

Last information update: November 2024

Product configuration: N391

N391: extractable, adjustable, recessed LED luminaire - DALI control gear included

**Product code**

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Technical description

Extractable, adjustable, recessed luminaire for neutral white LED lamp. Passive heat dispersion system. Die-cast aluminium main body and frame; stainless steel rotation hinge. Rotation ring with safety cover in a high resistance thermoplastic material. Body adjusted with a manual manoeuvre device: internal 40° - external 65° - rotation on 355° axis. Reflector with high efficiency super-pure aluminium optic - flood beam angle. Die-cast aluminium lamp body closure ring. Tempered transparent glass screen. Dimmable DALI control gear supplied and connected to the luminaire.

Installationrecessed using steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole \varnothing 195 mm**Colour**

White (01)

Weight (Kg)

1.7

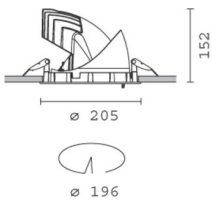
Mounting

ceiling recessed

Wiring

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Technical data**

| | | | |
|--|-------|--|--|
| lm system: | 4252 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 34.7 | Lamp code: | LED |
| lm source: | 5190 | Number of lamps for optical assembly: | 1 |
| W source: | 31 | ZVEI Code: | LED |
| Luminous efficiency (lm/W, real value): | 122.5 | Number of optical assemblies: | 1 |
| lm in emergency mode: | - | Power factor: | See installation instructions |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Inrush current: | 30 A / 200 μ s |
| Light Output Ratio (L.O.R.) [%]: | 82 | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 12 luminaires B16A: 20 luminaires C10A: 20 luminaires C16A: 34 luminaires |
| Beam angle [°]: | 36° | Minimum dimming %: | 1 |
| CRI (minimum): | 80 | Overvoltage protection: | 2kV Common mode & 2kV Differential mode |
| Colour temperature [K]: | 4000 | Control: | DALI-2 |
| MacAdam Step: | 2 | | |

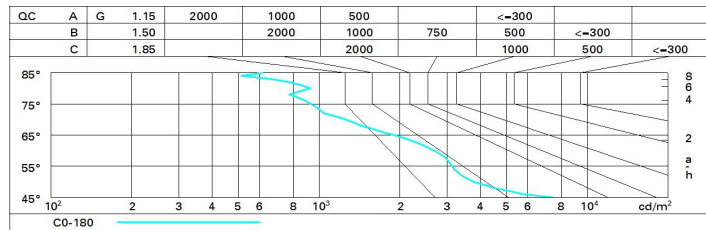
Polar

| Imax=9794 cd | CIE nL 0.82 99-100-100-100-82 UGR 16.4-16.4 DIN A.61 UTE 0.82A+0.00T F*1=985 F*1+F*2=997 F*1+F*2+F*3=1000 CIBSE LG3 L<3000 cd/m ² at 65° UGR<19 L<3000 cd/mq @65° | Lux | | | |
|--------------|---|-----|------|------|------|
| | | h | d | Em | Emax |
| | 2 | 1.3 | 1906 | 2449 | |
| | 4 | 2.6 | 477 | 612 | |
| | 6 | 3.9 | 212 | 272 | |
| | 8 | 5.2 | 119 | 153 | |

