



## DIMENSIONS



## ACCESORIES



BLACK FOSTER CUSTOM  
ACCESSORIES

### Reference

U4533112NMG

### Color

Black-Metallized gold

### Category

Custom Systems

### Type

LED

### Gross luminous flux

750 Lm

### Color temperature

4000 K

### Chromatic stability

MacAdam Step 3

### Color Rendering Index

CRI>90

### Power

6.3 W

### Current

700 mA

### Efficacy

119 Lm/W

### LED lifespan

L90B10>102.000h

### Lighting efficiency

90%

### Delivered luminous flux

675 Lm

### Light beam angle

19°

### Driver

Included

### Power values of the system

8,40 W

### Dimming

0-10V

### Environmental location

DAMP

### Track type

Black Foster Custom Surface Track

### Weight

0.24 lb | 110 gr

### Packaged weight

0.39 lb | 177 gr

### Packaging dimensions

9.72 x 4.41 x 1.89 in | 247 x 112 x 48 mm

### Materials

Aluminium / Acrylonitrile Butadiene Styrene / Polycarbonate

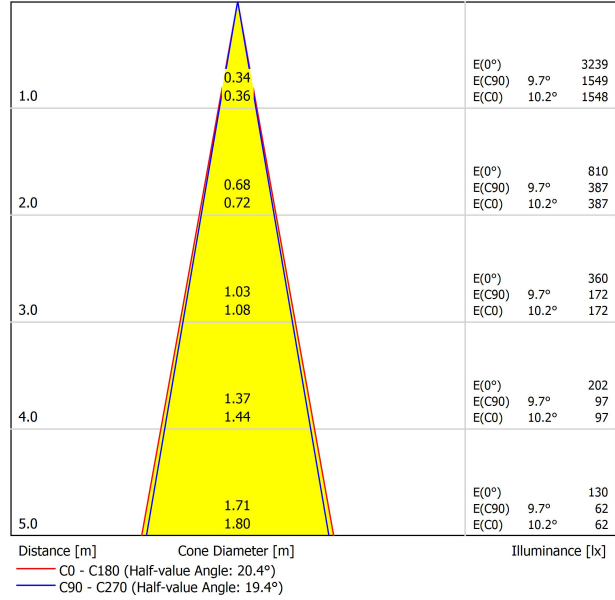


Black Foster is the lighting fixture that transfers the applauded "Invisible Black" effect to a linear system. Black Foster is composed of a series of combinable modules enabling the alternation of segments with light emission and without light emission. However, whether it is ON or OFF, this luminaire always keeps the aesthetics of a perfect dark line. To the observer, it is impossible to distinguish between Black Foster parts that emit light from those that don't. Black Foster's modularity provides a wide range of different combinations, allowing to set up the light emission location as many times as needed, and adapting itself to the requirements of each project in particular.

