Last information update: October 2024

## Product configuration: N309

N309: downlight emission - warm white - DALI





430



N309: downlight emission - warm white - DALI Attention! Code no longer in production

## Technical description

Luminaire consiting of two polycarbonate shells with a photoengraved surface for optimal light diffusion. The shells are closed with specific supports that the suspension cables (accessories) are connected to. The coupling between the shells is made watertight by a silicone gasket located around the edge and a M24 nickel-plated brass cable gland for the power supply cable outlet. The superpure microperforated aluminium surface of the reflector is protected by a microprismatic glass cover. Product complete with warm white 3000K colour tone C.o.B. LEDs positioned on the support plate of the two shells.

### Installation

Ceiling-mounted with suspension cables to be ordered separately.

 Colour
 Weight (Kg)

 Nitric (65)
 5.44

# Mounting

ceiling surface

# Wiring

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations







80





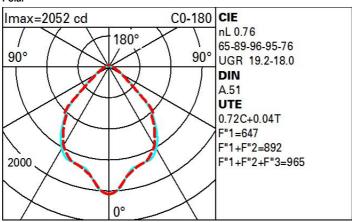




| Technical data                                     |       |                                       |                                 |  |  |
|--|-------|---------------------------------------|---------------------------------|--|--|
| Im system:   | 3799  | Colour temperature [K]:               | 3000                            |  |  |
| W system:  | 35.4  | MacAdam Step:                         | 2                               |  |  |
| Im source:   | 5000  | Life Time LED 1:                      | > 50,000h - L80 - B10 (Ta 25°C) |  |  |
| W source:  | 32    | Lamp code:                            | LED                             |  |  |
| Luminous efficiency (lm/W, real value):            | 107.3 | Number of lamps for optical assembly: | 1                               |  |  |
| Im in emergency mode:                              | -     | ZVEI Code:                            | LED                             |  |  |
| Total light flux at or above an angle of 90° [Lm]: | 196   | Number of optical assemblies:         | 1                               |  |  |
| Light Output Ratio (L.O.R.) [%]:                   | 76    | Control:                              | DALI                            |  |  |

## Polar

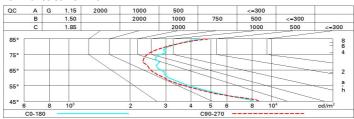
CRI:



## **Utilisation factors**

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 55 | 48 | 44 | 40 | 47 | 43 | 42 | 37 | 52  |
| 1.0  | 59 | 53 | 49 | 46 | 52 | 48 | 47 | 42 | 59  |
| 1.5  | 66 | 61 | 57 | 54 | 59 | 56 | 55 | 50 | 70  |
| 2.0  | 70 | 66 | 63 | 60 | 64 | 61 | 60 | 55 | 77  |
| 2.5  | 72 | 69 | 66 | 64 | 67 | 64 | 63 | 59 | 81  |
| 3.0  | 73 | 71 | 68 | 66 | 69 | 67 | 65 | 61 | 85  |
| 4.0  | 75 | 73 | 71 | 69 | 71 | 69 | 67 | 63 | 88  |
| 5.0  | 76 | 74 | 73 | 71 | 72 | 71 | 69 | 65 | 90  |

