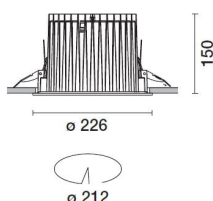


### Configuraciones productos: N224

N224: Empotrable circular fijo - Ø 212 mm - neutral white - óptica flood - UGR<19



N224: Empotrable circular fijo - Ø 212 mm - neutral white - óptica flood - UGR<19 **¡Advertencia! Código fuera de producción**

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 neutral white (4000K). Emisión luminosa de luz general con luminancia controlada UGR<19 150 cd/m<sup>2</sup> α>65° óptica flood.

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) | 1.95      |

empotrable en el techo

**Equipo**  
Luminaria equipada con alimentador electrónico

Se conforma con EN60598-1 y regulaciones pertinentes



IP20

IP54

En la parte visible del producto  
una vez instalado



|                |      |
|----------------|------|
| Im de sistema: | 4378 |
|----------------|------|

|                 |      |
|-----------------|------|
| $W$ de sistema: | 35,4 |
|-----------------|------|

|                  |      |
|------------------|------|
| W de sistenia:   | 33.4 |
| Im de la fuente: | 5150 |

|                   |      |
|-------------------|------|
| ini de la fuente: | 3150 |
| W de la fuente:   | 31   |

|                            |       |
|----------------------------|-------|
| W de la fuente.            | 31    |
| Eficiencia luminosa (lm/W) | 123.7 |

valor del sistema):

Im en modo emergencia: -

Flujo total de emisión en un 0

ângulo de  $90^\circ$  o superior

[Lm]:

Light Output Ratio (L.O.R.) 85

[%]:

Ángulo de apertura del haz  $26^\circ$

de luz [°]:

|               |    |
|---------------|----|
| GRI (mínimo): | 80 |
|---------------|----|

|                           |      |
|---------------------------|------|
| Temperatura de color [K]: | 4000 |
|---------------------------|------|

MacAdam Step: 2

|                              |   |
|------------------------------|---|
| MacAdams Step.               | 2 |
| Life time (vida útil) LED 1: | 3 |

Código de lámpara: LED

|                        |     |
|------------------------|-----|
| Código de lâmpada.     | LED |
| Número de lâmparas por | 1   |

Número de lamparas por grupo óptico:

Código ZVEI: LED

Número de grupos ópticos: 1

Numero de grupos opticos.

|   |                                                                                                                                                                                                                                                                              |            |      |      |                  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|------------------|
|   | <b>Imax</b> =16922 cd<br><b>CIE</b><br>nL 0.85<br>100-100-100-100-85<br>UGR 11.7-11.7<br><b>DIN</b><br>A.61<br><b>UTE</b><br>0.85A+0.00T<br>F*1=999<br>F*1+F*2=1000<br>F*1+F*2+F*3=1000<br><b>CIBSE</b><br>LG3 L<1500 cd/m <sup>2</sup> at 65°<br>UGR<16   L<1500 cd/mq @65° | <b>Lux</b> |      |      |                  |
|   |                                                                                                                                                                                                                                                                              | h          | d    | Em   | E <sub>max</sub> |
|   | 2                                                                                                                                                                                                                                                                            | 0.9        | 3538 | 4229 |                  |
|   | 4                                                                                                                                                                                                                                                                            | 1.8        | 885  | 1057 |                  |
|   | 6                                                                                                                                                                                                                                                                            | 2.8        | 393  | 470  |                  |
| 8 | 3.7                                                                                                                                                                                                                                                                          | 221        | 264  |      |                  |

Coefficientes de uso

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 77 | 73 | 70 | 68 | 72 | 70 | 69 | 67 | 78  |
| 1.0  | 80 | 77 | 74 | 72 | 76 | 74 | 73 | 71 | 83  |
| 1.5  | 84 | 81 | 79 | 78 | 80 | 79 | 78 | 75 | 89  |
| 2.0  | 87 | 85 | 83 | 82 | 84 | 82 | 81 | 79 | 93  |
| 2.5  | 88 | 87 | 86 | 85 | 86 | 85 | 84 | 81 | 96  |
| 3.0  | 89 | 88 | 87 | 87 | 87 | 86 | 85 | 83 | 98  |
| 4.0  | 90 | 90 | 89 | 89 | 88 | 88 | 87 | 84 | 99  |
| 5.0  | 91 | 90 | 90 | 90 | 89 | 89 | 87 | 85 | 100 |

