# PRODUCT DATASHEET
# FL MAX P 900/1200W 730 R45 WAL

FLOODLIGHT MAX RADIAL SYMMETRIC 45 | For a balanced mix of range and area illumination with various optics



PERFOR-
MANCE
CLASS

## Areas of application

- Large stadiums & arenas: homogeneous indoor/outdoor lighting, ideal for TV applications
- City centers/parks: suitable for large squares, monuments, events, or open-air cinemas
- Ports/logistics: lights deep & wide areas, ideal with C5 corrosion protection
- Industrial sites: wide-area safety lighting for factories and power plants
- Motorsport venues: various lenses, illuminating long track sections for TV use

## Product benefits

- For extreme temperatures: –40 °C to +50 °C (outdoors), up to +40 °C (indoors)
- Robust and weatherproof: IP66 / IK08, high C5 corrosion protection for harsh environments
- Ball-impact safe: tested to DIN 18032-32, ideal for sports halls
- Optimized logistics: luminaire and driver box can be ordered separately
- Effective thermal management: up to 115,000 operating hours lifespan
- Flexible mounting: luminaires can be mounted overhead, on a pole, or on a wall
- Safety rope: included as standard for fall protection
- Insect-friendly: 3000 K light protects wildlife, supports subsidies
- Investment security: efficient, durable, future-proof (Zhaga / NEMA / Casambi)
- Manual aiming: sight at the luminaire head allows precise orientation to be fixed

## Product features

- Wide angle: broad beam (R45°), medium range, even lighting for large surfaces
- High luminous output up to 270.000 lm, with top efficiency up to 160 lm/W
- Selectable colors (3000 K, 4000 K, 5700 K) and CRI> 80 or CRI> 70
- Flexible driver unit; install up to 150 m away to lighten the mast.
- Modular LED modules, individually swiveling, adjustable beam direction


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# TECHNICAL DATA

## Electrical data

| | |
|---|---|
| Nominal wattage | 900 W / 1200 W |
| Nominal voltage | 330 V |
| Mains frequency | 0/50/60 Hz |
| Nominal current | 1800…4500mA / 2500…6000 mA |
| Inrush current | 88 A |
| Inrush current time $T_{h50}$ | 34 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 1 |
| Max. number of luminaires per miniature circuit breaker C10 | 1 |
| Max. number of luminaires per miniature circuit breaker C16 | 1 |
| Power factor λ | > 0.94 |
| Maximum total harmonic distortion | < 20 % |
| Protection class | I |
| Operating mode | External LED driver |
| Dimming interface | DALI-2 / DALI D4i / IoT |

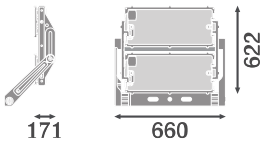
## Photometrical data

| | |
|---|---|
| Luminous flux | 135000 lm / 171500 lm |
| Luminous efficacy | 149 lm/W / 143 lm/W |
| Color temperature | 3000 K |
| Light color (designation) | Warm White |
| Color rendering index Ra | 70 |
| Standard deviation of color matching | 5 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | <1 |
| Stroboscope effect metric (SVM) | <0.4 |
| Photobiological safety group acc. to EN62778 | RG2 |
| Beam angle | 45 ° |

## Dimensions & Weight

| | |
|---|---|
| Length | 622.00 mm |
| Width | 660.00 mm |
| Height | 171.00 mm |
| Product weight | 19400.00 g |


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FL MAX P

## Materials & Colors

| | |
|---|---|
| Product color | White aluminum |
| Housing color | White aluminum |
| RAL Color (most similar) | RAL 9006 |
| 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 | -40…+50 °C |
| Temperature range at storage | -40…+85 °C |
| Type of connection | Cable, 3-pole |
| Type of protection | IP66/IP66 |
| Protection class IK (shock resistance) | IK08 |
| Corrosion resistance class acc. to EN 12944 | C5 High |
| Dimmable | Yes |
| Type of dimming | DALI D4i |
| Dimming range | 0…100 % |
| Mounting type | Surface |
| Mounting location | Wall / Pole / Floor / Ceiling |
| Application environment | Outdoor |
| Mounting height | ≥ 12 m |
| Mechanically adjustable | Yes |


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

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 150000 h [1)] |
| Lifespan L80/B10 at 25 °C | 140000 h [1)] |
| Lifespan L80/B50 at 25 °C | 100000 h |
| Lifespan L90/B10 at 25 °C | 100000 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 | 2572mA / 3502 mA |

## Emergency lighting

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

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / UKCA / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe | Yes |
| EPD | LEDV-00061-V02.01-EN |
| Replaceable light source (EPREL) | Not replaceable |

## Required Accessories and Components

| Product image | Product name | EAN |
|---|---|---|
|  | FL MAX PSU DA P 900W WAL | 4099854681677 |
|  | FL MAX PSU DA P 1200W WAL | 4099854681653 |

## Accessories Optional


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| Product image | Product name | EAN |
|---|---|---|
|  | FL MAX CONNECTOR BOX | 4099854696176 |
|  | FL FLEX ADAPTER SOCKET ZHAGA | 4099854680076 |
|  | FL FLEX ADAPTER SOCKET NEMA | 4099854680113 |

## EQUIPMENT / ACCESSORIES

- Safety rope for luminaire included in all versions
- Power supply unit is not included; luminaire head and and driver box sold separately
- Light modules pre-wired for direct connection in the driver or FL MAX CONNECTOR BOX
- One FL MAX CONNECTOR BOX is required per separately mounted luminaire head and power supply

## Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by a qualified person in order to avoid a hazard.
- 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.
- Do not stare at the operating light source: The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer that 4 m is not expected.

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | FLOODLIGHT MAX GEN 2 |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Safety Insert G11293674 |
| PDF | Legal information | Legal Insert G11293662 |
| PDF | Declarations of conformity | FLOODLIGHT MAX GEN 2 |


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| | Documents and certificates | Document name |
|---|---|---|
| PDF | Declarations of conformity UKCA | FLOODLIGHT MAX GEN 2 |
| PDF | Certificates | ENEC FLOODLIGHT MAX GEN 2 |
| PDF | EPD | ENVIRONMENTAL PRODUCT DECLARATION FLOODLIGHT MAX GEN 2 |

| | CAD/BIM files | Document name |
|---|---|---|
| RFA | BIM Revit 3D | Floodlight Max G2 |
| STEP | CAD STEP 3D | FL MAX G2 900W 1200W |

| | Tender texts | Document name |
|---|---|---|
| TXT | Tender documents | FLOODLIGHT MAX RADIAL SYMMETRIC 45 900 1200W 730 R45 WAL-en |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854682476 | Shipping box<br>1 | 822 mm x 742 mm x 279 mm | 21850.00 g | 170.17 $dm^3$ |

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.

## References / Links

– For Guarantee see www.ledvance.com/guarantee

## DISCLAIMER

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