# PRODUCT DATASHEET
# FL AREA V 32W ML 840 A48X85 BK

FLOODLIGHT AREA GEN 2 | Floodlight with asymmetric light distribution with up to 150 lm/W




## Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP66)
- D-sign according to EN 60598-2-24 for fire-risk commercial unit, e.g. by accumulation of dust
- Public areas
- Sports facilities
- Construction areas
- Parking
- Logistics areas, transport facilities and corridors

## Product benefits

- Breather membrane to optimize air exchange, without compromising IP protection
- Highly versatile due to selectable lumen steps (Multi Lumen) on the housing
- Robust cable gland with integrated waterstop function
- High light uniformity and low glare light thanks to precise lens design
- Robust and weatherproof: IP66 / IK08, C4 corrosion protection for harsh environments
- Effective thermal management: up to 75,000 operating hours lifespan
- Insect-friendly: 3000 K light protects wildlife, supports subsidies
- Energy savings of up to 90 % compared to halogen lamp floodlights
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt

## Product features

- High luminous output up to 25.000 lm, with top efficiency up to 150 lm/W
- Asymmetric light distribution for various application areas
- Multi Lumen function to adjust brightness levels to suit specific needs
- Type of protection: IP66
- Corrosion resistance C4: suitable for use in environments with moderate salinity
- Pre-installed, flexible 1 m cable (H05RN-F), wrapped 3 x 1.0 $mm^2$ single wires
- Mounting bracket with 30° angle and wide rotation area




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# TECHNICAL DATA

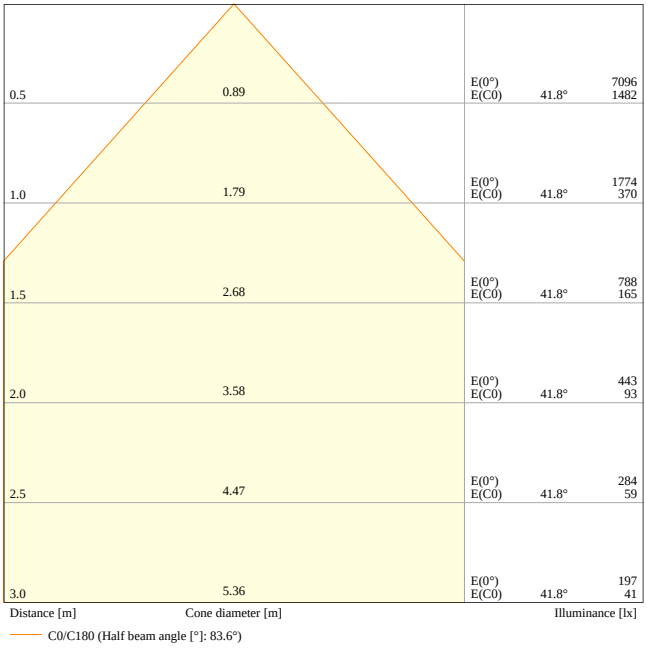
## Electrical data

| | |
|---|---|
| Nominal wattage | 32 W / 22 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 160/115 mA |
| Inrush current | 8.1 A |
| Inrush current time $T_{h50}$ | 43.5 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 80 |
| Max. number of luminaires per miniature circuit breaker C10 | 50 |
| Max. number of luminaires per miniature circuit breaker C16 | 80 |
| Power factor λ | > 0.90 |
| Maximum total harmonic distortion | < 20 % |
| Protection class | I |
| Surge capability (L-N) | 2 kV |
| Surge capability (L/N-Ground) | 4 kV |
| Operating mode | Integrated LED driver |

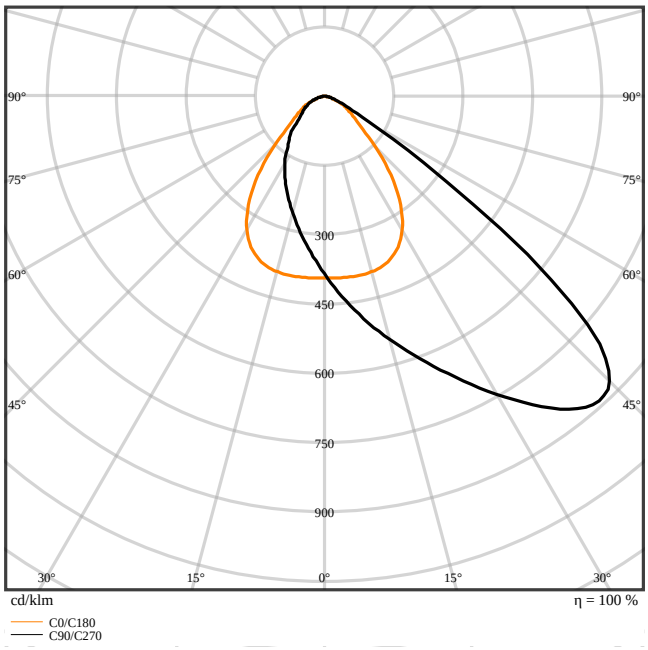
## Photometrical data

| | |
|---|---|
| Luminous flux | 4500 lm / 3250 lm |
| Luminous efficacy | 141 lm/W / 148 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | > 80 |
| Standard deviation of color matching | 5 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | ≤1 |
| Stroboscope effect metric (SVM) | <0.9 |
| Photobiological safety group acc. to EN62778 | RG0 |
| Photobiological safety group acc. to EN62471 | RG0 |
| Beam angle | 48° x 85 ° |