Diagrama UGR

| Corrected UGR values (at 5150 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  | 12.6             | 14.6         | 13.0 | 14.9 | 15.2 | 12.6           | 14.6 | 13.0 | 14.9 | 15.2 |
|                                                           | 3H  | 12.5             | 13.9         | 12.9 | 14.2 | 14.6 | 12.5           | 13.9 | 12.9 | 14.2 | 14.6 |
|                                                           | 4H  | 12.4             | 13.7         | 12.8 | 14.0 | 14.3 | 12.4           | 13.7 | 12.8 | 14.0 | 14.3 |
|                                                           | 6H  | 12.4             | 13.4         | 12.7 | 13.8 | 14.1 | 12.4           | 13.4 | 12.7 | 13.8 | 14.1 |
|                                                           | 8H  | 12.3             | 13.4         | 12.7 | 13.7 | 14.1 | 12.3           | 13.4 | 12.7 | 13.7 | 14.1 |
|                                                           | 12H | 12.3             | 13.3         | 12.7 | 13.7 | 14.0 | 12.3           | 13.3 | 12.7 | 13.7 | 14.0 |
| 4H                                                        | 2H  | 12.4             | 13.7         | 12.8 | 14.0 | 14.3 | 12.4           | 13.7 | 12.8 | 14.0 | 14.3 |
|                                                           | 3H  | 12.3             | 13.3         | 12.7 | 13.7 | 14.0 | 12.3           | 13.3 | 12.7 | 13.7 | 14.0 |
|                                                           | 4H  | 12.1             | 13.1         | 12.6 | 13.5 | 13.9 | 12.1           | 13.1 | 12.6 | 13.5 | 13.9 |
|                                                           | 6H  | 11.9             | 13.3         | 12.3 | 13.7 | 14.2 | 11.9           | 13.3 | 12.3 | 13.7 | 14.2 |
|                                                           | 8H  | 11.7             | 13.4         | 12.2 | 13.8 | 14.3 | 11.7           | 13.4 | 12.2 | 13.8 | 14.3 |
|                                                           | 12H | 11.6             | 13.4         | 12.1 | 13.9 | 14.4 | 11.6           | 13.4 | 12.1 | 13.9 | 14.4 |
| 8H                                                        | 4H  | 11.7             | 13.4         | 12.2 | 13.8 | 14.3 | 11.7           | 13.4 | 12.2 | 13.8 | 14.3 |
|                                                           | 6H  | 11.6             | 13.2         | 12.1 | 13.7 | 14.2 | 11.6           | 13.2 | 12.1 | 13.7 | 14.2 |
|                                                           | 8H  | 11.6             | 13.0         | 12.1 | 13.5 | 14.0 | 11.6           | 13.0 | 12.1 | 13.5 | 14.0 |
|                                                           | 12H | 11.7             | 12.7         | 12.2 | 13.2 | 13.7 | 11.7           | 12.7 | 12.2 | 13.2 | 13.7 |
| 12H                                                       | 4H  | 11.6             | 13.4         | 12.1 | 13.9 | 14.4 | 11.6           | 13.4 | 12.1 | 13.9 | 14.4 |
|                                                           | 6H  | 11.6             | 13.0         | 12.1 | 13.5 | 14.0 | 11.6           | 13.0 | 12.1 | 13.5 | 14.0 |
|                                                           | 8H  | 11.7             | 12.7         | 12.2 | 13.2 | 13.7 | 11.7           | 12.7 | 12.2 | 13.2 | 13.7 |
| Variations with the observer position at spacing:         |     |                  |              |      |      |      |                |      |      |      |      |
| S =                                                       |     | 1.0H             | 6.7 / -31.5  |      |      |      | 6.7 / -31.5    |      |      |      |      |
|                                                           |     | 1.5H             | 9.5 / -31.8  |      |      |      | 9.5 / -31.8    |      |      |      |      |
|                                                           |     | 2.0H             | 11.5 / -32.1 |      |      |      | 11.5 / -32.1   |      |      |      |      |