

# PRODUCT DATASHEET

## DP CBO 1800 V 60W ML 84065 IP66 GY

DAMP PROOF COMBO | Damp-proof luminaires with IK10 and IP66 protection and Multi Select function

### Areas of application

- Industrial and storage facilities
- Car parks and underpasses
- Garages
- Workshops, assembly lines



### 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
- Suitable for use in dusty and damp locations thanks to high IP rating
- Suitable for use in public areas thanks to high IK rating

### Product features

- High luminous efficacy: up to 153 lm/W
- Type of protection: IP66
- Impact resistance: IK10
- Luminous flux: up to 9,000 lm
- Push wire terminal for tool-free connection
- Lifetime (L70/B50) up to 50,000 h (at 25 °C)
- Ambient temperature in operation: -20...+40 °C
- Through wiring possible



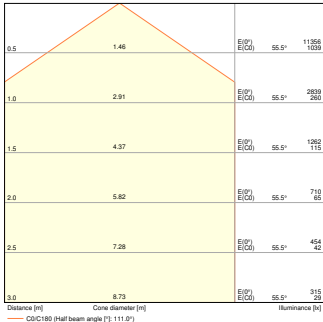
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**TECHNICAL DATA****Electrical data**

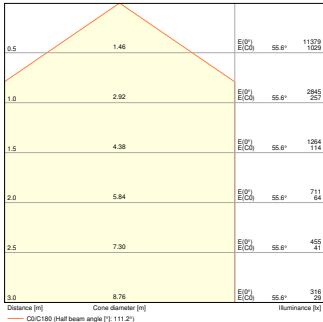
|                                                             |                                |
|-------------------------------------------------------------|--------------------------------|
| Nominal wattage                                             | 60 W / 50 W / 40 W / 30 W      |
| Nominal voltage                                             | 220...240 V                    |
| Mains frequency                                             | 50...60 Hz                     |
| Nominal current                                             | 260mA / 222mA / 178mA / 141 mA |
| Inrush current                                              | 20 A                           |
| Inrush current time $T_{h50}$                               | 118 $\mu$ s                    |
| Max. number of luminaires per miniature circuit breaker B16 | 33                             |
| Max. number of luminaires per miniature circuit breaker C10 | 25                             |
| Max. number of luminaires per miniature circuit breaker C16 | 40                             |
| Power factor $\lambda$                                      | > 0.90                         |
| Total harmonic distortion                                   | < 20 %                         |
| Protection class                                            | I                              |
| Operating mode                                              | Integrated LED driver          |

**Photometrical data**

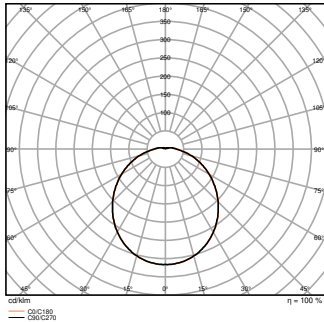
|                                              |                                           |
|----------------------------------------------|-------------------------------------------|
| Luminous flux                                | 9000 lm / 7550 lm / 6080 lm / 4590 lm     |
| Luminous efficacy                            | 150 lm/W / 151 lm/W / 152 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 °                                     |



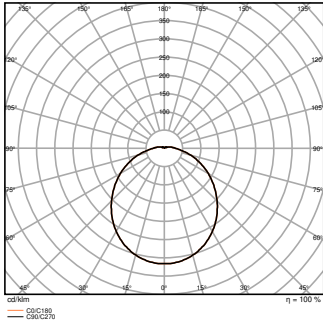
DP CBO 1800 V 60W MS 840 IP66  
GY



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Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 60 W            | 4000 K            | 9000 lm       | 150 lm/W          |
| 60 W            | 6500 K            | 9000 lm       | 150 lm/W          |
| 50 W            | 4000 K            | 7550 lm       | 151 lm/W          |
| 50 W            | 6500 K            | 7550 lm       | 151 lm/W          |
| 40 W            | 4000 K            | 6080 lm       | 152 lm/W          |
| 40 W            | 6500 K            | 6080 lm       | 152 lm/W          |
| 30 W            | 4000 K            | 4590 lm       | 153 lm/W          |
| 30 W            | 6500 K            | 4590 lm       | 153 lm/W          |

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1870.00 mm |
| Width          | 97.00 mm   |
| Height         | 78.00 mm   |
| Product weight | 2120.00 g  |



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Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | Gray               |
| Housing color                              | Gray               |
| RAL Color (most similar)                   | RAL 830-1          |
| 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            |
| Type of protection                     | IP66               |
| Protection class IK (shock resistance) | IK10 <sup>1)</sup> |
| Dimmable                               | No                 |
| Mounting type                          | Suspended/Surface  |
| Mounting location                      | Ceiling / Wall     |
| Application environment                | Indoor             |
| With light source                      | Yes                |
| Replaceable light source               | No                 |

<sup>1)</sup> IK10 rating applies only when all clips are fully secured with screws

Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 60000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 36000 h               |
| Lifespan L90/B10 at 25 °C  | 25000 h               |
| Number of switching cycles | 25000                 |

<sup>1)</sup> 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 | 190mA / 250mA / 310mA / 360 mA |
|----------------|--------------------------------|

### 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
- 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.

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                               |
|------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------|
|    | User instruction / safety instructions | User Instruction G11256108 Damp proof Combo |
|    | 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 G11256083 DAMP PROOF COMBO      |
|   | Declarations of conformity             | DP CBO                                      |
|  | Declarations of conformity UKCA        | DP CBO                                      |
| Photometric and lighting design files                                              |                                        | Document name                               |
|  | IES file (IES)                         | DP CBO 1800 V 60W MS 840 IP66 GY            |
|  | IES file (IES)                         | DP CBO 1800 V 60W MS 865 IP66 GY            |
|  | LDT file (Eulumdat)                    | DP CBO 1800 V 60W MS 840 IP66 GY            |
|  | LDT file (Eulumdat)                    | DP CBO 1800 V 60W MS 865 IP66 GY            |
|  | UGR file (UGR table)                   | DP CBO 1800 V 60W MS 840 IP66 GY            |
|  | UGR file (UGR table)                   | DP CBO 1800 V 60W MS 865 IP66 GY            |
|  | Light distribution curve type cone     | DP CBO 1800 V 60W MS 840 IP66 GY            |
|  | Light distribution curve type cone     | DP CBO 1800 V 60W MS 865 IP66 GY            |
|  | Light distribution curve type polar    | DP CBO 1800 V 60W MS 840 IP66 GY            |

| Photometric and lighting design files                                            |                                     | Document name                    |
|----------------------------------------------------------------------------------|-------------------------------------|----------------------------------|
|  | Light distribution curve type polar | DP CBO 1800 V 60W MS 865 IP66 GY |
| CAD/BIM files                                                                    |                                     | Document name                    |
|  | BIM Revit 3D                        | DP COMBO                         |
|  | CAD STEP 3D                         | DP COMBO 1800                    |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854521416 | Folding box<br>1             | 1,878 mm x 103 mm x 86 mm            | 2515.00 g    | 16.64 dm <sup>3</sup> |
| 4099854521423 | Shipping box<br>4            | 1,896 mm x 221 mm x 186 mm           | 11210.00 g   | 77.94 dm <sup>3</sup> |

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](http://www.ledvance.com/guarantee)

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