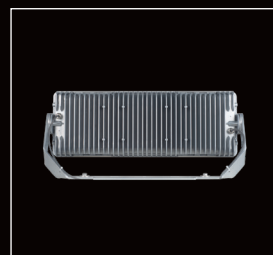# ARENA 1



## DESCRIPTION

ARENA 1 is a premium-quality floodlight designed for large-scale indoor and outdoor applications, offering exceptional luminous efficiency of up to 165 Lm/W. Its advanced optics, durable construction and certified reliability ensure optimal performance. With superior light quality, rugged durability and easy installation, ARENA 1 is the ideal solution for professional lighting needs.

## APPLICATIONS

The ARENA1 floodlight is designed for use in stadiums, arenas, golf courses and football fields. It is also suitable for large indoor and outdoor areas that require extensive illumination.

## BENEFITS

- **Best in Class:** Designed, developed, and manufactured by ENIM, a trusted EU producer.
- **Certified Quality:** CE, CB, ENEC, RoHS and EPD certifications ensure compliance with all EU quality standards for floodlights.
- **Exceptional Efficiency:** Delivers powerful performance with a 400-500W power range and an impressive efficiency of up to 165 lm/W.
- **Adaptable Optics:** A wide selection of optics provides optimal lighting with minimal glare, ensuring flexibility and superior illumination.
- **Enhanced Light Quality & Flexibility:** Various CRI and CCT options guarantee accurate color representation and customizable lighting.
- **Broadcast-Ready Performance:** Meets the highest standards for sports lighting, ensuring optimal brightness, clarity, and minimal flicker for live TV broadcasts.
- **Highest Corrosion Resistance Class:** C5-M ("Marine") corrosion resistance class provides the highest protection against extreme environments, including marine conditions, ensuring durability in high humidity and salt-exposed areas.
- **Impressive Stability Ratings:** The IP66 rating provides complete protection against dust and powerful water jets, while the IK09 rating guarantees impact resistance up to 10 joules.
- **Rugged Design:** A low-profile, powder-coated cast aluminum housing with a durable acrylic lens enhances weather resistance.
- **Engineered for Longevity:** Designed to last 100,000 hours (L95 B10).
- **Easy Installation:** The product is lightweight and offers multiple installation methods for convenience and versatility.
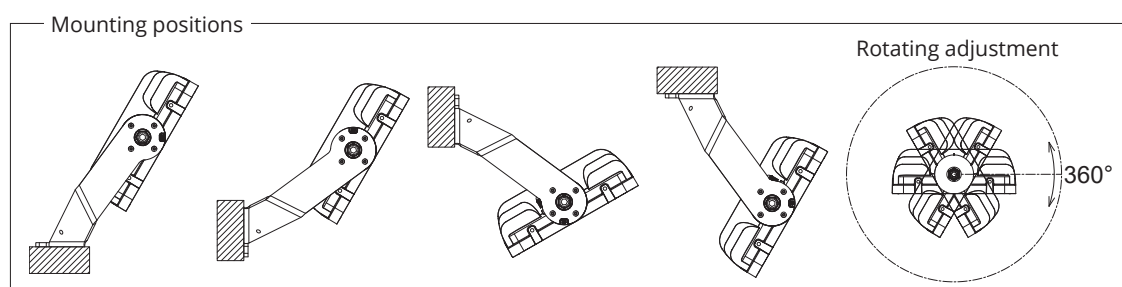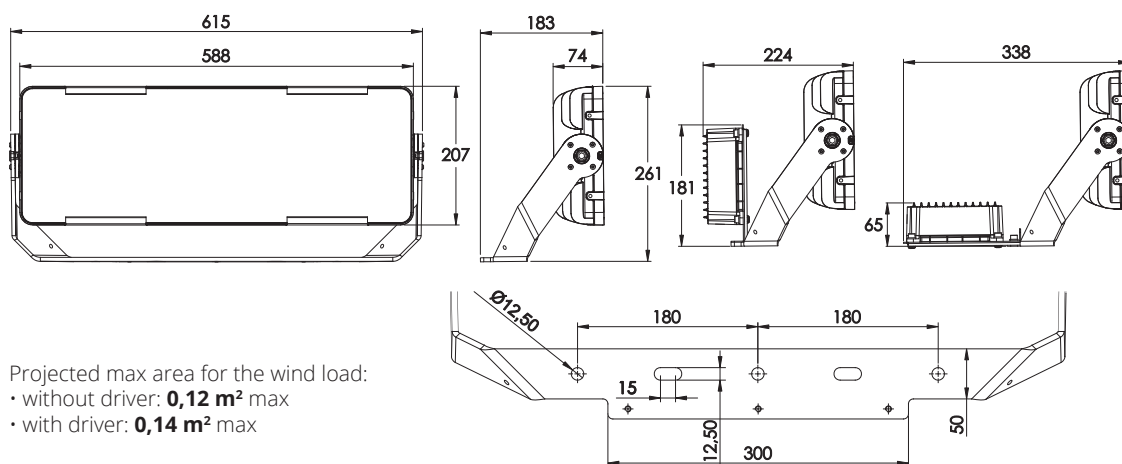- **Sustainability:** EPD certification ensures low carbon emissions and eco-friendly materials.

