PRODUCT DATASHEET
FL MAX P 1800W 857 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	1800.00 W
Nominal voltage	330 V
Mains frequency	0/50/60 Hz
Nominal current	3750…9000 mA
Inrush current	77.2 A
Inrush current time T_{h50}	82 µs
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

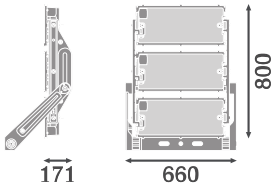
Photometrical data

Luminous flux	222900 lm
Luminous efficacy	123 lm/W
Color temperature	5700 K
Light color (designation)	Cool Daylight
Color rendering index Ra	80
Standard deviation of color matching	5 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG2
Beam angle	45 °

Dimensions & Weight

Length	800.00 mm
Width	660.00 mm
Height	171.00 mm
Product weight	25900.00 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	5133 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 1800W WAL	4099854681660

Accessories Optional

Product image	Product name	EAN
	FL MAX CONNECTOR BOX	4099854696176

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Product image	Product name	EAN
	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
PDF	Declarations of conformity UKCA	FLOODLIGHT MAX GEN 2
PDF	Certificates	ENEC FLOODLIGHT MAX GEN 2

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	Documents and certificates	Document name
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 1800W

	Tender texts	Document name
TXT	Tender documents	FLOODLIGHT MAX RADIAL SYMMETRIC 45 1800W 857 R45 WAL-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854682612	Shipping box 1	977 mm x 742 mm x 279 mm	28600.00 g	202.26 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

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

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