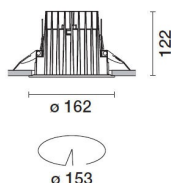
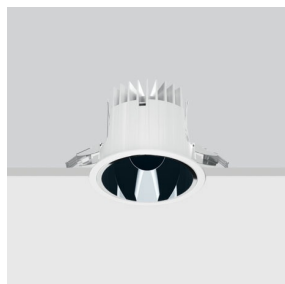


### Configuraciones productos: N012



N012: Empotrable circular fijo - Ø 153 mm - warm white - óptica medium - UGR<19

Luminaria circular fija para usar con lámpara LED de tecnología C.o.B. Versión con marco para instalación en apoyo. Reflector metalizado con vapores de aluminio al vacío con capa de protección antirayado. Cuerpo de aluminio fundido a presión y sistema de disipación pasiva. Luminaria equipada con led en tono de color warm white (3000K). Emisión luminosa de luz general con luminancia controlada UGR<19 1500 cd/m<sup>2</sup> α=65° óptica medium.

Empotrable mediante los correspondientes muelles de torsión que permiten una instalación fácil en falsos techos con espesor de 1 mm a 25 mm.

| Colores              | Peso (Kg) |
|----------------------|-----------|
| Blanco/Aluminio (39) | 1.22      |

empotrable en el techo

Luminaria equipada con alimentador DALI

Se conforma con EN60598-1 y regulaciones pertinentes



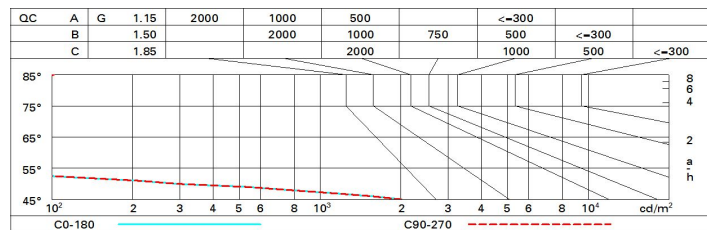
|                                                             |       |                                      |                                 |
|-------------------------------------------------------------|-------|--------------------------------------|---------------------------------|
| Im de sistema:                                              | 2820  | CRI (mínimo):                        | 80                              |
| W de sistema:                                               | 24.9  | Temperatura de color [K]:            | 3000                            |
| Im de la fuente:                                            | 3250  | MacAdam Step:                        | 2                               |
| W de la fuente:                                             | 22    | Life time (vida útil) LED 1:         | > 50,000h - L90 - B10 (Ta 25°C) |
| Eficiencia luminosa (lm/W, valor del sistema):              | 113.2 | Código de lámpara:                   | LED                             |
| Im 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.) [%]:                            | 87    | Número de grupos ópticos:            | 1                               |
| Ángulo de apertura del haz de luz [°]:                      | 24°   | Control:                             | DALI-2                          |

|   |                                                                                                                                                                                                                                                                |            |           |                        |  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------------------------|--|
|   | <b>Imax=10961 cd</b><br><b>CIE</b><br>nL 0.87<br>99-100-100-100-87<br>UGR 15.7-15.7<br><b>DIN</b><br>A.61<br><b>UTE</b><br>0.87A+0.00T<br>F*1=993<br>F*1+F*2=1000<br>F*1+F*2+F*3=1000<br><b>CIBSE</b><br>LG3 Lc1500 cd/m² at 65°<br>UGR<16   Lc1500 cd/mq @65° | <b>Lux</b> |           |                        |  |
|   | <b>h</b>                                                                                                                                                                                                                                                       | <b>d</b>   | <b>Em</b> | <b>E<sub>max</sub></b> |  |
|   | 2                                                                                                                                                                                                                                                              | 0.9        | 2088      | 2740                   |  |
|   | 4                                                                                                                                                                                                                                                              | 1.7        | 522       | 685                    |  |
|   | 6                                                                                                                                                                                                                                                              | 2.6        | 232       | 304                    |  |
| 8 | 3.4                                                                                                                                                                                                                                                            | 130        | 171       |                        |  |

# Coefficientes de uso

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 78 | 74 | 71 | 69 | 73 | 71 | 70 | 68 | 78  |
| 1.0  | 82 | 78 | 75 | 73 | 77 | 75 | 74 | 72 | 83  |
| 1.5  | 86 | 83 | 81 | 79 | 82 | 80 | 79 | 77 | 88  |
| 2.0  | 88 | 86 | 85 | 83 | 85 | 84 | 83 | 80 | 93  |
| 2.5  | 90 | 89 | 87 | 86 | 87 | 86 | 85 | 83 | 96  |
| 3.0  | 91 | 90 | 89 | 88 | 89 | 88 | 87 | 85 | 98  |
| 4.0  | 92 | 91 | 91 | 90 | 90 | 89 | 88 | 86 | 99  |
| 5.0  | 93 | 92 | 92 | 91 | 91 | 90 | 89 | 87 | 100 |