**MADE IN EU**

**5** warranty

**ENIM** LIGHTING

**TECHNICAL INFORMATION:**

IP 66    IK 09

| ELECTRICAL | V | Input voltage | 198– 528 (VAC) |
|---|---|---|---|
| | Hz | Rated voltage | 50-60 Hz |
| | W | Luminaire wattage | 400-500 |
| | Cosφ | Power factor | ≥ 0.95 |
| OPTICAL | Lm | Luminous flux | 42800-81885 |
| | Lm/W | Luminous efficacy | up to 165 Lm/W |
| | K | Color temperature | 4000/5000/5700/6500 |
| | Tg | Performance temperature | 25 °C |
| | C˚ | Ambient temperature range | - 40 °C ≤ Ta ≤ + 40 °C |
| | CRI | Color rendering index | 70, 80, 90 |

| Power, W | 400-500 |
|---|---|
| Luminous Flux, Lm | 42812-81885 |
| Efficacy, Lm/W | 107-164 |

| Chromatic tolerance ( original MacAdam) | Not higher than 5 |
|---|---|
| Life expectancy L/B | L95 B10 by 100000 hrs (Ta = 25°C) |

| HOUSING | Size | 615 mm x 261 mm x 183 mm |
|---|---|---|
| | Weight | without driver - 10,6 kg, driver weight including fixing parts - 3,8 kg |
| | Body material | Heat sink: Cast aluminum, painted |
| | Protection | IK09 |
| | Installation | Adjustable bracket: angle -90° + 90° |

RAL 7040



Projected max area for the wind load:
· without driver: **0,12 m²** max
· with driver: **0,14 m²** max

Mounting positions

Rotating adjustment

360°

ENIM
LIGHTING

| OPTICS | Optical cover | Glass, thermally hardened, 4 mm |
| --- | --- | --- |
| | Light source | Power LED |
| | Optics | 50x50mm (2x2) |
| | Optics type | 10°, 20°, 40°, 60°, asymmetric |
| | Maintenance | Optical module sealed for life. No internal cleaning required |
| | Protection against light pollution | Visor - Can be ordered separately |

| DRIVER | Input voltage | 198– 528 (VAC) |
| --- | --- | --- |
| | Intelligent temperature Guard (ITG) | Over temperature protection. Tc: 93 °C at 230 VAC & 100 % load |
| | Overvoltage with a variable surge protection | Built-in surge protection 10 kV |
| | Interfaces | DALI-2; DMX-RDM |

| OPTIONAL | Accessories | |
| --- | --- | --- |
| | Code | Name |
| | MET512 | Rotating base |
| | MET490 | ARENA Visor |
| | Effective visor reduces glare and scattered light | |
| | S180000/LASER | ARENA Positioning laser |

| REMARKS | CLO | The light output of an LED module decreases over the course of its lifetime. The Constant Light Output (CLO) function compensates for this natural decline by continuously increasing the output current of the LED driver throughout its lifetime |
| --- | --- | --- |
| | Power factor (Cosφ) | ≥ 0.95 |
| | Recommended mounting height | up to 45 m |
| | | Luminaires are ready to install |
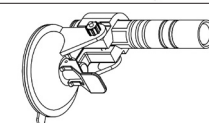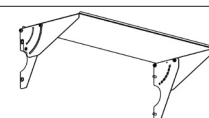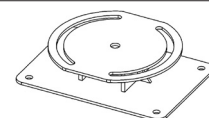
## LOGISTIC DETAILS:

| Full pallet size/cm L*W*H | Number of luminaires per row | Number of rows | QTY per pallet/pcs |
| --- | --- | --- | --- |
| 120 x 80 x 120 | 8 | 3 | 24 |

| Volume per pallet | Kg per pallet | |
| --- | --- | --- |
| | Netto | Brutto |
| 0,587 m³ | 254,4 | 279,4 |

1200

800   1200

ENIM
L I G H T I N G