

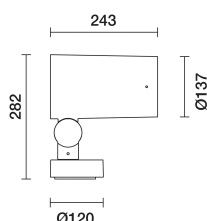
Last information update: April 2024

**Product configuration: EF45+X304.04+X302.01**

EF45: Spotlight with base - Warm White Led - integrated electronic control gear - Very Wide Flood optic

X304.04: Cylindrical screen - Installation with accessory frame - Black

X302.01: Accessory support frame - White

**Product code**

EF45: Spotlight with base - Warm White Led - integrated electronic control gear - Very Wide Flood optic

**Technical description**

Spotlight designed to use LED lamps and a Very Wide Flood optic. The optical assembly and base is made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. 5 mm thick tempered sodium-calcium closing glass. Double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks for rotation on both the vertical axis and horizontal plane. Complete with a monochrome LED circuit and an Opti Beam Reflector optic system. The product includes a PG13.5 cable gland. Electronic DALI ballast integrated in product. Option of using optic accessories assembled via an accessory holder frame. All external screws used are made of A2 stainless steel.

**Installation**

Floor, wall, ceiling or via pole.

**Colour**

White (01) | Black (04) | Grey (15) | Rust Brown (F5)

**Weight (Kg)**

5.5

**Mounting**

wall arm|ground surface|wall surface|ceiling surface

**Wiring**

Double PG.

Complies with EN60598-1 and pertinent regulations

**Accessory code**

X304.04: Cylindrical screen - Installation with accessory frame - Black

**Technical description**

Cylindrical screen for a Ø 137 mm spotlight. The cylindrical screen is made of steel with a zinc-nickel treatment and corrosion-proof passivation. It is painted black. The screen has openings so that water can flow out in applications in upward pointing applications. It has fixing screws that are hidden when the accessory is installed. The screen has internal cover plates that prevent the light from shining out sideways through the water outlet openings. To prevent illuminated cracks, there is a gasket for fastening it to the accessory holder (for X251-X252-X253-X247-X248-X249 only). The screen is supplied with protective glass for the accessory holder, which gives it a protection level of IP66 so that water does not collect inside. It is painted with a liquid coating.

**Installation**

The screen is installed on the accessory holder with hidden screws.

**Colour**

Black (04)

**Weight (Kg)**

0.48

Complies with EN60598-1 and pertinent regulations

**Accessory code**

X302.01: Accessory support frame - White

**Technical description**

Accessory support frame.

**Colour**

White (01)

**Weight (Kg)**

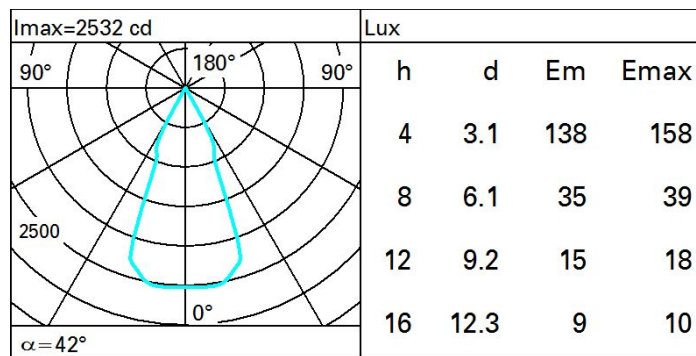
0.15

Complies with EN60598-1 and pertinent regulations

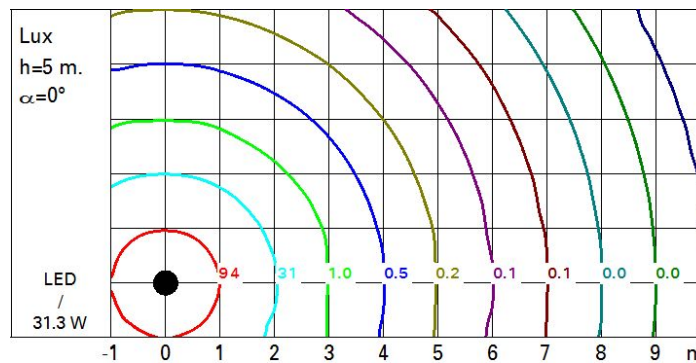
# Technical data

|  |                                |  |  |
|--|--------------------------------|--|--|
| Im system:   | 1319                           | Life Time LED 2:   | 100,000h - L90 - B10 (Ta 40°C)   |
| W system:  | 31.3                           | Lamp code:   | LED  |
| Im source:   | 3880                           | Number of lamps for optical assembly:                                    | 1  |
| W source:  | 27                             | ZVEI Code:   | LED  |
| Luminous efficiency (Im/W, real value):            | 42.1                           | Number of optical assemblies:  | 1  |
| Im in emergency mode:                              | -                              | Intervalllo temperatura ambiente:  | from -30°C to 50°C.  |
| Total light flux at or above an angle of 90° [Lm]: | 0                              | Lifetime of product at ambient operating temperature:                    | ≥ 50.000h Ta=40°C  |
| Light Output Ratio (L.O.R.) [%]:                   | 34                             | Power factor:  | See installation instructions  |
| Beam angle [°]:                                    | 42°                            | Inrush current:  | 21 A / 300 µs  |
| CRI (minimum):                                     | 80                             | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 13 luminaires<br>B16A: 21 luminaires<br>C10A: 21 luminaires<br>C16A: 35 luminaires |
| Colour temperature [K]:                            | 3000                           | Overvoltage protection:  | 10kV Common mode & 6kV Differential mode   |
| MacAdam Step:                                      | 2                              | Control:   | DALI-2   |
| Life Time LED 1:                                   | 100,000h - L90 - B10 (Ta 25°C) |  |  |

