Last information update: April 2024

Product configuration: N065
N065: adjustable luminaire - $\varnothing 75 \mathrm{~mm}$ - neutral white - medium optic - frame

## Product code

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## Technical description

Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a neutral white colour tone 4000K. Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an antiscratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated $30^{\circ}$ relative to the horizontal plane and $358^{\circ}$ about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

## Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm .

| Colour | Weight (Kg) |
| :--- | :--- |
| White / Aluminium (39) | 0.45 |

Mounting
ceiling recessed


Wiring
Product complete with DALI components
Complies with EN60598-1 and pertinent regulations


| Technical data |  |  |  |
| :---: | :---: | :---: | :---: |
| Im system: | 157 | MacAdam Step: | 2 |
| W system: | 8.6 | Life Time LED 1: | > 50,000h - L90-B10 (Ta $25^{\circ} \mathrm{C}$ ) |
| Im source: | 1050 | Lamp code: | LED |
| W source: | 6.2 | Number of lamps for optical | 1 |
| Luminous efficiency ( $\mathrm{Im} / \mathrm{W}$, real value): | 18.3 | assembly: <br> ZVEI Code: | LED |
| Im in emergency mode: | - | Number of optical | 1 |
| Total light flux at or above an angle of $90^{\circ}[\mathrm{Lm}]$ : | 0 | assemblies: <br> Power factor: | See installation instructions |
| Light Output Ratio (L.O.R.) [\%]: | 15 |  | $16 \mathrm{~A} / 220$ s |
| Beam angle [ ${ }^{\circ}$ ]: | $19^{\circ} / 18^{\circ}$ | luminaires of this type per | B10A: 15 luminaires |
| CRI (minimum): | 80 | miniature circuit breaker: | B16A: 24 luminaires |
| Colour temperature [K]: | 4000 |  | C10A: 24 luminaires C16A: 40 luminaires |
|  |  | Overvoltage protection: | 2 kV Common mode \& 1 kV <br> Differential mode |
|  |  | Control: | DALI-2 |

## Polar

|  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

## Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K0.8 | 13 | 13 | 12 | 12 | 13 | 12 | 12 | 12 | 78 |
| 1.0 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 82 |
| 1.5 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 88 |
| 2.0 | 15 | 15 | 15 | 14 | 15 | 14 | 14 | 14 | 93 |
| 2.5 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 95 |
| 3.0 | 16 | 16 | 15 | 15 | 15 | 15 | 15 | 15 | 97 |
| 4.0 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 99 |
| 5.0 | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 100 |

Luminance curve limit


UGR diagram

| Corrected UGR values (at 1050 Im bare lamp luminous flux) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Riflect.: <br> ceil/cav <br> walls <br> work pl. <br> Room dim |  | $\begin{aligned} & 0.70 \\ & 0.50 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.70 \\ & 0.30 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.50 \\ & 0.50 \\ & 0.20 \end{aligned}$ viewed osswis | $\begin{aligned} & 0.50 \\ & 0.30 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.30 \\ & 0.30 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.70 \\ & 0.50 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.70 \\ & 0.30 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.50 \\ & 0.50 \\ & 0.20 \end{aligned}$ <br> viewed endwise | $\begin{aligned} & 0.50 \\ & 0.30 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.30 \\ & 0.30 \\ & 0.20 \end{aligned}$ |
| 2 H | 2 H | -1.4 | 0.7 | -1.0 | 1.0 | 1.3 | 4.5 | 6.6 | 4.9 | 6.9 | 7.2 |
|  | 3 H | -1.4 | 0.0 | -1.0 | 0.4 | 0.7 | 4.4 | 5.8 | 4.8 | 6.1 | 6.5 |
|  | 4 H | -1.3 | -0.2 | -1.0 | 0.1 | 0.4 | 4.4 | 5.5 | 4.7 | 5.8 | 6.1 |
|  | 6 H | -1.2 | -0.4 | -0.8 | -0.0 | 0.3 | 4.3 | 5.1 | 4.7 | 5.5 | 5.8 |
|  | 8 H | -1.1 | -0.2 | -0.7 | 0.1 | 0.5 | 4.3 | 5.1 | 4.7 | 5.5 | 5.8 |
|  | 12H | -0.9 | 0.0 | -0.5 | 0.4 | 0.7 | 4.2 | 5.1 | 4.6 | 5.4 | 5.8 |
| 4 H | 2 H | -1.5 | -0.3 | -1.1 | -0.0 | 0.3 | 4.4 | 5.5 | 4.8 | 5.8 | 6.2 |
|  | 3 H | -1.5 | -0.6 | -1.1 | -0.2 | 0.1 | 4.3 | 5.1 | 4.7 | 5.5 | 5.9 |
|  | 4 H | -1.5 | -0.5 | -1.0 | -0.1 | 0.3 | 4.1 | 5.1 | 4.5 | 5.5 | 5.9 |
|  | 6 H | -1.5 | 0.1 | -1.0 | 0.6 | 1.1 | 3.8 | 5.4 | 4.2 | 5.9 | 6.3 |
|  | 8 H | -1.4 | 0.5 | -0.9 | 1.0 | 1.5 | 3.6 | 5.5 | 4.1 | 6.0 | 6.5 |
|  | 12H | -1.0 | 0.9 | -0.5 | 1.4 | 1.9 | 3.5 | 5.5 | 4.0 | 5.9 | 6.4 |
| 8 H | 4 H | -1.9 | -0.0 | -1.4 | 0.5 | 1.0 | 3.7 | 5.6 | 4.2 | 6.1 | 6.6 |
|  | 6 H | -1.5 | 0.2 | -1.0 | 0.7 | 1.2 | 3.7 | 5.4 | 4.2 | 5.9 | 6.4 |
|  | 8 H | -1.1 | 0.4 | -0.5 | 0.8 | 1.4 | 3.7 | 5.2 | 4.3 | 5.6 | 6.2 |
|  | 12H | -0.3 | 0.7 | 0.2 | 1.1 | 1.7 | 3.9 | 4.9 | 4.4 | 5.4 | 5.9 |
| 12H | 4 H | -1.9 | -0.0 | -1.4 | 0.5 | 1.0 | 3.7 | 5.6 | 4.2 | 6.1 | 6.6 |
|  | 6 H | -1.4 | 0.0 | -0.9 | 0.5 | 1.1 | 3.8 | 5.3 | 4.3 | 5.7 | 6.3 |
|  | 8 H | -0.8 | 0.2 | -0.3 | 0.7 | 1.2 | 4.0 | 5.0 | 4.5 | 5.5 | 6.0 |
| Variations with the o bserver position at spacing: |  |  |  |  |  |  |  |  |  |  |  |
| $\mathrm{S}=$ | 1.0 H |  |  | / -2 |  |  |  |  | . 1 / -6. |  |  |
|  | 1.5 H |  |  | / -2 |  |  |  |  | 0.8 / -6 |  |  |
|  | 2.0 H |  |  | / |  |  |  |  | 2.8 / 7 |  |  |