## POLAR DIAGRAM



## CONICAL DIAGRAM



## UGR

| Glare Evaluation According to UGR                                |     |  |      |      |      |      |   |      |      |      |      |
|--|-----|--|------|------|------|------|---|------|------|------|------|
| ρ Ceiling  |     | 70   | 70   | 50   | 50   | 30   | 70                                      | 70   | 50   | 50   | 30   |
| ρ Walls  |     | 50   | 30   | 50   | 30   | 30   | 50                                      | 30   | 50   | 30   | 30   |
| ρ Floor  |     | 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  | 6.1  | 6.7  | 6.3  | 6.9  | 7.1  | 6.1                                     | 6.8  | 6.4  | 7.0  | 7.2  |
|  | 3H  | 9.6  | 10.2 | 9.9  | 10.5 | 10.7 | 9.7                                     | 10.3 | 10.0 | 10.5 | 10.8 |
|  | 4H  | 11.5   | 12.1 | 11.8 | 12.3 | 12.6 | 11.6                                    | 12.2 | 11.9 | 12.4 | 12.7 |
|  | 6H  | 13.6   | 14.2 | 13.9 | 14.4 | 14.7 | 13.6                                    | 14.2 | 13.9 | 14.4 | 14.7 |
|  | 8H  | 14.8   | 15.3 | 15.2 | 15.6 | 15.9 | 14.9                                    | 15.4 | 15.2 | 15.7 | 16.0 |
|  | 12H | 16.2   | 16.7 | 16.5 | 17.0 | 17.3 | 16.3                                    | 16.8 | 16.6 | 17.1 | 17.4 |
| 4H   | 2H  | 7.1  | 7.7  | 7.4  | 7.9  | 8.2  | 7.2                                     | 7.8  | 7.5  | 8.0  | 8.3  |
|  | 3H  | 10.9   | 11.4 | 11.3 | 11.7 | 12.0 | 11.0                                    | 11.5 | 11.3 | 11.8 | 12.1 |
|  | 4H  | 13.0   | 13.4 | 13.3 | 13.7 | 14.1 | 13.1                                    | 13.5 | 13.5 | 13.9 | 14.2 |
|  | 6H  | 15.2   | 15.6 | 15.6 | 16.0 | 16.3 | 15.3                                    | 15.6 | 15.7 | 16.0 | 16.4 |
|  | 8H  | 16.6   | 16.9 | 17.0 | 17.3 | 17.7 | 16.7                                    | 17.0 | 17.1 | 17.4 | 17.8 |
|  | 12H | 18.0   | 18.3 | 18.5 | 18.7 | 19.1 | 18.1                                    | 18.4 | 18.6 | 18.8 | 19.2 |
| 8H   | 4H  | 13.8   | 14.1 | 14.2 | 14.5 | 14.9 | 13.9                                    | 14.2 | 14.3 | 14.6 | 15.0 |
|  | 6H  | 16.3   | 16.6 | 16.8 | 17.0 | 17.4 | 16.4                                    | 16.6 | 16.8 | 17.0 | 17.5 |
|  | 8H  | 17.8   | 18.0 | 18.3 | 18.5 | 18.9 | 17.9                                    | 18.1 | 18.4 | 18.6 | 19.0 |
|  | 12H | 19.5   | 19.7 | 20.0 | 20.1 | 20.6 | 19.6                                    | 19.8 | 20.1 | 20.2 | 20.7 |
| 12H  | 4H  | 14.0   | 14.3 | 14.5 | 14.7 | 15.1 | 14.1                                    | 14.4 | 14.6 | 14.8 | 15.2 |
|  | 6H  | 16.7   | 16.9 | 17.2 | 17.3 | 17.8 | 16.7                                    | 16.9 | 17.2 | 17.4 | 17.8 |
|  | 8H  | 18.3   | 18.5 | 18.8 | 18.9 | 19.4 | 18.4                                    | 18.5 | 18.8 | 19.0 | 19.5 |
| Variation of the observer position for the luminaire distances S |     |  |      |      |      |      |   |      |      |      |      |
| S = 1.0H   |     | +0.2 / -0.2                                    |      |      |      |      | +0.2 / -0.2                             |      |      |      |      |
| S = 1.5H   |     | +0.3 / -0.3                                    |      |      |      |      | +0.3 / -0.3                             |      |      |      |      |
| S = 2.0H   |     | +0.5 / -0.6                                    |      |      |      |      | +0.5 / -0.6                             |      |      |      |      |
| Standard table Correction Summand                                |     | ---  |      |      |      |      | ---                                     |      |      |      |      |
| Corrected Glare Indices referring to 750lm Total Luminous Flux   |     |  |      |      |      |      |   |      |      |      |      |

# Black Foster Custom System components

# ARKOSLIGHT

Black Foster Custom System is a modular 48V lighting system designed to create tailored lighting setups by combining tracks, connectors, lighting modules, and accessories. Ideal for architectural and retail projects that demand flexibility, minimalist design, and high performance.

