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## Product configuration: MN91+LED

MN91: recessed luminaire Ø 137 - warm white active dissipation LED - integrated DALI control gear - medium


Product code
MN91: recessed luminaire $\varnothing 137$ - warm white active dissipation LED - integrated DALI control gear - medium Attention! Code no longer in production

## Technical description

recessed adjustable removable luminaire for LED lamp with active heat dissipation system. Structure with die-cast aluminium frame and main body, steel rotation hinge, chrome-plated aluminium body closing ring. Forced heat dissipation using super-silent fan with magnetic anti-friction operation guaranteeing lasting efficiency and quietness, keeping LED lamp performance unchanged. The fan has an anti-dust protection system; safety thermal breaker and is set up for fast, easy replacement. Reflector with high efficiency super-pure aluminium optic - medium beam angle. Body adjusted using manually operated device: internal $30^{\circ}$ - external $75^{\circ}$ rotation about axis $355^{\circ}$. Supplied with DALI dimmable control gear connected to the luminaire. Warm white high colour rendering index LED CRI (Ra) > 90 .

## Installation

recessed using steel springs in false ceilings with thicknesses starting at 1 mm ; preparation hole $\varnothing 125$

ø 137


ค 125

## Colour

White / Aluminium (39) | Grey/Aluminium (78)
Mounting
ceiling recessed

## Wiring

on control gear box with quick-coupling connections


## C

IP20

Technical data

| Im system: | 2765 | CRI: | 90 |
| :---: | :---: | :---: | :---: |
| W system: | 42 | Colour temperature [K]: | 3000 |
| Im source: | 3500 | MacAdam Step: | 3 |
| W source: | 36 | Life Time LED 1: | 50.000h - L80-B10 ( $\mathrm{Ta} 25^{\circ} \mathrm{C}$ ) |
| Luminous efficiency ( $\mathrm{Im} / \mathrm{W}$, | 65,8 | Lamp code: | LED |
| real value): |  | Number of lamps for optical | 1 |
| Im in emergency mode: | - | assembly: |  |
| Total light flux at or above | 0 | ZVEI Code: | LED |
| an angle of $90^{\circ}[\mathrm{Lm}]$ : |  | Number of optical | 1 |
| Light Output Ratio (L.O.R.) | 79 | assemblies: |  |
| [\%]: |  | Control: | DALI |
| Beam angle [ ${ }^{\circ}$ ]: | $22^{\circ}$ |  |  |

Polar


## Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K 0.8 | 70 | 66 | 63 | 61 | 65 | 62 | 62 | 59 | 75 |
| 1.0 | 73 | 70 | 67 | 65 | 69 | 66 | 66 | 63 | 80 |
| 1.5 | 77 | 75 | 72 | 71 | 74 | 72 | 71 | 68 | 87 |
| 2.0 | 80 | 78 | 76 | 75 | 77 | 75 | 74 | 72 | 91 |
| 2.5 | 81 | 80 | 79 | 78 | 79 | 78 | 77 | 75 | 94 |
| 3.0 | 82 | 81 | 80 | 80 | 80 | 79 | 78 | 76 | 96 |
| 4.0 | 84 | 83 | 82 | 81 | 81 | 81 | 80 | 78 | 98 |
| 5.0 | 84 | 83 | 83 | 83 | 82 | 82 | 80 | 78 | 99 |

Luminance curve limit


