

Last information update: April 2024

**Product configuration: N004**

N004: Fixed circular recessed luminaire - Ø125 mm - warm white - flood optic - UGR&lt;19

**Product code**

N004: Fixed circular recessed luminaire - Ø125 mm - warm white - flood optic - UGR&lt;19

**Technical description**

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m<sup>2</sup> α>65° flood optic.

**Installation**

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

**Colour**

White / Aluminium (39)

**Weight (Kg)**

1.02

**Mounting**

ceiling recessed

**Wiring**

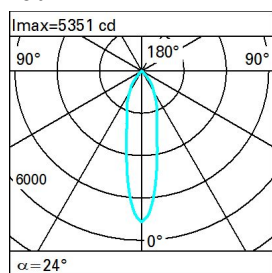
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

**Technical data**

|  |       |  |  |
|--|-------|--|--|
| lm system:   | 1976  | MacAdam Step:  | 2  |
| W system:  | 19.1  | Life Time LED 1:   | > 50,000h - L90 - B10 (Ta 25°C)  |
| lm source:   | 2250  | Lamp code:   | LED  |
| W source:  | 17    | Number of lamps for optical assembly:                                    | 1  |
| Luminous efficiency (lm/W, real value):            | 103.5 | ZVEI Code:   | LED  |
| lm in emergency mode:                              | -     | Number of optical assemblies:  | 1  |
| Total light flux at or above an angle of 90° [Lm]: | 0     | Power factor:  | See installation instructions  |
| Light Output Ratio (L.O.R.) [%]:                   | 88    | Inrush current:  | 16 A / 220 µs  |
| Beam angle [°]:                                    | 24°   | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 15 luminaires<br>B16A: 24 luminaires<br>C10A: 24 luminaires<br>C16A: 40 luminaires |
| CRI (minimum):                                     | 90    | Overvoltage protection:  | 2kV Common mode & 1kV Differential mode  |
| Colour temperature [K]:                            | 3000  | Control:   | DALI-2   |

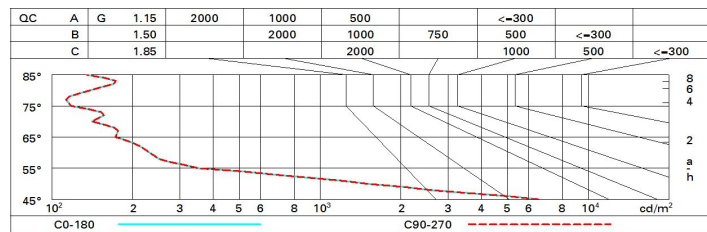
**Polar**

|  | <b>CIE</b><br>nL 0.88<br>98-100-100-100-88<br>UGR 17.3-17.3<br><b>DIN</b><br>A.61<br><b>UTE</b><br>0.88A+0.00T<br>F*1=978<br>F*1+F*2=999<br>F*1+F*2+F*3=1000<br><b>CIBSE</b><br>LG3 L<1500 cd/m <sup>2</sup> at 65°<br>UGR<19   L<1500 cd/m <sup>2</sup> @ 65° | <b>Lux</b> |     |      |      |
|---|--|------------|-----|------|------|
|   |  | h          | d   | Em   | Emax |
|   |  | 2          | 0.9 | 1011 | 1338 |
|   |  | 4          | 1.7 | 253  | 334  |
|   |  | 6          | 2.6 | 112  | 149  |
| α=24°   |  | 8          | 3.4 | 63   | 84   |

# Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 79 | 74 | 71 | 69 | 74 | 71 | 70 | 68 | 77  |
| 1.0  | 82 | 78 | 76 | 73 | 77 | 75 | 75 | 72 | 82  |
| 1.5  | 86 | 84 | 81 | 79 | 83 | 81 | 80 | 77 | 88  |
| 2.0  | 89 | 87 | 85 | 84 | 86 | 84 | 83 | 81 | 92  |
| 2.5  | 91 | 89 | 88 | 87 | 88 | 87 | 86 | 84 | 95  |
| 3.0  | 92 | 91 | 90 | 89 | 89 | 89 | 88 | 85 | 97  |
| 4.0  | 93 | 92 | 92 | 91 | 91 | 90 | 89 | 87 | 99  |
| 5.0  | 94 | 93 | 93 | 92 | 92 | 91 | 90 | 88 | 100 |

