PRODUCT DATASHEET
BAT CBO 1500 V 48W ML 84065 WT

BATTEN COMBO | Surface luminaire with high luminous efficacy up to 150 lm/W and Multi Select function



VALUE CLASS

Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Corridors, stairwells, basements
- Industrial and storage facilities
- Public areas
- Indoor applications

Product benefits

- Highly versatile due to selectable CCT and lumen steps (Multi Select) on the driver
- Plug & Upgrade concept for easy conversion to sensor or emergency luminaire
- Replacement of conventional T8 luminaires with up to 9,750 lm
- Robust structure with IK08

Product features

- High luminous efficacy: up to 153 lm/W
- Luminous flux: up to 9,750 lm
- Impact resistance: IK08
- Push wire terminal for tool-free connection
- Lifetime (L70/B50): up to 54,000 h (at 25 °C)
- Ambient temperature in operation: -20…+40 °C
- Through wiring possible



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TECHNICAL DATA

Electrical data

Nominal wattage	48 W / 24 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	220mA / 120 mA
Inrush current	16.08 A
Inrush current time T_{h50}	118 µs
Max. number of luminaires per miniature circuit breaker B16	41
Max. number of luminaires per miniature circuit breaker C10	31
Max. number of luminaires per miniature circuit breaker C16	49
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

Photometrical data

Luminous flux	7200 lm / 3670 lm
Luminous efficacy	150 lm/W / 153 lm/W
Color temperature	4000 K / 6500 K
Light color (designation)	Cool White / Cool Daylight
Color rendering index Ra	≥80
Standard deviation of color matching	< 5 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	110 °

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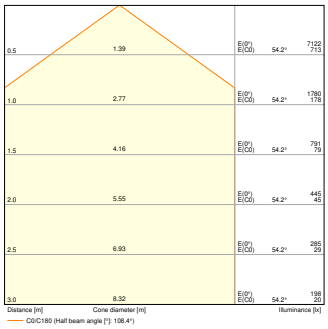
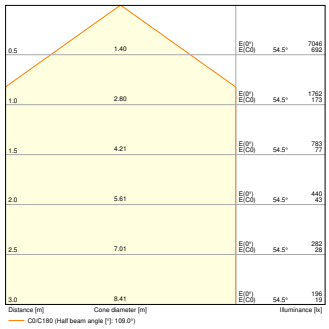


BATTEN CBO 1200 V 36W MS 840 WT



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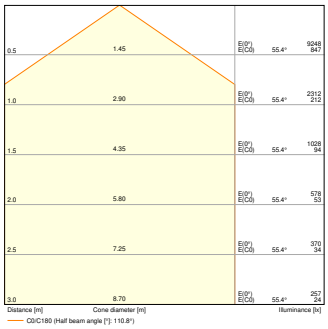
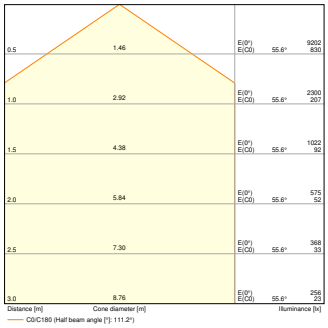


BATTEN CBO 1500 V 48W MS 840 WT



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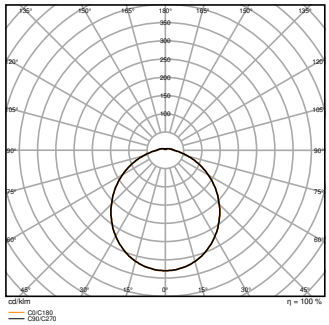

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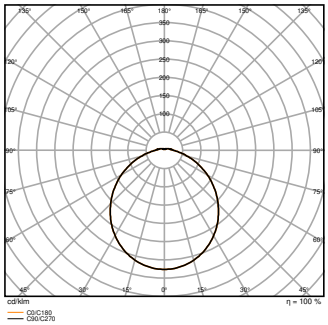

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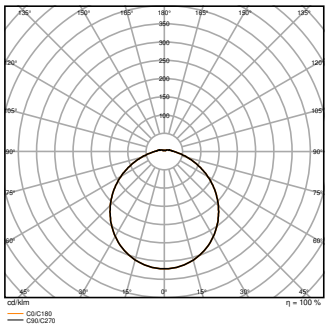

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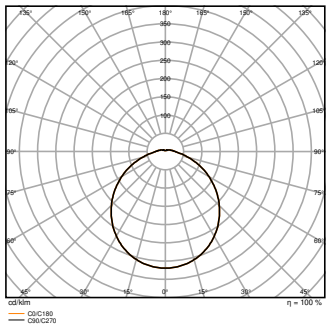

