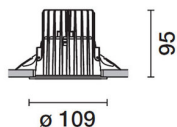


Última actualización de la información: Abril 2025

**Configuraciones productos: P509**

P509: Empotrable circular fijo - neutral white - óptica blanca - DALI

**Código producto**

P509: Empotrable circular fijo - neutral white - óptica blanca - DALI

**Descripción**

Luminaria circular fija para usar con lámpara LED de tecnología C.o.B. Versión con marco para instalación en apoyo. Reflector pintado en blanco con capa de protección antirrayado. Cuerpo de aluminio fundido a presión y sistema de disipación pasiva. Luminaria equipada con led en tono de color neutral white (4000K). Emisión luminosa de luz general.

**Instalación**

Empotrable mediante los correspondientes muelles de torsión que permiten una instalación fácil en falsos techos con espesor de 1 mm a 20 mm.

**Colores**

Blanco (01)

**Peso (Kg)**

0.65

**Montaje**

empotrable en el techo

**Equipo**

Luminaria equipada con alimentador DALI

Se conforma con EN60598-1 y regulaciones pertinentes



IP20

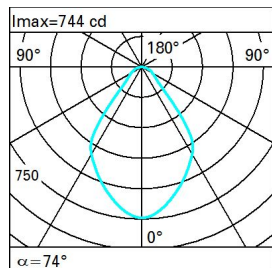
IP54

En la parte visible del producto una vez instalado

**Datos técnicos**

|   |      |                                      |                                 |
|---|------|--------------------------------------|---------------------------------|
| lm de sistema:  | 1015 | CRI (mínimo):                        | 80                              |
| W de sistema:   | 11.5 | Temperatura de color [K]:            | 4000                            |
| lm de la fuente:  | 1550 | MacAdam Step:                        | 2                               |
| W de la fuente:   | 8.9  | Life time (vida útil) LED 1:         | > 50,000h - L90 - B10 (Ta 25°C) |
| Eficiencia luminosa (lm/W, valor del sistema):              | 88.3 | Código de lámpara:                   | LED                             |
| lm en modo emergencia:                                      | -    | Número de lámparas por grupo óptico: | 1                               |
| Flujo total de emisión en un ángulo de 90° o superior [Lm]: | 0    | Código ZVEI:                         | LED                             |
| Light Output Ratio (L.O.R.) [%]:                            | 65   | Número de grupos ópticos:            | 1                               |
| Ángulo de apertura del haz de luz [°]:                      | 74°  | Control:                             | DALI-2                          |

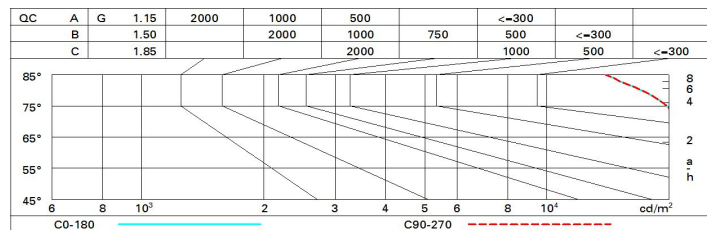
**Polar**

|  | CIE  |     |     |     | Lux  |  |  |  |
|---|--|-----|-----|-----|------|--|--|--|
|   | nL 0.65<br>76-92-98-100-65<br>UGR 25.1-24.8                  |     |     |     | h    |  |  |  |
|   | DIN A.61   |     |     |     | d    |  |  |  |
|   | UTE 0.65B+0.00T<br>F*1=764<br>F*1+F*2=918<br>F*1+F*2+F*3=983 |     |     |     | Em   |  |  |  |
|   | α = 74°  |     |     |     | Emax |  |  |  |
|   | 1  | 1.5 | 503 | 744 |      |  |  |  |
|   | 2  | 3   | 126 | 186 |      |  |  |  |
|   | 3  | 4.5 | 56  | 83  |      |  |  |  |
|   | 4  | 6   | 31  | 47  |      |  |  |  |

# Coefficientes de uso

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 52 | 47 | 44 | 41 | 46 | 43 | 43 | 40 | 61  |
| 1.0  | 55 | 51 | 48 | 45 | 50 | 47 | 47 | 44 | 67  |
| 1.5  | 60 | 57 | 54 | 52 | 56 | 53 | 53 | 50 | 76  |
| 2.0  | 63 | 60 | 58 | 56 | 59 | 57 | 57 | 54 | 82  |
| 2.5  | 65 | 63 | 61 | 59 | 61 | 60 | 59 | 57 | 86  |
| 3.0  | 66 | 64 | 63 | 61 | 63 | 62 | 61 | 58 | 89  |
| 4.0  | 67 | 66 | 65 | 64 | 65 | 64 | 63 | 60 | 92  |
| 5.0  | 68 | 67 | 66 | 65 | 66 | 65 | 64 | 62 | 94  |