# Polar



# Isolux



# UGR diagram

| Corrected UGR values (at 3880 lm bare lamp luminous flux)     |      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|---|------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Riflect.:<br>ceil/cav<br>walls<br>work pl.<br>Room dim<br>x y |      | 0.70<br>0.50<br>0.20 | 0.70<br>0.30<br>0.20 | 0.50<br>0.50<br>0.20 | 0.50<br>0.30<br>0.20 | 0.30<br>0.30<br>0.20 | 0.70<br>0.50<br>0.20 | 0.70<br>0.30<br>0.20 | 0.50<br>0.50<br>0.20 | 0.50<br>0.30<br>0.20 | 0.30<br>0.30<br>0.20 |
| viewed<br>crosswise   |      |                      |                      |                      |                      | viewed<br>endwise    |                      |                      |                      |                      |                      |
| 2H  | 2H   | 3.3                  | 3.8                  | 3.6                  | 4.0                  | 4.3                  | 3.3                  | 3.8                  | 3.6                  | 4.0                  | 4.3                  |
|   | 3H   | 3.9                  | 4.3                  | 4.2                  | 4.6                  | 4.9                  | 3.6                  | 4.0                  | 3.9                  | 4.3                  | 4.5                  |
|   | 4H   | 4.1                  | 4.5                  | 4.4                  | 4.7                  | 5.0                  | 3.6                  | 4.0                  | 4.0                  | 4.3                  | 4.6                  |
|   | 6H   | 4.1                  | 4.5                  | 4.5                  | 4.8                  | 5.1                  | 3.6                  | 4.0                  | 4.0                  | 4.3                  | 4.6                  |
|   | 8H   | 4.1                  | 4.5                  | 4.5                  | 4.8                  | 5.1                  | 3.6                  | 3.9                  | 3.9                  | 4.3                  | 4.6                  |
|   | 12H  | 4.1                  | 4.4                  | 4.4                  | 4.8                  | 5.1                  | 3.6                  | 3.9                  | 3.9                  | 4.2                  | 4.6                  |
| 4H  | 2H   | 3.6                  | 4.0                  | 4.0                  | 4.3                  | 4.6                  | 4.1                  | 4.5                  | 4.4                  | 4.7                  | 5.0                  |
|   | 3H   | 4.3                  | 4.7                  | 4.7                  | 5.0                  | 5.3                  | 4.4                  | 4.8                  | 4.8                  | 5.1                  | 5.4                  |
|   | 4H   | 4.5                  | 4.8                  | 4.9                  | 5.2                  | 5.6                  | 4.5                  | 4.8                  | 4.9                  | 5.2                  | 5.6                  |
|   | 6H   | 4.6                  | 4.9                  | 5.0                  | 5.3                  | 5.7                  | 4.6                  | 4.8                  | 5.0                  | 5.2                  | 5.6                  |
|   | 8H   | 4.6                  | 4.8                  | 5.0                  | 5.3                  | 5.7                  | 4.5                  | 4.8                  | 5.0                  | 5.2                  | 5.6                  |
|   | 12H  | 4.6                  | 4.8                  | 5.0                  | 5.2                  | 5.7                  | 4.5                  | 4.7                  | 5.0                  | 5.2                  | 5.6                  |
| 8H  | 4H   | 4.5                  | 4.8                  | 5.0                  | 5.2                  | 5.6                  | 4.6                  | 4.8                  | 5.0                  | 5.3                  | 5.7                  |
|   | 6H   | 4.7                  | 4.9                  | 5.1                  | 5.3                  | 5.8                  | 4.7                  | 4.9                  | 5.1                  | 5.3                  | 5.8                  |
|   | 8H   | 4.7                  | 4.8                  | 5.1                  | 5.3                  | 5.8                  | 4.7                  | 4.8                  | 5.1                  | 5.3                  | 5.8                  |
|   | 12H  | 4.7                  | 4.8                  | 5.2                  | 5.3                  | 5.8                  | 4.6                  | 4.8                  | 5.1                  | 5.3                  | 5.8                  |
| 12H   | 4H   | 4.5                  | 4.7                  | 5.0                  | 5.2                  | 5.6                  | 4.6                  | 4.8                  | 5.0                  | 5.2                  | 5.7                  |
|   | 6H   | 4.6                  | 4.8                  | 5.1                  | 5.3                  | 5.8                  | 4.6                  | 4.8                  | 5.1                  | 5.3                  | 5.8                  |
|   | 8H   | 4.6                  | 4.8                  | 5.1                  | 5.3                  | 5.8                  | 4.7                  | 4.8                  | 5.2                  | 5.3                  | 5.8                  |
| Variations with the observer position at spacing:             |      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| S =   | 1.0H | 0.7 / -0.7           |                      |                      |                      |                      | 0.7 / -0.7           |                      |                      |                      |                      |
|   | 1.5H | 1.2 / -1.6           |                      |                      |                      |                      | 1.2 / -1.6           |                      |                      |                      |                      |
|   | 2.0H | 2.4 / -2.3           |                      |                      |                      |                      | 2.4 / -2.3           |                      |                      |                      |                      |