



## DIMENSIONES



## ACCESORIOS



DRIVER OPTIONS

## PREMIOS

reddot winner 2023  
lighting design

## PRODUCTO

|            |                                          |
|------------|------------------------------------------|
| Nombre     | BLACK FOSTER MICRO SURFACE 2X2 3000K WTW |
| Referencia | A4593001WTW                              |
| Color      | Blanco Texturado - Cromo                 |
| RAL        | 9016                                     |
| Categoría  | SURFACE                                  |

## FUENTE DE LUZ

|                                  |                 |
|----------------------------------|-----------------|
| Tipo                             | LED             |
| Flujo Luminoso                   | 640 lm          |
| Temperatura de color             | 3000 K          |
| Estabilidad cromática            | MacAdam Step 3  |
| Índice de reproducción cromática | CRI>90          |
| Potencia                         | 5,6 W           |
| Corriente                        | 500 mA          |
| Eficacia                         | 114 lm/W        |
| Horas de Vida del LED            | L90B10 >60.000h |

## LUMINARIA | DATOS FOTOMÉTRICOS

|                       |     |
|-----------------------|-----|
| Eficiencia Lumínica   | 87% |
| Ángulo del haz de luz | 37° |

## LUMINARIA | DATOS ELÉCTRICOS

|                              |                                    |
|------------------------------|------------------------------------|
| Driver                       | Excluido: Debe colocarse en remoto |
| Regulación                   | No Dim / DALI                      |
| Clase de seguridad eléctrica | II                                 |

## OTROS DATOS

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| Estanqueidad          | IP20                                                        |
| Control inalámbrico   | Consultar                                                   |
| Peso                  | 60 g                                                        |
| Peso con embalaje     | 100 g                                                       |
| Dimensiones embalaje  | 122x85x31 mm                                                |
| Unidades por embalaje | 1                                                           |
| Materiales            | Aluminio / Acrilonitrilo Butadieno Estireno / Policarbonato |



Black Foster Micro Surface adquiere una presencia liviana en el interiorismo gracias a su pequeño tamaño y a su bajísimo deslumbramiento, que le ayuda a no adquirir demasiado protagonismo. El downlight conserva unos altos niveles de apantallamiento, llevando el confort lumínico a otro nivel en términos de miniaturización.

DIAGRAMA POLAR

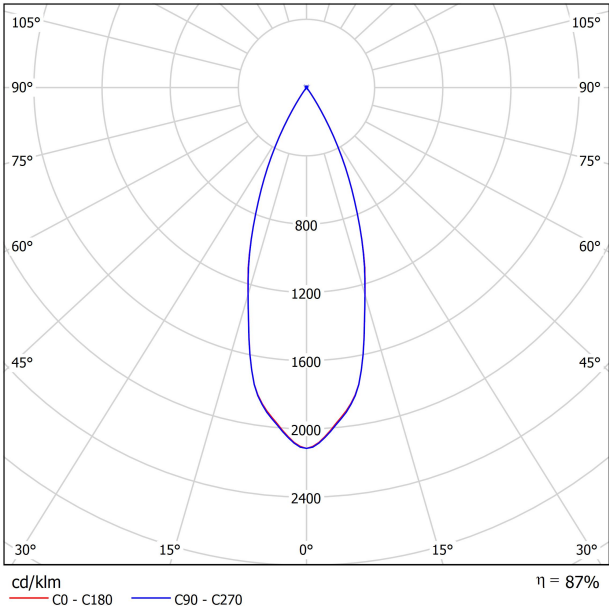
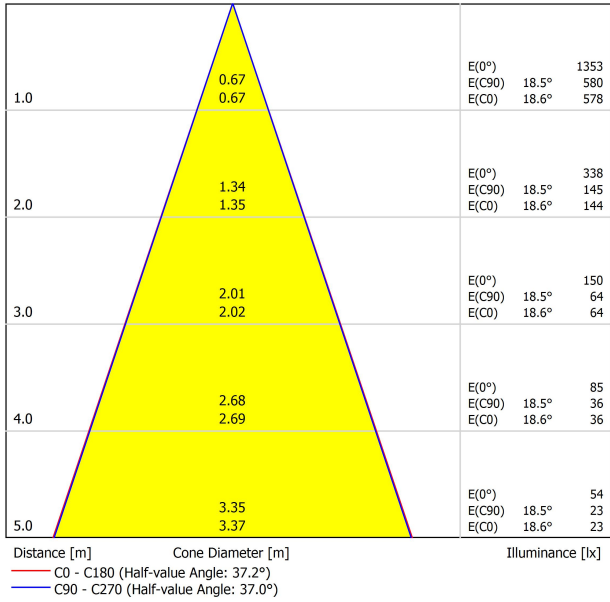


