	≤ 20 %
Protection class	I
Operating mode	Electronic control gear (ECG)
Dimming interface	DALI-2 / IoT

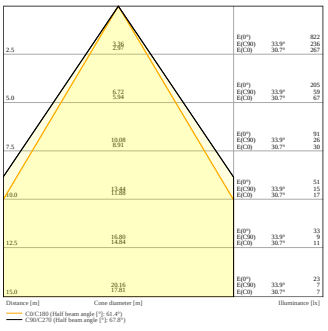
Photometrical data

Luminous flux	6510 lm
Luminous efficacy	155 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
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	60 °

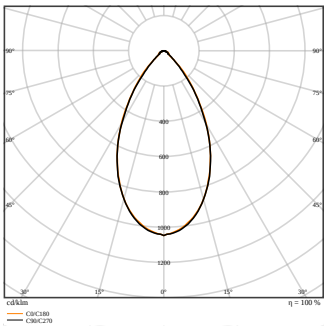
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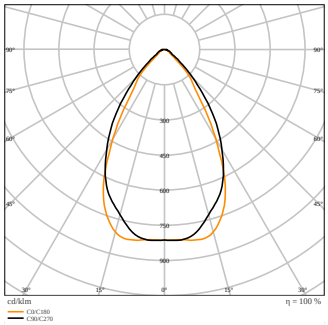
LB FLEX 1200 DALI P 42W 840 N



LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER



LB FLEX 1200 DALI P 42W 840 N

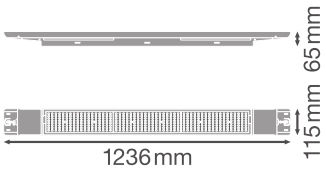


LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER

Dimensions & Weight

Length	1236.00 mm
Width	115.00 mm
Height	65.00 mm
Product weight	2900.00 g

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LOW BAY FLEX 1200

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Steel
Cover material	Polycarbonate (PC)
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	-25…+50 °C
Temperature range at storage	-20…+80 °C
Type of connection	SCREWLESS TERMINAL, 7-POLE (L1, L2, L3, N, PE, DA, DA)
Type of protection	IP23
Protection class IK (shock resistance)	IK08
Dimmable	Yes
Type of dimming	DALI-2
IoT ready	Support of DALI data type PART 251, 252, 253 [1)]
Mounting type	Surface/Suspended
Mounting location	Ceiling
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes

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Replaceable light source	No

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

Lifespan

Lifespan L70/B50 at 25 °C	100000 h [1)]
Lifespan L80/B10 at 25 °C	100000 h [1)]
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	83000 h [1)]
Number of switching cycles	50000

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	370 mA
Output ripple current (100 Hz)	< 10 %
Recommended control gear	TRIDONIC/LCA 50W 100-400mA one4all lp PRE

Emergency lighting

Wattage in emergency operation mode	7.5 W
Luminous flux in emergency operation mode	999 lm

Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / EAC / UKCA
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No

Additional product data

Added function	VIVARES

Components for light control

Components Light Control

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

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

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Product image	Product name	EAN
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	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

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Product image	Product name	EAN
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

EQUIPMENT / ACCESSORIES

– Suspension kit, ball-proof cover and angulation mounting kit available as separate accessory

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	UI Lowbay Flex
PDF	Legal information	Legal Insert LB FLEX DALI
PDF	Legal information	LS Insert LB FLEX DALI
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LB FLEX
PDF	Declarations of conformity UKCA	LB FLEX
PDF	EU Data Act	DALI LED Driver and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	LB FLEX 1200 DALI P 42W 840 N
IES	IES file (IES)	LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER
LDT	LDT file (Eulumdat)	LB FLEX 1200 DALI P 42W 840 N
LDT	LDT file (Eulumdat)	LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER
ULD	ULD file (DIALux)	LB FLEX 1200 P 42W 840 N

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	Photometric and lighting design files	Document name
	ROLF file (RELUX)	LB FLEX 1200 DALI P 42W 840 N
	UGR file (UGR table)	LB FLEX 1200 DALI P 42W 840 N
	UGR file (UGR table)	LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER
	Light distribution curve type cone	LB FLEX 1200 DALI P 42W 840 N
	Light distribution curve type cone	LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER
	Light distribution curve type polar	LB FLEX 1200 DALI P 42W 840 N
	Light distribution curve type polar	LB FLEX BP 1200 DALI P 42W 840 N WITH BP COVER

	CAD/BIM files	Document name
	BIM Revit 3D	LOW BAY FLEX
	CAD STEP 3D	LB FLEX 1200

	Tender texts	Document name
	Tender documents	LOW BAY FLEX 1200 DALI DALI P 42W 840 N-EN

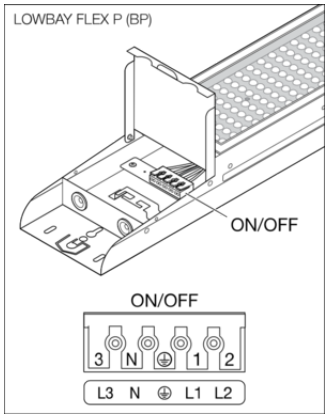
LOGISTICAL DATA

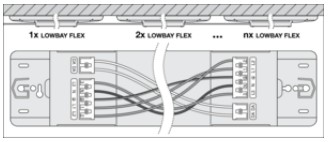
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854164132	Folding box 1	106 mm x 1,282 mm x 154 mm	3288.00 g	20.93 dm^3
4099854164149	Shipping box 3	1,312 mm x 488 mm x 143 mm	11940.00 g	91.56 dm^3

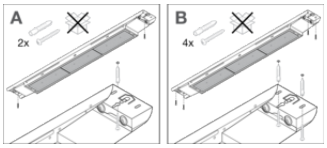
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

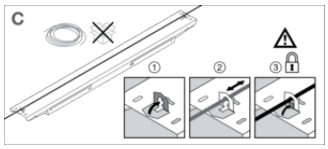
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ADDITIONAL CATALOG INFORMATION









References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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