BATTEN CBO 1500 V 48W MS 865 WT

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
24 W	4000 K	3670 lm	153 lm/W
24 W	6500 K	3670 lm	153 lm/W
48 W	4000 K	7200 lm	150 lm/W
48 W	6500 K	7200 lm	150 lm/W

Dimensions & Weight

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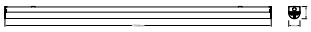
Length	1518.80 mm
Width	64.00 mm
Height	70.00 mm
Product weight	1540.00 g



BATTEN CBO 1500 V 48W MS 840 WT

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Polycarbonate (PC)
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	-20…+40 °C
Temperature range at storage	-20…+80 °C
Type of connection	Push-in
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Ceiling
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes

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Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	54000 h [1)]
Lifespan L80/B10 at 25 °C	42000 h [1)]
Lifespan L80/B50 at 25 °C	44000 h
Lifespan L90/B10 at 25 °C	32000 h
Number of switching cycles	25000

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	< 5 %

Emergency lighting

Type of Emergency Lighting (EL)	Optional EL unit (battery and controller) for decentral operation available separately
Wattage in emergency operation mode	2 W
Luminous flux in emergency operation mode	300 lm

Certificates & Standards

Standards	CE / CB / ERP / UKCA / EAC / EPD
Ball shot safe	No
EPD	LEDV-00063-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT

EQUIPMENT / ACCESSORIES

- Plug & Upgrade high frequency sensor and emergency kit separately available
- DP BAT CBO EL KIT only compatible with 1200, 1500 and 1800 versions (not with 600 version)
- Mounting screws and dowels included

Upgrade and replacement components

Components Sensor

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Product image	Product name	EAN
	DP BATTEN CBO SENSOR LS PD 8 MW INT	4099854521461

Components EL Battery

Product image	Product name	EAN
	DP BATTEN CBO EL BAT 6.4V 1.8AH 2WH	4099854521515
	DP BATTEN CBO EL CG 200V 3H MT AT	4099854521430

Safety advice

- Values of type of protection, impact resistance and ambient temperature range may differ depending on the installation of the components.
- All electrical connections 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.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	BATTEN CBO
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11205497
PDF	Legal information	Legal Insert_G11234946
PDF	Legal information	LISO insert G111256082 Batten Combo
PDF	Legal information	G11263206 EM Insert

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	Documents and certificates	Document name
PDF	Declarations of conformity	BATTEN CBO
PDF	Declarations of conformity UKCA	BATTEN CBO
PDF	EPD	ENVIRONMENTAL PRODUCT DECLARATION BATTEN COMBO SENSOR

	Photometric and lighting design files	Document name
	IES file (IES)	BATTEN CBO 1200 V 36W MS 840 WT
	IES file (IES)	BATTEN CBO 1200 V 36W MS 865 WT
	IES file (IES)	BATTEN CBO 1500 V 48W MS 840 WT
	IES file (IES)	BATTEN CBO 1500 V 48W MS 865 WT
	LDT file (Eulumdat)	BATTEN CBO 1200 V 36W MS 840 WT
	LDT file (Eulumdat)	BATTEN CBO 1200 V 36W MS 865 WT
	LDT file (Eulumdat)	BATTEN CBO 1500 V 48W MS 840 WT
	LDT file (Eulumdat)	BATTEN CBO 1500 V 48W MS 865 WT
	UGR file (UGR table)	BATTEN CBO 1200 V 36W MS 840 WT
	UGR file (UGR table)	BATTEN CBO 1200 V 36W MS 865 WT
	UGR file (UGR table)	BATTEN CBO 1500 V 48W MS 840 WT
	UGR file (UGR table)	BATTEN CBO 1500 V 48W MS 865 WT
	Light distribution curve type cone	BATTEN CBO 1200 V 36W MS 840 WT
	Light distribution curve type cone	BATTEN CBO 1200 V 36W MS 865 WT
	Light distribution curve type cone	BATTEN CBO 1500 V 48W MS 840 WT
	Light distribution curve type cone	BATTEN CBO 1500 V 48W MS 865 WT
	Light distribution curve type polar	BATTEN CBO 1200 V 36W MS 840 WT

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	Photometric and lighting design files	Document name
	Light distribution curve type polar	BATTEN CBO 1200 V 36W MS 865 WT
	Light distribution curve type polar	BATTEN CBO 1500 V 48W MS 840 WT
	Light distribution curve type polar	BATTEN CBO 1500 V 48W MS 865 WT

	CAD/BIM files	Document name
	BIM Revit 3D	Batten-Combo
	CAD STEP 3D	BAT CBO 1200

	Tender texts	Document name
	Tender documents	BATTEN COMBO 1500 V 48W ML 84065 WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854529016	Folding box 1	72 mm x 1,532 mm x 77 mm	1760.00 g	8.49 dm^3
4099854529023	Shipping box 6	1,552 mm x 232 mm x 174 mm	11360.00 g	62.65 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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