

# PRODUCT DATASHEET

## FL AREA ASYM 48x92 105 W 4000 K BK

FLOODLIGHT AREA GEN 1 | Floodlight with lens based light distribution up to 140 lm/W



### Areas of application

- Direct replacement for luminaires using HID lamps
- Outdoor use (IP65)
- Public areas
- Industry
- Sports facilities
- Parking

### 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
- High light uniformity
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt
- 5 years guarantee

### Product features

- High luminous efficacy: up to 140 lm/W
- Asymmetric light distribution for various application areas
- Integrated wide voltage driver, suitable for 100 - 277 V AC
- Angled (30 °) mounting bracket and up to 210 ° tilting
- Type of protection: IP65
- Impact resistance: IK08
- Ambient temperature in operation: -30...+50 °C
- High surge protection: up to 6 kV (L/N-PE), 4 kV (L-N)



- Integrated breather for preventing condensation inside the luminaire
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 mm<sup>2</sup> single wires

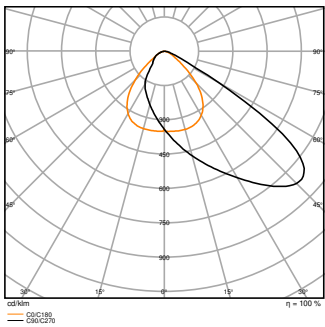
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**TECHNICAL DATA****Electrical data**

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 105.00 W              |
| Nominal voltage                                             | 100...277 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 529 mA                |
| Inrush current                                              | 50 A                  |
| Inrush current time $T_{h50}$                               | 1000 $\mu$ s          |
| Max. number of luminaires per miniature circuit breaker B16 | 5                     |
| Max. number of luminaires per miniature circuit breaker C10 | 8                     |
| Max. number of luminaires per miniature circuit breaker C16 | 12                    |
| Power factor $\lambda$                                      | < 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

**Photometrical data**

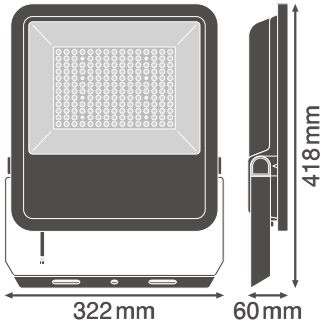
|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 15000 lm                  |
| Luminous efficacy                            | 143 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | $\geq 80$                 |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Luminous intensity                           | -                         |
| Low flicker                                  | Yes                       |
| Flickering metric (Pst LM)                   | -                         |
| Stroboscope effect metric (SVM)              | -                         |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Photobiological safety group acc. to EN62471 | RG1                       |
| Beam angle                                   | 48° x 92 °                |



FL AREA 105W 840 ASYM 48X92  
BK

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 418.00 mm |
| Width          | 322.00 mm |
| Height         | 60.00 mm  |
| Product weight | 4800.00 g |
| Cable length   | 1000 mm   |



FL AREA VAL 105W ASYM BK

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, 3-pole                 |
| Type of protection                     | IP65                          |
| Protection class IK (shock resistance) | IK08                          |
| Dimmable                               | No                            |
| 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  | 70000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 50000 h               |
| Lifespan L90/B10 at 25 °C  | 35000 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

|                             |        |
|-----------------------------|--------|
| Output current              | 630 mA |
| ECG - Output ripple current | < 15 % |

### Certificates & Standards

|                                                      |               |
|------------------------------------------------------|---------------|
| Standards                                            | CE / CB / EAC |
| Luminaire with limited surface temperature, "D sign" | Yes           |
| Ball shot safe                                       | No            |

### Safety advice

– Max. wind load surface 72 W = 0,083 m<sup>2</sup> / 105 W = 0,102 m<sup>2</sup> / 145 W = 0,124 m<sup>2</sup>

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|    | User instruction / safety instructions | UI Floodlight Area Asym MiCh       |
|    | Legal information                      | LSI FL Area                        |
|    | Legal information                      | Legal Insert FL AREA               |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|    | Declarations of conformity             | FL AREA ASYM BK                    |
|    | Declarations of conformity UKCA        | FL AREA ASYM                       |
| Photometric and lighting design files                                              |                                        | Document name                      |
|   | IES file (IES)                         | FL AREA 105W 840 ASYM 48X92 BK     |
|  | LDT file (Eulumdat)                    | FL AREA 105W 840 ASYM 48X92 BK     |
|  | ULD file (DIALux)                      | FL AREA 105W 840 ASYM              |
|  | ROLF file (RELUX)                      | FL AREA 105W 840 ASYM              |
|  | Light distribution curve type polar    | FL AREA 105W 840 ASYM 48X92 BK     |
| CAD/BIM files                                                                      |                                        | Document name                      |
|  | BIM Revit 3D                           | Floodlight Area                    |
|  | CAD STEP 3D                            | FL AREA 105W                       |
| Tender texts                                                                       |                                        | Document name                      |
|  | Tender documents                       | FLOODLIGHT AREA 105 W 4000 K BK-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075539761 | Shipping box<br>1            | 375 mm x 93 mm x 480 mm              | 5375.00 g    | 16.74 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.

References / Links

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

DISCLAIMER

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