DIAGRAMA CÓNICO



UGR

| Glare Evaluation According to UGR                                |     |                                                |      |      |      |      |                                         |      |      |      |      |    |
|------------------------------------------------------------------|-----|------------------------------------------------|------|------|------|------|-----------------------------------------|------|------|------|------|----|
|                                                                  |     | 70                                             | 70   | 50   | 50   | 30   | 70                                      | 70   | 50   | 50   | 30   | 30 |
| p Ceiling                                                        |     | 70                                             | 70   | 50   | 50   | 30   | 70                                      | 70   | 50   | 50   | 30   | 30 |
| p Walls                                                          |     | 50                                             | 30   | 50   | 30   | 30   | 50                                      | 30   | 50   | 30   | 30   | 30 |
| p Floor                                                          |     | 20                                             | 20   | 20   | 20   | 20   | 20                                      | 20   | 20   | 20   | 20   | 20 |
| Room Size X Y                                                    |     | Viewing direction at right angles to lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |    |
| 2H                                                               | 2H  | -4.2                                           | -3.6 | -4.0 | -3.4 | -3.2 | -4.9                                    | -4.2 | -4.6 | -4.0 | -3.9 |    |
|                                                                  | 3H  | -1.1                                           | -0.5 | -0.8 | -0.3 | -0.0 | -1.0                                    | -0.4 | -0.7 | -0.2 | 0.0  |    |
|                                                                  | 4H  | 0.6                                            | 1.1  | 0.9  | 1.4  | 1.6  | 1.0                                     | 1.5  | 1.3  | 1.8  | 2.0  |    |
|                                                                  | 6H  | 2.9                                            | 3.4  | 3.2  | 3.6  | 3.9  | 3.1                                     | 3.6  | 3.4  | 3.9  | 4.2  |    |
|                                                                  | 8H  | 4.1                                            | 4.5  | 4.4  | 4.8  | 5.1  | 4.1                                     | 4.6  | 4.5  | 4.9  | 5.2  |    |
| 4H                                                               | 2H  | -3.3                                           | -2.8 | -3.0 | -2.5 | -2.3 | -3.8                                    | -3.3 | -3.5 | -3.0 | -2.8 |    |
|                                                                  | 3H  | 0.1                                            | 0.6  | 0.4  | 0.9  | 1.2  | 0.2                                     | 0.6  | 0.5  | 0.9  | 1.2  |    |
|                                                                  | 4H  | 2.0                                            | 2.4  | 2.3  | 2.7  | 3.0  | 2.4                                     | 2.8  | 2.7  | 3.1  | 3.4  |    |
|                                                                  | 6H  | 4.5                                            | 4.8  | 4.9  | 5.2  | 5.5  | 4.7                                     | 5.1  | 5.1  | 5.4  | 5.8  |    |
|                                                                  | 8H  | 5.8                                            | 6.1  | 6.2  | 6.5  | 6.9  | 5.8                                     | 6.1  | 6.2  | 6.5  | 6.9  |    |
| 8H                                                               | 2H  | 7.0                                            | 7.3  | 7.5  | 7.7  | 8.1  | 7.1                                     | 7.3  | 7.5  | 7.7  | 8.1  |    |
|                                                                  | 4H  | 2.8                                            | 3.1  | 3.3  | 3.5  | 3.9  | 3.1                                     | 3.4  | 3.5  | 3.8  | 4.2  |    |
|                                                                  | 6H  | 5.5                                            | 5.7  | 6.0  | 6.1  | 6.6  | 5.8                                     | 6.0  | 6.2  | 6.4  | 6.8  |    |
|                                                                  | 8H  | 7.0                                            | 7.2  | 7.5  | 7.6  | 8.1  | 7.0                                     | 7.2  | 7.5  | 7.6  | 8.1  |    |
|                                                                  | 12H | 8.4                                            | 8.6  | 8.9  | 9.0  | 9.5  | 8.4                                     | 8.6  | 8.9  | 9.0  | 9.5  |    |
| 12H                                                              | 4H  | 3.1                                            | 3.4  | 3.5  | 3.8  | 4.2  | 3.4                                     | 3.6  | 3.8  | 4.0  | 4.4  |    |
|                                                                  | 6H  | 5.9                                            | 6.0  | 6.3  | 6.5  | 6.9  | 6.1                                     | 6.2  | 6.5  | 6.7  | 7.1  |    |
|                                                                  | 8H  | 7.4                                            | 7.5  | 7.9  | 8.0  | 8.5  | 7.4                                     | 7.5  | 7.9  | 8.0  | 8.5  |    |
| Variation of the observer position for the luminaire distances S |     |                                                |      |      |      |      |                                         |      |      |      |      |    |
| S = 1.0H                                                         |     | +6.0 / -4.4                                    |      |      |      |      | +6.0 / -4.3                             |      |      |      |      |    |
| S = 1.5H                                                         |     | +8.8 / -4.8                                    |      |      |      |      | +8.7 / -4.7                             |      |      |      |      |    |
| S = 2.0H                                                         |     | +10.8 / -5.4                                   |      |      |      |      | +10.8 / -5.0                            |      |      |      |      |    |
| Standard table                                                   |     | BK01                                           |      |      |      |      | BK01                                    |      |      |      |      |    |
| Correction                                                       |     | -4.5                                           |      |      |      |      | -4.6                                    |      |      |      |      |    |
| Summand                                                          |     |                                                |      |      |      |      |                                         |      |      |      |      |    |
| Corrected Glare Indices referring to 640lm Total Luminous Flux   |     |                                                |      |      |      |      |                                         |      |      |      |      |    |