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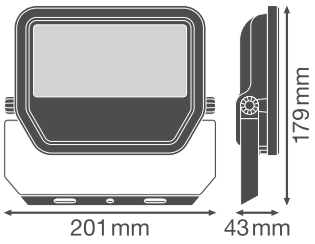
## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 32 W | 4000 K | 4500 lm | 141 lm/W |
| 22 W | 4000 K | 3250 lm | 148 lm/W |

## Dimensions & Weight

| | |
|---|---|
| Length | 201.00 mm |
| Width | 179.00 mm |
| Height | 43.00 mm |
| Product weight | 850.00 g |
| Cable length | 1000 mm |


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FL 50 P SY100

## Materials & Colors

| | |
|---|---|
| Product color | Black |
| Housing color | Black |
| RAL Color (most similar) | RAL 9017 |
| 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…+80 °C |
| Type of connection | Cable, 3-pole |
| Type of protection | IP66 |
| Protection class IK (shock resistance) | IK07 |
| Corrosion resistance class acc. to EN 12944 | C4 Medium |
| Dimmable | No |
| Mounting type | Surface |
| Mounting location | Wall / Pole / Floor / Ceiling |
| Application environment | Outdoor |
| Mounting height | 5 m |
| Mechanically adjustable | Yes |
| With light source | Yes |
| Replaceable light source | No |


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## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 100000 h [1)] |
| Lifespan L80/B10 at 25 °C | 75000 h [1)] |
| Lifespan L90/B10 at 25 °C | 35000 h [1)] |
| Number of switching cycles | 100000 |

1) 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 | 250 mA |
| Output ripple current (100 Hz) | 20 % |

## Emergency lighting

| | |
|---|---|
| Type of emergency operation test | None |

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / Dmark / UKCA / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe | No |
| EPD | LEDV-00049-V01.01-EN |

## Additional product data

| | |
|---|---|
| Added function | MULTI LUMEN |

## Safety advice

- Max. wind load surface 16 W = 0,015 $m^2$ / 32 W = 0,025 $m^2$ / 50 W = 0,045 $m^2$ / 67 W = 0,070 $m^2$ / 100 W = 0,085 $m^2$ / 133 W and 160 W = 0,105 $m^2$
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire must be disposed of.
- Terminal block not included. Installation must be made by a qualified person.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.
- 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 | FLOODLIGHT AREA |


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| | Documents and certificates | Document name |
|---|---|---|
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | LSI FL AREA Gen2 |
| PDF | Legal information | Safety Insert G11205496 |
| PDF | Legal information | Legal Insert G11277401 |
| PDF | Declarations of conformity | CE declaration FLOODLIGHT AREA |
| PDF | Declarations of conformity UKCA | UKCA declaration FLOODLIGHT AREA |
| PDF | EPD | EPD EN FLOODLIGHT AREA GEN 2 |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | FL AREA V 32W ML 840 A48x85 BK |
| LDT | LDT file (Eulumdat) | FL AREA V 32W ML 840 A48x85 BK |
| | Light distribution curve type cone | FL AREA V 32W ML 840 A48x85 BK |
| | Light distribution curve type polar | FL AREA V 32W ML 840 A48x85 BK |

| | CAD/BIM files | Document name |
|---|---|---|
| RFA | BIM Revit 3D | Floodlight Area G2 |
| STEP | CAD STEP 3D | FL AREA V 32W ML |

| | Tender texts | Document name |
|---|---|---|
| TXT | Tender documents | FLOODLIGHT AREA GEN 2 32W ML 840 A48X85 BK-en |

## LOGISTICAL DATA

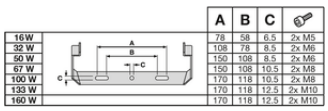
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854427206 | Folding box<br>1 | 69 mm x 206 mm x 180 mm | 931.00 g | 2.56 $dm^3$ |


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| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854427213 | Shipping box<br>8 | 426 mm x 292 mm x 205 mm | 7999.00 g | 25.50 $dm^3$ |

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.

## ADDITIONAL CATALOG INFORMATION



| | A | B | C | |
|---|---|---|---|---|
| 16W | 78 | 58 | 6.5 | 2x M5 |
| 32 W | 108 | 78 | 8.5 | 2x M6 |
| 50 W | 150 | 108 | 8.5 | 2x M6 |
| 67 W | 150 | 108 | 10.5 | 2x M8 |
| 100 W | 170 | 118 | 10.5 | 2x M8 |
| 133 W | 170 | 118 | 12.5 | 2x M10 |
| 160 W | 170 | 118 | 12.5 | 2x M10 |

| | $m^2$ |
|---|---|
| 16W | 0.015 $m^2$ |
| 32 W | 0.025 $m^2$ |
| 50 W | 0.045 $m^2$ |
| 67 W | 0.070 $m^2$ |
| 100 W | 0.085 $m^2$ |
| 133 W | 0.105 $m^2$ |
| 160 W | 0.105 $m^2$ |

| | 230 Vac | | |
|---|---|---|---|
| | C10A | B16A | C16A |
| 16W | 106 | 133 | 170 |
| 32 W | 54 | 87 | 87 |
| 50 W | 31 | 47 | 50 |
| 67 W | 20 | 32 | 32 |
| 100 W | 4 | 4 | 7 |
| 133 W | 4 | 4 | 7 |
| 160 W | 3 | 3 | 6 |

## References / Links

– For Guarantee see www.ledvance.com/guarantee

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