

# PRODUCT DATASHEET

## FL H M LUM V 300W 740 SYM R90

FLOODLIGHT HIGH MAST 300W LUMINAIRE HEAD | IP66 High power floodlight for large areas and big height applications up to 42klm



VALUE  
CLASS

### Areas of application

- Replacement for luminaires with mercury vapor or metal halide lamps
- Outdoor use (IP66)
- Suitable for high mast applications
- Lighting of large areas
- Construction areas
- Industry

### Product benefits

- Low flicker light thanks to special electronic control gear
- Energy savings thanks to system efficacy of up to 140lm/W
- Optimized product logistic, luminaire heads and power supplies to be ordered separately in stand-alone packaging
- 5 years guarantee
- Symmetric and asymmetric light distribution for various application areas

### Product features

- Cover made of high quality glass
- High-power floodlight with up to 140 lm/W
- Lifetime (L80/B50): up to 100,000 h (at 25 °C)
- Joint or separate installation with floodlight high mast power supply
- Highly-transparent, tempered glass diffusor

TECHNICAL DATA

Electrical data

|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 300.00 W            |
| Nominal voltage                                             | 345 V               |
| Mains frequency                                             | 50...60 Hz          |
| Nominal current                                             | 810.000 mA          |
| Inrush current time T <sub>h50</sub>                        | 988 µs              |
| Max. number of luminaires per miniature circuit breaker B16 | 4                   |
| Max. number of luminaires per miniature circuit breaker C10 | 4                   |
| Max. number of luminaires per miniature circuit breaker C16 | 7                   |
| Power factor λ                                              | > 0.90              |
| Protection class                                            | I                   |
| Operating mode                                              | External LED driver |

Photometrical data

|                                              |                     |
|----------------------------------------------|---------------------|
| Luminous flux                                | 42000 lm            |
| Luminous efficacy                            | 132 lm/W            |
| Color temperature                            | 4000 K              |
| Light color (designation)                    | Cool White          |
| Color rendering index Ra                     | 70                  |
| Standard deviation of color matching         | 5 sdc <sub>cm</sub> |
| Luminous intensity                           | 25000 cd            |
| Flickering metric (Pst LM)                   | <1                  |
| Stroboscope effect metric (SVM)              | <0,4                |
| Photobiological safety group acc. to EN62778 | RG1                 |
| Photobiological safety group acc. to EN62471 | RG1                 |
| Beam angle                                   | 90 °                |



FL H M LUM V 300W/500W SYM  
R90

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 479.00 mm |
| Width          | 389.00 mm |
| Height         | 243.00 mm |
| Product weight | 8650.00 g |



Materials & Colors

|                                            |                |
|--------------------------------------------|----------------|
| Product color                              | Black          |
| Housing color                              | Black          |
| Body material                              | Aluminum       |
| Cover material                             | Tempered 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...+70 °C                |
| Type of connection                     | Terminal, 3-Pole (L, N, PE) |
| Type of protection                     | IP66                        |
| Protection class IK (shock resistance) | IK10                        |
| Dimmable                               | Yes                         |
| Mounting type                          | Surface                     |
| Mounting location                      | Wall / Pole / Floor         |
| Application environment                | Outdoor                     |
| Adjustable                             | Yes                         |
| With light source                      | Yes                         |

Lifespan

|                           |                        |
|---------------------------|------------------------|
| Lifespan L70/B50 at 25 °C | 100000 h <sup>1)</sup> |
|---------------------------|------------------------|

|                            |                        |
|----------------------------|------------------------|
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| 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)

### Certificates & Standards

|                                                      |                              |
|------------------------------------------------------|------------------------------|
| Standards                                            | CE / UKCA / ENEC / EMC / EAC |
| Luminaire with limited surface temperature, "D sign" | No                           |
| Replaceable light source (EPREL)                     | Not replaceable              |

### DOWNLOAD DATA

|                                                                                    | Documents and certificates             | Document name                                                     |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------|
|    | User instruction / safety instructions | Floodlight High Mast                                              |
|    | User instruction / safety instructions | FL H M LUM V_POWER SUPPLY_PONTER HOLDER_ CUT OFF HOOD_ WIRE GUARD |
|  | Legal information                      | FL H M LUM V                                                      |
|  | Legal information                      | FL H M                                                            |
|  | Legal information                      | FL H M LUM V_POWER SUPPLY_PONTER HOLDER_ CUT OFF HOOD_ WIRE GUARD |
|  | Declarations of conformity             | CE Declaration FL H M                                             |
|  | Declarations of conformity UKCA        | FL HIGH MAST                                                      |
|  | Certificates                           | FL H M                                                            |
|  | Certificates                           | FL H M LUM V                                                      |

|                                                                                    | Photometric and lighting design files | Document name                   |
|------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
|  | IES file (IES)                        | FL H M LUM V 300W 740 SYM R90   |
|  | LDT file (Eulumdat)                   | FL HIGH MAST V 300W 740 SYM R90 |
|  | ULD file (DIALux)                     | FL H M V 300W 740 SYM R90       |
|  | ROLF file (RELUX)                     | FL H M LUM V 300W 740 SYM R90   |

| Photometric and lighting design files                                             |                                     | Document name                                                |
|-----------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------|
|  | Light distribution curve type polar | FL H M LUM V 300W/500W SYM R90                               |
| CAD/BIM files                                                                     |                                     | Document name                                                |
|   | BIM Revit 3D                        | Floodlight High Mast                                         |
|   | CAD STEP 3D                         | FL H M 300                                                   |
| Tender texts                                                                      |                                     | Document name                                                |
|   | Tender documents                    | FLOODLIGHT HIGH MAST 300W LUMINAIRE HEAD 300W 740 SYM R90-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854196003 | Shipping box<br>1            | 553 mm x 416 mm x 165 mm             | 9297.00 g    | 37.96 dm <sup>3</sup> |

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.