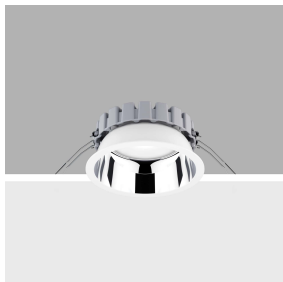


Last information update: February 2025

Product configuration: QF90.39

QF90.39: Ø 163 mm - warm white - DALI - UGR<19 - 24.5W 3010lm - 3000K - White / Aluminium

**Product code**

QF90.39: Ø 163 mm - warm white - DALI - UGR<19 - 24.5W 3010lm - 3000K - White / Aluminium

Technical description

Round fixed luminaire designed to use LED lamps with C.o.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Dissipater made of painted grey die-cast aluminium. Product complete with LED lamp in warm white colour tone (3000K). Light beam with UGR<19 L<3000 cd/m² ideal for environments with video terminals.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thicknesses ranging from 1 mm to 20 mm.

Colour

White / Aluminium (39)

Weight (Kg)

0.68

Mounting

ceiling surface

Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations

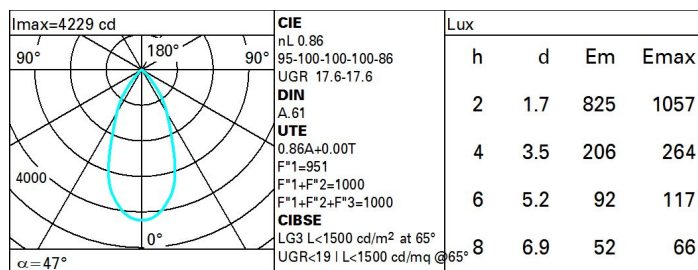


IP20

IP54

On the visible part of
the product once installed**Technical data**

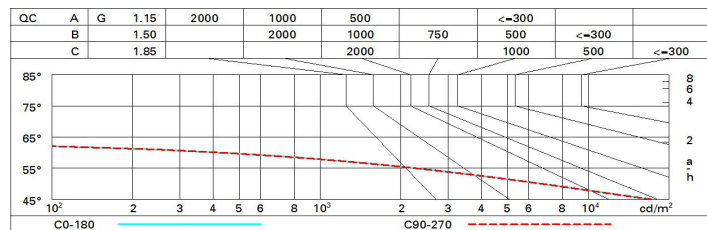
| | | | |
|--|-------|---------------------------------------|---------------------------------|
| lm system: | 3010 | Colour temperature [K]: | 3000 |
| W system: | 24.5 | MacAdam Step: | 2 |
| lm source: | 3500 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W source: | 21 | Lamp code: | LED |
| Luminous efficiency (lm/W, real value): | 122.9 | Number of lamps for optical assembly: | 1 |
| lm in emergency mode: | - | ZVEI Code: | LED |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Number of optical assemblies: | 1 |
| Light Output Ratio (L.O.R.) [%]: | 86 | Control: | DALI-2 |
| CRI (minimum): | 80 | | |

Polar

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 76 | 71 | 68 | 66 | 71 | 68 | 67 | 64 | 75 |
| 1.0 | 79 | 76 | 73 | 70 | 75 | 72 | 72 | 69 | 80 |
| 1.5 | 84 | 81 | 79 | 77 | 80 | 78 | 77 | 74 | 87 |
| 2.0 | 87 | 85 | 83 | 81 | 84 | 82 | 81 | 79 | 91 |
| 2.5 | 89 | 87 | 86 | 84 | 86 | 84 | 84 | 81 | 94 |
| 3.0 | 90 | 89 | 88 | 87 | 87 | 86 | 85 | 83 | 96 |
| 4.0 | 91 | 90 | 89 | 89 | 88 | 88 | 87 | 84 | 98 |
| 5.0 | 91 | 91 | 90 | 90 | 89 | 89 | 87 | 85 | 99 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 3500 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| 2H | 2H | 18.2 | 18.9 | 18.5 | 19.1 | 19.4 | 18.2 | 18.9 | 18.5 | 19.1 | 19.4 |
| | 3H | 18.1 | 18.7 | 18.4 | 18.9 | 19.2 | 18.1 | 18.7 | 18.4 | 18.9 | 19.2 |
| | 4H | 18.0 | 18.6 | 18.4 | 18.8 | 19.2 | 18.0 | 18.6 | 18.4 | 18.9 | 19.2 |
| | 6H | 17.9 | 18.4 | 18.3 | 18.7 | 19.1 | 17.9 | 18.4 | 18.3 | 18.8 | 19.1 |
| | 8H | 17.9 | 18.4 | 18.3 | 18.7 | 19.0 | 17.9 | 18.4 | 18.3 | 18.7 | 19.0 |
| | 12H | 17.9 | 18.3 | 18.2 | 18.7 | 19.0 | 17.9 | 18.3 | 18.2 | 18.7 | 19.0 |
| 4H | 2H | 18.0 | 18.6 | 18.4 | 18.9 | 19.2 | 18.0 | 18.6 | 18.4 | 18.8 | 19.2 |
| | 3H | 17.9 | 18.3 | 18.2 | 18.7 | 19.0 | 17.9 | 18.3 | 18.2 | 18.7 | 19.0 |
| | 4H | 17.8 | 18.2 | 18.2 | 18.5 | 18.9 | 17.8 | 18.2 | 18.2 | 18.5 | 18.9 |
| | 6H | 17.7 | 18.0 | 18.1 | 18.4 | 18.9 | 17.7 | 18.0 | 18.1 | 18.4 | 18.9 |
| | 8H | 17.6 | 18.0 | 18.1 | 18.4 | 18.8 | 17.6 | 18.0 | 18.1 | 18.4 | 18.8 |
| | 12H | 17.6 | 17.9 | 18.1 | 18.3 | 18.8 | 17.6 | 17.9 | 18.1 | 18.3 | 18.8 |
| 8H | 4H | 17.6 | 18.0 | 18.1 | 18.4 | 18.8 | 17.6 | 18.0 | 18.1 | 18.4 | 18.8 |
| | 6H | 17.6 | 17.8 | 18.0 | 18.3 | 18.7 | 17.6 | 17.8 | 18.0 | 18.3 | 18.7 |
| | 8H | 17.5 | 17.7 | 18.0 | 18.2 | 18.7 | 17.5 | 17.7 | 18.0 | 18.2 | 18.7 |
| | 12H | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 |
| 12H | 4H | 17.6 | 17.9 | 18.1 | 18.3 | 18.8 | 17.6 | 17.9 | 18.1 | 18.3 | 18.8 |
| | 6H | 17.5 | 17.7 | 18.0 | 18.2 | 18.7 | 17.5 | 17.7 | 18.0 | 18.2 | 18.7 |
| | 8H | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 4.2 / -15.1 | | | | | 4.2 / -15.1 | | | | |
| | 1.5H | 7.0 / -37.3 | | | | | 7.0 / -37.3 | | | | |
| | 2.0H | 9.0 / -38.6 | | | | | 9.0 / -38.6 | | | | |