## Curva límite de luminancia



## Diagrama UGR

| Corrected UGR values (at 1550 lm bare lamp luminous flux)     |      |                     |      |      |      |      |                   |      |      |      |      |
|---|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceil/cav<br>walls<br>work pl.<br>Room dim<br>x y |      | viewed<br>crosswise |      |      |      |      | viewed<br>endwise |      |      |      |      |
|   |      | 0.70                | 0.70 | 0.50 | 0.50 | 0.30 | 0.70              | 0.70 | 0.50 | 0.50 | 0.30 |
|   |      | 0.50                | 0.30 | 0.50 | 0.30 | 0.30 | 0.50              | 0.30 | 0.50 | 0.30 | 0.30 |
|   |      | 0.20                | 0.20 | 0.20 | 0.20 | 0.20 | 0.20              | 0.20 | 0.20 | 0.20 | 0.20 |
| 2H  | 2H   | 22.6                | 23.5 | 22.9 | 23.7 | 24.0 | 22.6              | 23.5 | 22.9 | 23.7 | 24.0 |
|   | 3H   | 23.5                | 24.3 | 23.8 | 24.6 | 24.9 | 22.8              | 23.6 | 23.2 | 23.9 | 24.2 |
|   | 4H   | 23.9                | 24.6 | 24.2 | 24.9 | 25.2 | 22.9              | 23.7 | 23.3 | 24.0 | 24.3 |
|   | 6H   | 24.2                | 24.9 | 24.6 | 25.2 | 25.5 | 22.9              | 23.6 | 23.3 | 23.9 | 24.3 |
|   | 8H   | 24.3                | 25.0 | 24.7 | 25.3 | 25.6 | 22.9              | 23.6 | 23.3 | 23.9 | 24.3 |
|   | 12H  | 24.3                | 25.0 | 24.7 | 25.3 | 25.7 | 22.9              | 23.5 | 23.3 | 23.9 | 24.2 |
| 4H  | 2H   | 22.9                | 23.7 | 23.3 | 24.0 | 24.3 | 23.9              | 24.6 | 24.2 | 24.9 | 25.2 |
|   | 3H   | 24.0                | 24.7 | 24.4 | 25.0 | 25.4 | 24.3              | 25.0 | 24.7 | 25.3 | 25.7 |
|   | 4H   | 24.6                | 25.1 | 25.0 | 25.5 | 25.9 | 24.6              | 25.1 | 25.0 | 25.5 | 25.9 |
|   | 6H   | 25.0                | 25.5 | 25.4 | 25.9 | 26.3 | 24.7              | 25.2 | 25.1 | 25.6 | 26.0 |
|   | 8H   | 25.1                | 25.6 | 25.6 | 26.0 | 26.4 | 24.8              | 25.2 | 25.2 | 25.6 | 26.1 |
|   | 12H  | 25.2                | 25.6 | 25.7 | 26.0 | 26.5 | 24.7              | 25.2 | 25.2 | 25.6 | 26.1 |
| 8H  | 4H   | 24.8                | 25.2 | 25.2 | 25.6 | 26.1 | 25.1              | 25.6 | 25.6 | 26.0 | 26.4 |
|   | 6H   | 25.3                | 25.7 | 25.8 | 26.1 | 26.6 | 25.4              | 25.8 | 25.9 | 26.2 | 26.7 |
|   | 8H   | 25.5                | 25.8 | 26.0 | 26.3 | 26.8 | 25.5              | 25.8 | 26.0 | 26.3 | 26.8 |
|   | 12H  | 25.6                | 25.9 | 26.1 | 26.4 | 26.9 | 25.6              | 25.8 | 26.1 | 26.3 | 26.8 |
| 12H   | 4H   | 24.7                | 25.2 | 25.2 | 25.6 | 26.1 | 25.2              | 25.6 | 25.7 | 26.0 | 26.5 |
|   | 6H   | 25.3                | 25.7 | 25.8 | 26.1 | 26.6 | 25.5              | 25.8 | 26.0 | 26.3 | 26.8 |
|   | 8H   | 25.6                | 25.8 | 26.1 | 26.3 | 26.8 | 25.6              | 25.9 | 26.1 | 26.4 | 26.9 |
| Variations with the observer position at spacing:             |      |                     |      |      |      |      |                   |      |      |      |      |
| S =   | 1.0H | 0.9 / -0.6          |      |      |      |      | 0.9 / -0.6        |      |      |      |      |
|   | 1.5H | 1.8 / -0.9          |      |      |      |      | 1.8 / -0.9        |      |      |      |      |
|   | 2.0H | 3.0 / -1.1          |      |      |      |      | 3.0 / -1.1        |      |      |      |      |