

Last information update: May 2018



**adjustable luminaire - Ø 125 mm - neutral white - flood optic - frame**

**Product code**  
N082

**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 anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° 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.

**Dimension (mm)**  
Ø144x137

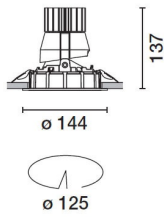
**Colour**  
White/Aluminium (39)

**Weight (Kg)**  
0.8

**Mounting**  
ceiling recessed

**Wiring**  
Product complete with electronic components

Complies with EN60598-1 and pertinent regulations



**Product configuration: N082**

**Product characteristics**

Total lighting output [Lm]: 878.6  
Total power [W]: 15.4  
Luminous efficacy [Lm/W]: 57.1  
Life Time: 50,000h - L80 - B10 (Ta 25°C)

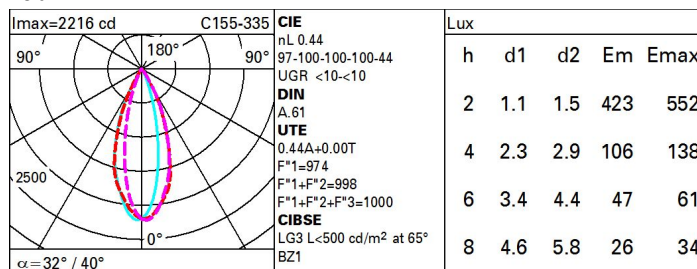
Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 44  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 13  
Nominal luminous [Lm]: 2000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 32° / 40°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 2.4  
Colour temperature [K]: 4000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 2

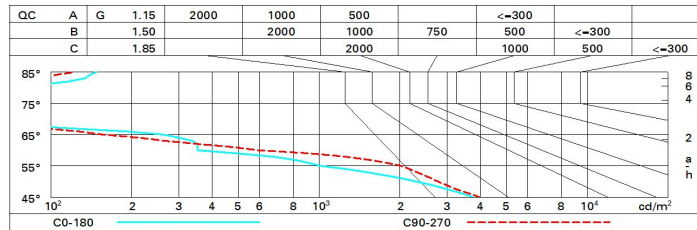
**Polar**



Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 39 | 37 | 36 | 34 | 37 | 35 | 35 | 34 | 77  |
| 1.0  | 41 | 39 | 38 | 37 | 39 | 37 | 37 | 36 | 81  |
| 1.5  | 43 | 42 | 41 | 40 | 41 | 40 | 40 | 38 | 88  |
| 2.0  | 45 | 44 | 43 | 42 | 43 | 42 | 42 | 40 | 92  |
| 2.5  | 45 | 45 | 44 | 43 | 44 | 43 | 43 | 42 | 95  |
| 3.0  | 46 | 45 | 45 | 44 | 45 | 44 | 44 | 43 | 97  |
| 4.0  | 47 | 46 | 46 | 45 | 45 | 45 | 44 | 43 | 99  |
| 5.0  | 47 | 47 | 46 | 46 | 46 | 46 | 45 | 44 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2000 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  |      | viewed crosswise |      |      |      |      | viewed endwise |      |      |      |      |
| x   | y    |                  |      |      |      |      |                |      |      |      |      |
| 2H  | 2H   | 3.5              | 4.1  | 3.8  | 4.3  | 4.6  | 10.4           | 11.0 | 10.7 | 11.2 | 11.5 |
|   | 3H   | 3.4              | 4.0  | 3.7  | 4.2  | 4.5  | 10.3           | 10.8 | 10.6 | 11.1 | 11.4 |
|   | 4H   | 3.4              | 3.9  | 3.7  | 4.2  | 4.4  | 10.2           | 10.7 | 10.5 | 11.0 | 11.3 |
|   | 6H   | 3.3              | 3.7  | 3.6  | 4.1  | 4.4  | 10.1           | 10.6 | 10.5 | 10.9 | 11.2 |
|   | 8H   | 3.3              | 3.7  | 3.6  | 4.0  | 4.4  | 10.1           | 10.5 | 10.5 | 10.9 | 11.2 |
|   | 12H  | 3.2              | 3.6  | 3.6  | 4.0  | 4.3  | 10.1           | 10.5 | 10.4 | 10.8 | 11.2 |
| 4H  | 2H   | 3.6              | 4.1  | 3.9  | 4.4  | 4.7  | 10.2           | 10.7 | 10.6 | 11.0 | 11.3 |
|   | 3H   | 3.5              | 3.9  | 3.9  | 4.3  | 4.6  | 10.1           | 10.5 | 10.5 | 10.9 | 11.2 |
|   | 4H   | 3.4              | 3.8  | 3.8  | 4.2  | 4.6  | 10.0           | 10.4 | 10.4 | 10.7 | 11.1 |
|   | 6H   | 3.4              | 3.7  | 3.8  | 4.1  | 4.5  | 9.9            | 10.2 | 10.3 | 10.6 | 11.1 |
|   | 8H   | 3.3              | 3.6  | 3.8  | 4.0  | 4.5  | 9.9            | 10.2 | 10.3 | 10.6 | 11.0 |
|   | 12H  | 3.3              | 3.6  | 3.7  | 4.0  | 4.4  | 9.8            | 10.1 | 10.3 | 10.5 | 11.0 |
| 8H  | 4H   | 3.3              | 3.6  | 3.8  | 4.0  | 4.5  | 9.9            | 10.2 | 10.3 | 10.6 | 11.0 |
|   | 6H   | 3.2              | 3.5  | 3.7  | 3.9  | 4.4  | 9.8            | 10.0 | 10.2 | 10.5 | 10.9 |
|   | 8H   | 3.2              | 3.4  | 3.7  | 3.9  | 4.4  | 9.7            | 9.9  | 10.2 | 10.4 | 10.9 |
|   | 12H  | 3.2              | 3.3  | 3.7  | 3.8  | 4.3  | 9.7            | 9.9  | 10.2 | 10.3 | 10.9 |
| 12H   | 4H   | 3.3              | 3.5  | 3.7  | 4.0  | 4.4  | 9.8            | 10.1 | 10.3 | 10.5 | 11.0 |
|   | 6H   | 3.2              | 3.4  | 3.7  | 3.9  | 4.4  | 9.7            | 9.9  | 10.2 | 10.4 | 10.9 |
|   | 8H   | 3.2              | 3.3  | 3.7  | 3.8  | 4.3  | 9.7            | 9.9  | 10.2 | 10.3 | 10.9 |
| Variations with the observer position at spacing:         |      |                  |      |      |      |      |                |      |      |      |      |
| S =   | 1.0H | 4.3 / -8.1       |      |      |      |      | 3.7 / -5.7     |      |      |      |      |
|   | 1.5H | 6.0 / -8.2       |      |      |      |      | 6.4 / -10.8    |      |      |      |      |
|   | 2.0H | 7.7 / -11.7      |      |      |      |      | 8.4 / -19.4    |      |      |      |      |