

# PRODUCT DATASHEET

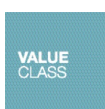
## BAT CBO 1500 V 48W ML 84065 WT

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



### 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 power steps (Multi Color / Multi Lumen) 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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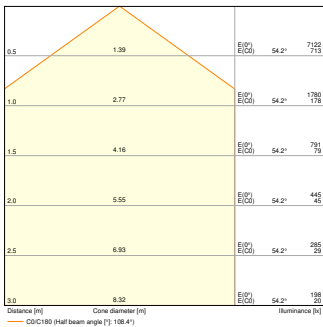
## TECHNICAL DATA

### Electrical data

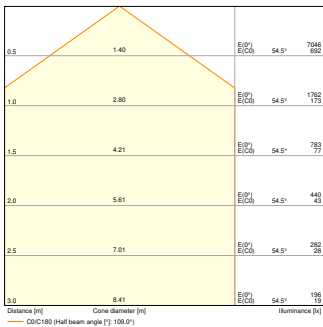
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 48 W / 24 W           |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 220mA / 120 mA        |
| Inrush current                                              | 16.08 A               |
| Inrush current time $T_{h50}$                               | 118 $\mu$ s           |
| 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 $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

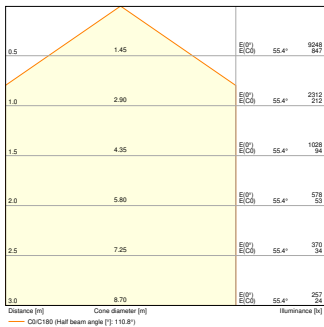
|                                              |                            |
|----------------------------------------------|----------------------------|
| Luminous flux                                | 7200 lm / 3670 lm          |
| Luminous efficacy                            | 150 lm/W / 153 lm/W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



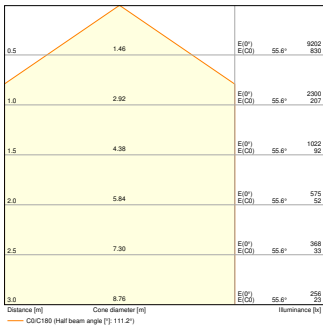
BATTEN CBO 1200 V 36W MS 840  
WT



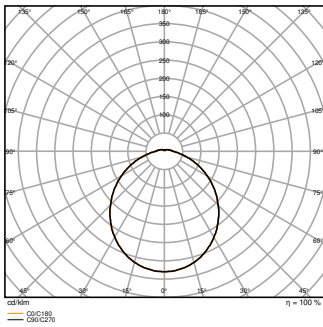
BATTEN CBO 1200 V 36W MS 865  
WT



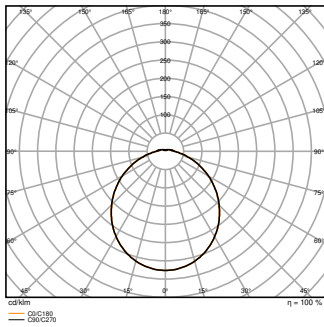
BATTEN CBO 1500 V 48W MS 840  
WT



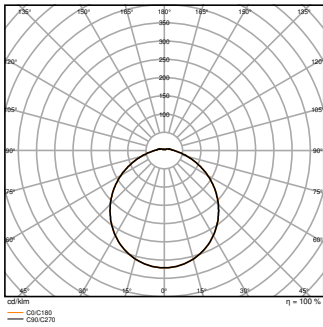
BATTEN CBO 1500 V 48W MS 865  
WT



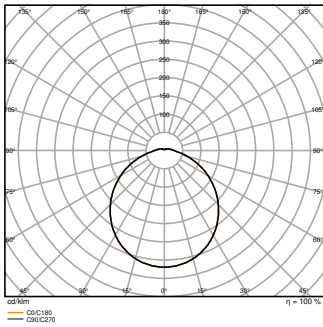
BATTEN CBO 1200 V 36W MS 840  
WT



BATTEN CBO 1200 V 36W MS 865  
WT



BATTEN CBO 1500 V 48W MS 840  
WT



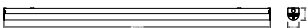
BATTEN CBO 1500 V 48W MS 865  
WT

Adjustable attributes

|                  |                               |
|------------------|-------------------------------|
| upper attributes | Array / Array / Array / Array |
|------------------|-------------------------------|

Dimensions & Weight

|                |            |
|----------------|------------|
| 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         |
| Adjustable                             | No             |
| With light source                      | Yes            |
| Replaceable light source               | No             |

Lifespan

|                           |                       |
|---------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C | 54000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C | 42000 h <sup>1)</sup> |

|                            |         |
|----------------------------|---------|
| 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 |
|---------------------------------|----------------------------------------------------------------------------------------|

### Certificates & Standards

|                |                            |
|----------------|----------------------------|
| Standards      | CE / CB / ERP / UKCA / EAC |
| Ball shot safe | No                         |

### Additional product data

|                |              |
|----------------|--------------|
| Added function | MULTI SELECT |
|----------------|--------------|

### Accessories Optional

| Product image                                                                       | Product name                        | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------|
|  | DP BATTEN CBO SENSOR LS PD 8 MW INT | 4099854521461 |
|  | DP BATTEN CBO EL CG 200V 3H MT AT   | 4099854521430 |
|  | DP BATTEN CBO EL BAT 6.4V 1.8AH 2WH | 4099854521515 |

### 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

## 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                       |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|
|    | User instruction / safety instructions | BATTEN CBO                          |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG  |
|    | Legal information                      | Safety Insert G11205497             |
|    | Legal information                      | Legal Insert DP CBO AND BATTEN CBO  |
|   | Legal information                      | LISO insert G111256082 Batten Combo |
|  | Declarations of conformity             | BATTEN CBO                          |
|  | Declarations of conformity UKCA        | BATTEN CBO                          |
| 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     |

| Photometric and lighting design files                                               |                                     | Document name                          |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------|
|    | 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        |
|  | 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<br>1             | 72 mm x 1,532 mm x 77 mm             | 1760.00 g    | 8.49 dm³  |
| 4099854529023 | Shipping box<br>6            | 1,552 mm x 232 mm x 174 mm           | 11360.00 g   | 62.65 dm³ |

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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### References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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