Utilisation factors

| | | | | | | | | | |
|------|----|----|----|----|----|----|----|----|-----|
| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
| K0.8 | 74 | 70 | 67 | 65 | 69 | 66 | 66 | 63 | 77 |
| 1.0 | 77 | 73 | 71 | 69 | 72 | 70 | 70 | 67 | 82 |
| 1.5 | 81 | 78 | 76 | 74 | 77 | 75 | 75 | 72 | 88 |
| 2.0 | 83 | 81 | 80 | 78 | 80 | 79 | 78 | 76 | 92 |
| 2.5 | 85 | 83 | 82 | 81 | 82 | 81 | 80 | 78 | 95 |
| 3.0 | 86 | 85 | 84 | 83 | 84 | 83 | 82 | 80 | 97 |
| 4.0 | 87 | 86 | 86 | 85 | 85 | 84 | 83 | 81 | 99 |
| 5.0 | 87 | 87 | 86 | 86 | 86 | 85 | 84 | 82 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 5190 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|------------------|------|------|-------|------|----------------|------|-------|------|------|
| Reflect.: | | viewed crosswise | | | | | viewed endwise | | | | |
| ceiling/cav | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| walls | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| work pl. | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room dim | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 17.0 | 17.6 | 17.3 | 17.8 | 18.1 | 17.0 | 17.6 | 17.3 | 17.8 | 18.1 |
| | 3H | 16.9 | 17.4 | 17.2 | 17.7 | 18.0 | 16.9 | 17.4 | 17.2 | 17.7 | 18.0 |
| | 4H | 16.8 | 17.3 | 17.1 | 17.6 | 17.9 | 16.8 | 17.3 | 17.1 | 17.6 | 17.9 |
| | 6H | 16.7 | 17.2 | 17.1 | 17.5 | 17.8 | 16.7 | 17.2 | 17.1 | 17.5 | 17.8 |
| | 8H | 16.7 | 17.1 | 17.0 | 17.5 | 17.8 | 16.7 | 17.1 | 17.0 | 17.5 | 17.8 |
| | 12H | 16.6 | 17.1 | 17.0 | 17.4 | 17.8 | 16.6 | 17.1 | 17.0 | 17.4 | 17.8 |
| 4H | 2H | 16.8 | 17.3 | 17.1 | 17.6 | 17.9 | 16.8 | 17.3 | 17.1 | 17.6 | 17.9 |
| | 3H | 16.7 | 17.1 | 17.0 | 17.4 | 17.8 | 16.7 | 17.1 | 17.0 | 17.4 | 17.8 |
| | 4H | 16.6 | 17.0 | 17.0 | 17.3 | 17.7 | 16.6 | 17.0 | 17.0 | 17.3 | 17.7 |
| | 6H | 16.5 | 16.8 | 16.9 | 17.2 | 17.6 | 16.5 | 16.8 | 16.9 | 17.2 | 17.6 |
| | 8H | 16.4 | 16.7 | 16.9 | 17.2 | 17.6 | 16.4 | 16.7 | 16.9 | 17.2 | 17.6 |
| | 12H | 16.4 | 16.7 | 16.8 | 17.1 | 17.6 | 16.4 | 16.7 | 16.8 | 17.1 | 17.6 |
| 8H | 4H | 16.4 | 16.7 | 16.9 | 17.2 | 17.6 | 16.4 | 16.7 | 16.9 | 17.2 | 17.6 |
| | 6H | 16.4 | 16.6 | 16.8 | 17.1 | 17.5 | 16.4 | 16.6 | 16.8 | 17.1 | 17.5 |
| | 8H | 16.3 | 16.5 | 16.8 | 17.0 | 17.5 | 16.3 | 16.5 | 16.8 | 17.0 | 17.5 |
| | 12H | 16.3 | 16.4 | 16.8 | 16.9 | 17.4 | 16.3 | 16.4 | 16.8 | 16.9 | 17.4 |
| 12H | 4H | 16.4 | 16.7 | 16.8 | 17.1 | 17.6 | 16.4 | 16.7 | 16.8 | 17.1 | 17.6 |
| | 6H | 16.3 | 16.5 | 16.8 | 17.0 | 17.5 | 16.3 | 16.5 | 16.8 | 17.0 | 17.5 |
| | 8H | 16.3 | 16.4 | 16.8 | 16.9 | 17.4 | 16.3 | 16.4 | 16.8 | 16.9 | 17.4 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | | 5.7 | / | -12.0 | | 5.7 | / | -12.0 | | |
| | 1.5H | | 8.5 | / | -13.0 | | 8.5 | / | -13.0 | | |
| | 2.0H | | 10.5 | / | -14.4 | | 10.5 | / | -14.4 | | |