## Luminance curve limit



| Corre  | ected UC | R value             | a (at 500) | ) Im bare    | e lamp lu | ım ino us | flux)        |      |      |      |      |
|--|----------|---------------------|------------|--------------|-----------|-----------|--------------|------|------|------|------|
| Rifle  | ct.:     |                     |            |              |           |           |              |      |      |      |      |
| ceil/cav<br>walls<br>work pl.<br>Room dim<br>x y |          | 0.70                | 0.70       | 0.50         | 0.50      | 0.30      | 0.70         | 0.70 | 0.50 | 0.50 | 0.30 |
|  |          | 0.50<br>0.20        | 0.30       | 0.50<br>0.20 | 0.30      | 0.30      | 0.50<br>0.20 | 0.30 | 0.50 | 0.30 | 0.30 |
|  |          |                     |            |              | 0.20      | 0.20      |              | 0.20 |      | 0.20 | 0.20 |
|  |          | viewed<br>crosswise |            |              |           |           | viewed       |      |      |      |      |
|  |          |                     |            |              |           |           | endwise      |      |      |      |      |
| 2H   | 2H       | 16.6                | 17.5       | 17.0         | 17.8      | 18.2      | 16.4         | 17.3 | 16.8 | 17.7 | 18.  |
|  | ЗН       | 17.2                | 18.0       | 17.6         | 18.4      | 18.8      | 16.6         | 17.4 | 17.0 | 17.7 | 18.  |
|  | 4H       | 17.6                | 18.3       | 18.0         | 18.7      | 19.2      | 16.6         | 17.3 | 17.0 | 17.7 | 18.  |
|  | бН       | 18.0                | 18.7       | 18.4         | 19.1      | 19.6      | 16.6         | 17.3 | 17.0 | 17.7 | 18.  |
|  | HS       | 18.2                | 18.9       | 18.7         | 19.3      | 19.8      | 16.6         | 17.3 | 17.0 | 17.7 | 18.  |
|  | 12H      | 18.5                | 19.1       | 18.9         | 19.6      | 20.0      | 16.6         | 17.2 | 17.0 | 17.6 | 18.  |
| 4H   | 2H       | 16.7                | 17.5       | 17.2         | 17.9      | 18.3      | 17.2         | 18.0 | 17.7 | 18.4 | 18.  |
|  | ЗН       | 17.6                | 18.3       | 18.1         | 18.7      | 19.2      | 17.6         | 18.3 | 18.1 | 18.7 | 19.  |
|  | 4H       | 18.2                | 18.8       | 18.7         | 19.3      | 19.8      | 17.8         | 18.4 | 18.3 | 18.8 | 19.  |
|  | бН       | 18.8                | 19.3       | 19.4         | 19.8      | 20.4      | 18.0         | 18.5 | 18.5 | 19.0 | 19.  |
|  | HS       | 19.2                | 19.6       | 19.7         | 20.1      | 20.7      | 18.0         | 18.5 | 18.6 | 19.0 | 19.  |
|  | 12H      | 19.5                | 20.0       | 20.1         | 20.5      | 21.1      | 18.1         | 18.5 | 18.6 | 19.0 | 19.  |
| ВН   | 4H       | 18.5                | 18.9       | 19.0         | 19.4      | 20.0      | 18.7         | 19.2 | 19.3 | 19.7 | 20.  |
|  | 6H       | 19.3                | 19.7       | 19.9         | 20.3      | 20.9      | 19.1         | 19.5 | 19.7 | 20.0 | 20.  |
|  | HS       | 19.9                | 20.2       | 20.4         | 20.8      | 21.4      | 19.3         | 19.7 | 19.9 | 20.2 | 20.  |
|  | 12H      | 20.4                | 20.7       | 21.0         | 21.3      | 21.9      | 19.6         | 19.9 | 20.2 | 20.4 | 21.  |
| 12H  | 4H       | 18.5                | 18.9       | 19.0         | 19.4      | 20.0      | 19.2         | 19.6 | 19.7 | 20.1 | 20.  |
|  | бН       | 19.5                | 19.8       | 20.0         | 20.3      | 21.0      | 19.7         | 20.0 | 20.2 | 20.6 | 21.  |
|  | HS       | 20.1                | 20.4       | 20.7         | 21.0      | 21.6      | 20.0         | 20.3 | 20.6 | 20.8 | 21.  |
| Varia  | tions wi | th the ot           | serverp    | osition      | at spacin | g:        | _            |      |      |      |      |
| S =  | 1.0H     | 0.4 / -0.4          |            |              |           |           | 0.5 / -0.5   |      |      |      |      |
|  | 1.5H     | 0.8 / -0.7          |            |              |           |           | 0.9 / -0.9   |      |      |      |      |
|  | 2.0H     | 1.5 / -1.0          |            |              |           |           | 1.6 / -1.1   |      |      |      |      |