# Luminance curve limit



# UGR diagram

| Corrected UGR values (at 2250 lm bare lamp luminous flux)        |      |                     |      |      |      |      |                   |      |      |      |      |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceiling/cav<br>walls<br>work pl.<br>Room dim<br>x y |      | viewed<br>crosswise |      |      |      |      | viewed<br>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   | 17.9                | 18.5 | 18.2 | 18.8 | 19.0 | 17.9              | 18.5 | 18.2 | 18.8 | 19.0 |
|  | 3H   | 17.7                | 18.3 | 18.1 | 18.6 | 18.9 | 17.7              | 18.3 | 18.1 | 18.6 | 18.9 |
|  | 4H   | 17.7                | 18.2 | 18.0 | 18.5 | 18.8 | 17.7              | 18.2 | 18.0 | 18.5 | 18.8 |
|  | 6H   | 17.6                | 18.1 | 17.9 | 18.4 | 18.7 | 17.6              | 18.1 | 17.9 | 18.4 | 18.7 |
|  | 8H   | 17.6                | 18.0 | 17.9 | 18.4 | 18.7 | 17.6              | 18.0 | 17.9 | 18.4 | 18.7 |
|  | 12H  | 17.5                | 18.0 | 17.9 | 18.3 | 18.7 | 17.5              | 18.0 | 17.9 | 18.3 | 18.7 |
| 4H   | 2H   | 17.7                | 18.2 | 18.0 | 18.5 | 18.8 | 17.7              | 18.2 | 18.0 | 18.5 | 18.8 |
|  | 3H   | 17.5                | 18.0 | 17.9 | 18.3 | 18.7 | 17.5              | 18.0 | 17.9 | 18.3 | 18.7 |
|  | 4H   | 17.4                | 17.8 | 17.8 | 18.2 | 18.6 | 17.4              | 17.8 | 17.8 | 18.2 | 18.6 |
|  | 6H   | 17.3                | 17.7 | 17.8 | 18.1 | 18.5 | 17.3              | 17.7 | 17.8 | 18.1 | 18.5 |
|  | 8H   | 17.3                | 17.6 | 17.7 | 18.0 | 18.5 | 17.3              | 17.6 | 17.7 | 18.0 | 18.5 |
|  | 12H  | 17.2                | 17.5 | 17.7 | 18.0 | 18.4 | 17.2              | 17.5 | 17.7 | 18.0 | 18.4 |
| 8H   | 4H   | 17.3                | 17.6 | 17.7 | 18.0 | 18.5 | 17.3              | 17.6 | 17.7 | 18.0 | 18.5 |
|  | 6H   | 17.2                | 17.5 | 17.7 | 17.9 | 18.4 | 17.2              | 17.5 | 17.7 | 17.9 | 18.4 |
|  | 8H   | 17.1                | 17.4 | 17.6 | 17.8 | 18.3 | 17.1              | 17.4 | 17.6 | 17.8 | 18.3 |
|  | 12H  | 17.1                | 17.3 | 17.6 | 17.8 | 18.3 | 17.1              | 17.3 | 17.6 | 17.8 | 18.3 |
| 12H  | 4H   | 17.2                | 17.5 | 17.7 | 18.0 | 18.4 | 17.2              | 17.5 | 17.7 | 18.0 | 18.4 |
|  | 6H   | 17.1                | 17.4 | 17.6 | 17.8 | 18.3 | 17.1              | 17.4 | 17.6 | 17.8 | 18.3 |
|  | 8H   | 17.1                | 17.3 | 17.6 | 17.8 | 18.3 | 17.1              | 17.3 | 17.6 | 17.8 | 18.3 |
| Variations with the observer position at spacing:                |      |                     |      |      |      |      |                   |      |      |      |      |
| S =  | 1.0H | 4.4 / -24.6         |      |      |      |      | 4.4 / -24.6       |      |      |      |      |
|  | 1.5H | 7.2 / -25.8         |      |      |      |      | 7.2 / -25.8       |      |      |      |      |
|  | 2.0H | 9.2 / -26.2         |      |      |      |      | 9.2 / -26.2       |      |      |      |      |