

# PRODUCT DATASHEET

## FL PFM DA ASYM 45X140 100W 4000K BK

FLOODLIGHT PERFORMANCE DALI ASYM 45x140 | DALI 2.0 based floodlight with very wide beam, asymmetric light distribution for area lighting



### Areas of application

- Direct replacement for luminaires using HID lamps
- Outdoor use (IP66)
- Parking
- Public areas
- Industry
- Sports facilities
- Parking lots, industrial roads
- D-sign according to EN 60598-2-24 for fire-risk commercial unit, e.g. by accumulation of dust

### Product benefits

- Energy savings of up to 90 % compared to halogen lamp floodlights
- Energy savings of up to 45 % compared to luminaires that use conventional discharge lamps
- Bright, robust and durable
- Homogeneous luminance distribution and reduced glare
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- Key hole to ensure ease of installation
- 5 years guarantee

### Product features

- DALI 2.0 interface for light management system integration
- High luminous efficacy: up to 140 lm/W
- Asymmetric light distribution for area lighting
- Angled (45°) mounting bracket and up to 180° tilting
- High surge protection: up to 10 kV (L/N-PE), 6 kV (L-N)



- Integrated breather for preventing condensation inside the luminaire
- Connection via 2 m cable, wiring required
- Type of protection: IP66
- Impact resistance: IK08
- Ambient temperature in operation: -30...+50 °C

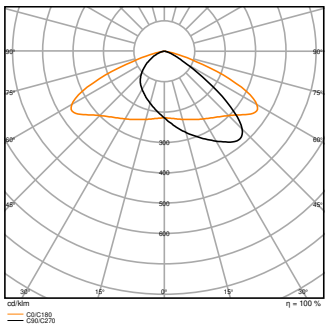
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**TECHNICAL DATA****Electrical data**

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 100.00 W              |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 490.000 mA            |
| Inrush current                                              | 180 A                 |
| Inrush current time $T_{h50}$                               | 150 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 5                     |
| Max. number of luminaires per miniature circuit breaker C10 | 5                     |
| Max. number of luminaires per miniature circuit breaker C16 | 8                     |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 10 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | DALI-2                |

**Photometrical data**

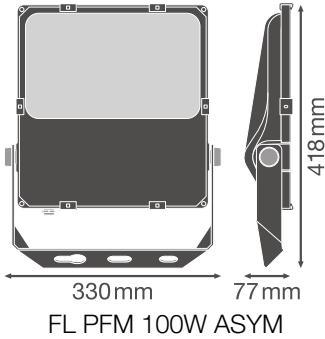
|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 12800 lm                  |
| Luminous efficacy                            | 128 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | > 80                      |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Low flicker                                  | Yes                       |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Photobiological safety group acc. to EN62471 | RG1                       |
| Beam angle                                   | 45 ° x 140 °              |



FL PFM DA 100W 4000K ASYM  
45X140 BK

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 418.00 mm |
| Width          | 330.00 mm |
| Height         | 77.00 mm  |
| Product weight | 4300.00 g |
| Cable length   | 2000 mm   |



Materials & Colors

|                                            |          |
|--------------------------------------------|----------|
| Product color                              | Black    |
| Housing color                              | Black    |
| Body material                              | Aluminum |
| Cover material                             | Glass    |
| Light emitting surface material            | Glass    |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C   |

|                 |        |
|-----------------|--------|
| Mercury content | 0.0 mg |
|-----------------|--------|

### Application & Mounting

|                                        |                               |
|----------------------------------------|-------------------------------|
| Ambient temperature range              | -30...+50 °C                  |
| Temperature range at storage           | -40...+70 °C                  |
| Type of connection                     | Cable, 5-pole                 |
| Type of protection                     | IP66                          |
| Protection class IK (shock resistance) | IK08                          |
| Dimmable                               | Yes                           |
| Type of dimming                        | DALI                          |
| Mounting type                          | Surface                       |
| Mounting location                      | Wall / Pole / Floor / Ceiling |
| Application environment                | Outdoor                       |
| Adjustable                             | Yes                           |
| With light source                      | Yes                           |
| Replaceable light source               | No                            |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 70000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 70000 h                |
| Lifespan L90/B10 at 25 °C  | 30000 h                |
| Number of switching cycles | 100000                 |

<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

|                             |        |
|-----------------------------|--------|
| ECG - Output ripple current | < 10 % |
|-----------------------------|--------|

### Certificates & Standards

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | Yes                                   |
| Ball shot safe                                       | No                                    |
| Replaceable light source (EPREL)                     | Not replaceable                       |

### DOWNLOAD DATA

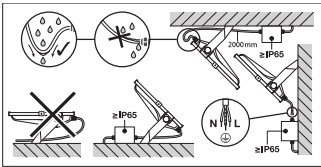
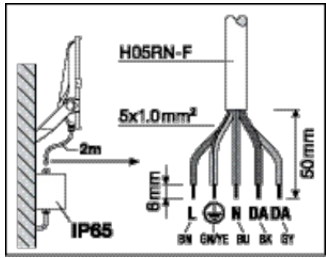
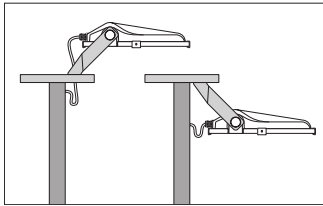
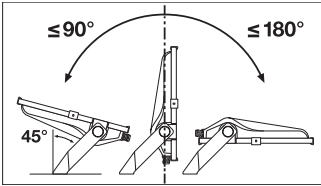
| Documents and certificates                                                         |                                        | Document name                                            |
|------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|
|    | User instruction / safety instructions | FLOODLIGHT PERFORMANCE DALI                              |
|    | Legal information                      | LSI Floodlight PFM DALI                                  |
|    | Legal information                      | Legal Insert FL PFM DA                                   |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG                       |
|    | Declarations of conformity             | CE Declaration of Conformity FLOODLIGHT PFM DA BK        |
|    | Declarations of conformity UKCA        | UKCA Declaration of Conformity FLOODLIGHT PFM DA BK      |
|    | Declarations of conformity UKCA        | FL PFM DA BK                                             |
|    | Certificates                           | FL PFM DA                                                |
| Photometric and lighting design files                                              |                                        | Document name                                            |
|  | IES file (IES)                         | FL PFM DA 100W 4000K ASYM 45X140 BK                      |
|  | LDT file (Eulumdat)                    | FL PFM DA 100W 4000K ASYM 45X140 BK                      |
|  | ULD file (DIALux)                      | FL PFM DA 100W 4000K ASYM                                |
|  | ROLF file (RELUX)                      | FL PFM DA 100W 4000K ASYM                                |
|  | Light distribution curve type polar    | FL PFM DA 100W 4000K ASYM 45X140 BK                      |
| CAD/BIM files                                                                      |                                        | Document name                                            |
|  | BIM Revit 3D                           | FL PFM                                                   |
|  | CAD STEP 3D                            | FL PFM 100W                                              |
| Tender texts                                                                       |                                        | Document name                                            |
|  | Tender documents                       | FLOODLIGHT PERFORMANCE DALI ASYM 45x140 100W 4000K BK-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075760653 | Shipping box<br>1            | 474 mm x 120 mm x 368 mm             | 4325.00 g    | 20.93 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.

ADDITIONAL CATALOG INFORMATION



References / Links

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

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