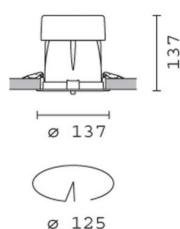


Last information update: May 2024

**Product configuration: MM33+LED**

MM33: recessed luminaire Ø 137 - neutral white active dissipation LED integrated electronic control gear - Spot

**Product code**MM33: recessed luminaire Ø 137 - neutral white active dissipation LED integrated electronic control gear - Spot **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 -Spot beam angle. Body adjusted using manually operated device: internal 30° - external 75° - rotation about axis 355°. Supplied with electronic control gear connected to the luminaire. Neutral white high efficiency LED

**Installation**

recessed using special steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole Ø 125

**Colour**

White / Aluminium (39) | Grey/Aluminium (78)

**Mounting**

ceiling recessed

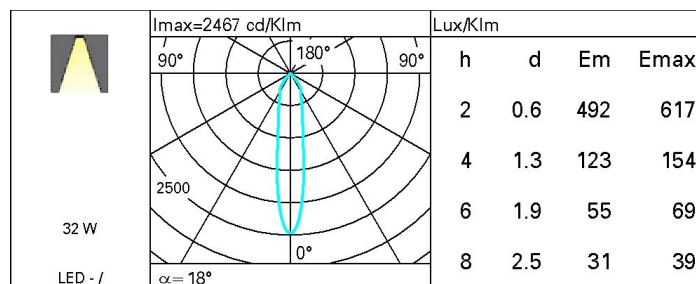
**Wiring**

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Technical data**

|                                                    |      |                                       |                               |
|----------------------------------------------------|------|---------------------------------------|-------------------------------|
| lm system:                                         | 3080 | CRI:                                  | 80                            |
| W system:                                          | 37,5 | Colour temperature [K]:               | 4000                          |
| lm source:                                         | 4000 | MacAdam Step:                         | 3                             |
| W source:                                          | 32   | Life Time LED 1:                      | 50.000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value):            | 82,1 | Lamp code:                            | LED                           |
| lm in emergency mode:                              | -    | Number of lamps for optical assembly: | 1                             |
| Total light flux at or above an angle of 90° [Lm]: | 0    | ZVEI Code:                            | LED                           |
| Light Output Ratio (L.O.R.) [%]:                   | 77   | Number of optical assemblies:         | 1                             |
| Beam angle [°]:                                    | 18°  |                                       |                               |

**Polar**

Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 68 | 63 | 61 | 58 | 63 | 60 | 60 | 57 | 74  |
| 1.0  | 71 | 67 | 65 | 63 | 66 | 64 | 64 | 61 | 79  |
| 1.5  | 75 | 72 | 70 | 68 | 71 | 69 | 69 | 66 | 86  |
| 2.0  | 78 | 76 | 74 | 73 | 75 | 73 | 72 | 70 | 91  |
| 2.5  | 79 | 78 | 76 | 75 | 77 | 75 | 75 | 72 | 94  |
| 3.0  | 80 | 79 | 78 | 77 | 78 | 77 | 76 | 74 | 96  |
| 4.0  | 81 | 80 | 80 | 79 | 79 | 79 | 77 | 75 | 98  |
| 5.0  | 82 | 81 | 81 | 80 | 80 | 79 | 78 | 76 | 99  |

Luminance curve limit