## Curva límite de luminancia



## Diagrama UGR

| Corrected UGR values (at 3250 lm bare lamp luminous flux)        |      |                     |      |      |      |      |                   |      |      |      |      |
|------------------------------------------------------------------|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceiling/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                | 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 |
|                                                                  |      | viewed<br>crosswise |      |      |      |      | viewed<br>endwise |      |      |      |      |
| 2H                                                               | 2H   | 16.6                | 18.4 | 17.0 | 18.7 | 19.0 | 16.6              | 18.4 | 17.0 | 18.7 | 19.0 |
|                                                                  | 3H   | 16.5                | 17.8 | 16.8 | 18.1 | 18.4 | 16.5              | 17.8 | 16.8 | 18.1 | 18.4 |
|                                                                  | 4H   | 16.4                | 17.5 | 16.8 | 17.9 | 18.2 | 16.4              | 17.5 | 16.8 | 17.9 | 18.2 |
|                                                                  | 6H   | 16.3                | 17.4 | 16.7 | 17.7 | 18.1 | 16.3              | 17.4 | 16.7 | 17.7 | 18.1 |
|                                                                  | 8H   | 16.3                | 17.3 | 16.6 | 17.7 | 18.0 | 16.3              | 17.3 | 16.6 | 17.7 | 18.0 |
|                                                                  | 12H  | 16.2                | 17.3 | 16.6 | 17.6 | 18.0 | 16.2              | 17.3 | 16.6 | 17.6 | 18.0 |
| 4H                                                               | 2H   | 16.4                | 17.5 | 16.8 | 17.9 | 18.2 | 16.4              | 17.5 | 16.8 | 17.9 | 18.2 |
|                                                                  | 3H   | 16.2                | 17.3 | 16.6 | 17.6 | 18.0 | 16.2              | 17.3 | 16.6 | 17.6 | 18.0 |
|                                                                  | 4H   | 16.1                | 17.1 | 16.5 | 17.5 | 17.9 | 16.1              | 17.1 | 16.5 | 17.5 | 17.9 |
|                                                                  | 6H   | 15.9                | 17.2 | 16.3 | 17.6 | 18.0 | 15.9              | 17.2 | 16.3 | 17.6 | 18.0 |
|                                                                  | 8H   | 15.7                | 17.2 | 16.2 | 17.7 | 18.1 | 15.7              | 17.2 | 16.2 | 17.7 | 18.1 |
|                                                                  | 12H  | 15.6                | 17.2 | 16.1 | 17.7 | 18.2 | 15.6              | 17.2 | 16.1 | 17.7 | 18.2 |
| 8H                                                               | 4H   | 15.7                | 17.2 | 16.2 | 17.7 | 18.1 | 15.7              | 17.2 | 16.2 | 17.7 | 18.1 |
|                                                                  | 6H   | 15.6                | 17.1 | 16.1 | 17.6 | 18.1 | 15.6              | 17.1 | 16.1 | 17.6 | 18.1 |
|                                                                  | 8H   | 15.6                | 16.9 | 16.1 | 17.4 | 17.9 | 15.6              | 16.9 | 16.1 | 17.4 | 17.9 |
|                                                                  | 12H  | 15.6                | 16.6 | 16.1 | 17.1 | 17.6 | 15.6              | 16.6 | 16.1 | 17.1 | 17.6 |
| 12H                                                              | 4H   | 15.6                | 17.2 | 16.1 | 17.7 | 18.2 | 15.6              | 17.2 | 16.1 | 17.7 | 18.2 |
|                                                                  | 6H   | 15.6                | 16.9 | 16.1 | 17.4 | 17.9 | 15.6              | 16.9 | 16.1 | 17.4 | 17.9 |
|                                                                  | 8H   | 15.6                | 16.6 | 16.1 | 17.1 | 17.6 | 15.6              | 16.6 | 16.1 | 17.1 | 17.6 |
| Variations with the observer position at spacing:                |      |                     |      |      |      |      |                   |      |      |      |      |
| S =                                                              | 1.0H | 5.1 / -31.3         |      |      |      |      | 5.1 / -31.3       |      |      |      |      |
|                                                                  | 1.5H | 7.9 / -31.6         |      |      |      |      | 7.9 / -31.6       |      |      |      |      |
|                                                                  | 2.0H | 9.9 / -31.8         |      |      |      |      | 9.9 / -31.8       |      |      |      |      |