| DRIVER OPTIONS*                                                                                 |            | Black Foster<br>Micro Surface 5 | Black Foster<br>Micro Surface 2x2 | Black Foster<br>Micro Surface 3x3 |
|-------------------------------------------------------------------------------------------------|------------|---------------------------------|-----------------------------------|-----------------------------------|
| <br>NO DIM   | 0434-00-42 | 1 to 2                          | 1 to 3                            |                                   |
|                                                                                                 | 0434-01-53 |                                 |                                   | 1                                 |
| <br>DIM DALI | 0434-00-44 | 1 to 2                          | 1 to 3                            |                                   |
|                                                                                                 | 0434-01-54 |                                 |                                   | 1                                 |

220  
240 V~

\* Driver must be placed on remote



Fuente de luz (LED) reemplazable por un profesional autorizado

Replaceable (LED only) light source by an authorized professional.

Source lumineuse (LED) remplaçable par un professionnel agréé

Sorgente luminosa (LED) sostituibile da parte di un professionista autorizzato

Austauschbare (LED) Lichtquelle durch einen autorisierten Fachmann



Equipo de control reemplazable por un profesional autorizado

Replaceable control gear by an authorized professional

Dispositif de commande remplaçable par un professionnel agréé

Alimentatore sostituibile da parte di un professionista autorizzato

Auswechselbares Betriebsgerät durch autorisierten Fachmann

INSTRUCCIONES PARA EL FINAL DE VIDA Y LA ELIMINACIÓN LOS COMPONENTES  
INSTRUCTIONS ON END-OF-LIFE AND COMPONENT DISPOSAL  
INSTRUCTIONS POUR LA GESTION DES COMPOSANTS EN FIN DE VIE ET LEUR MISE AU REBUT  
ISTRUZIONI PER IL FINE VITA E LO SMALTIMENTO DEI COMPONENTI  
ANWEISUNGEN ZUR ENTSORGUNG DER LEUCHTENKOMPONENTEN



Interrumpir la alimentación del aparato  
Cut the power supply to the luminaire  
Couper l'alimentation du luminaire  
Interrompere l'alimentazione dell'apparecchio  
Stromversorgung der Leuchte unterbrechen



Quitar la(s) fuente(s) de luz para el desecho  
Remove light source(s) for disposal  
Retirer la (les) source(s) lumineuse(s) pour l'élimination  
Rimuovere la/le sorgente/e di luce per lo smaltimento  
Lichtquelle(n) zur Entsorgung entfernen



Quitar la batería para el desecho  
Remove the battery for decommissioning  
Retirer la batterie pour sa mise au rebut  
Rimuovere la batteria per la dismissione  
Die Batterie ordnungsgemäß entsorgen



Quitar el equipo de control para el desecho  
Remove control gear for disposal  
Retirer le dispositif de commande pour l'élimination  
Rimuovere l'alimentatore per lo smaltimento  
Betriebsgerät zur Entsorgung ausbauen

Enviar los materiales a un centro de recogida RAEE  
Send the materials to a WEEE collection centre  
Envoyer les matériaux dans une déchetterie DEEE  
Inviare i materiali ad un centro di raccolta RAEE  
Die Materialien in einem WEEE-Zentrum entsorgen