To configure the Black Foster Custom System, you'll need to combine the following components:

1. Tracks - Available in surfac, or suspended versions (using suspension accessories with the surface track), they form the structural and electrical base of the system.
2. Connectors & Power Supply - Join track sections and provide 48V power input.
3. Accessories - Including end caps, joining elements, mounting accessories, and alternative installation parts to secure and finish the system.



## Track Options

Choose all the track components required for your project configuration.

|   |                                |
|---|--------------------------------|
| <b>BLACK FOSTER Custom Surface 3.28ft (1m) UL</b> | <b>U452-01-00-   NT   WT  </b> |
| <b>BLACK FOSTER Custom Surface 6.56ft (2m) UL</b> | <b>U452-02-00-   NT   WT  </b> |

|   |                                |
|---|--------------------------------|
| <b>BLACK FOSTER Custom Surface L-Joint UL</b> | <b>U452-04-00-   NT   WT  </b> |
| <b>BLACK FOSTER Custom Surface T-Joint UL</b> | <b>U452-05-00-   NT   WT  </b> |
| <b>BLACK FOSTER Custom Surface X-Joint UL</b> | <b>U452-06-00-   NT   WT  </b> |

CUSTOM SURFACE PROFILE



L-JOINT



T-JOINT



X-JOINT



## Complementary track accessories

Use end caps, joiners, and gap covers to connect, close, and cleanly finish your track setup.

|                                    |                              |
|------------------------------------|------------------------------|
| <b>BLACK FOSTER Custom Surface</b> |                              |
| <b>End UL</b>                      | <b>U452-00-03-   N   W  </b> |

Cover thickness = 0.12in (3mm)



|                                    |                              |
|------------------------------------|------------------------------|
| <b>BLACK FOSTER Custom Surface</b> |                              |
| <b>End Feed UL</b>                 | <b>U452-00-04-   N   W  </b> |

Cover thickness = 0.12in (3mm)



|                                    |                   |
|------------------------------------|-------------------|
| <b>BLACK FOSTER Custom Surface</b> |                   |
| <b>Straight Joiner UL</b>          | <b>U452-00-05</b> |



|   |  |
|---|--|
| <b>BLACK FOSTER Suspension Kit (2 Units) UL</b> |  |
| <b>U450-00-09-   NT   WT  </b>                  |  |

Suggested Mounting accessories quantities

- 3.28ft (1000mm) - 2 Pcs.
- 6.56ft (2000mm) - 3 Pcs.



|                                   |            |
|-----------------------------------|------------|
| <b>Suspension Feed Kit 48V UL</b> |            |
| <b>U338-00-17-   N   W  </b>      | <b>DIM</b> |

\*For remote power supply



|   |                          |                 |
|---|--------------------------|-----------------|
| <b>BLACK FOSTER Custom Cover Gap 250 UL</b> | <b>U452-00-01-   N  </b> | 9.48in / 250mm  |
| <b>BLACK FOSTER Custom Cover Gap 500 UL</b> | <b>U452-00-02-   N  </b> | 16.69in / 500mm |



COLOUR | NT ■ RAL 9005 | WT □ RAL 9016 | N ■ RAL 9005 |

Electrical connections are not included. Please choose the required components from the Connectors section.



## Connector options

Connectors are required to provide electrical continuity between tracks, ensuring an uninterrupted 48V flow.

Live-End Connector 48V UL

U338-00-01- | N |



Central Connector 48V UL

U338-00-02- | N |



L-Joint Connector 48V UL

U338-00-12- | N |



T-Joint Connector 48V UL

U450-00-07- | N |



X-Joint Connector 48V UL

U450-00-08- | N |



## Power Supply Options

Select the appropriate power feed to deliver 48V to the system based on your track layout and installation type.

|                                      | P          | V   | D   |
|--------------------------------------|------------|-----|---|
| Constant Voltage<br>LED POWER SUPPLY | U100-00-78 | 96W | 48V   |
|                                      |            |     | 8.16 x 2.97 x 1.30 in<br>207 x 75.4 x 33 mm |

120 & 277V | 50/60 Hz

UL DROP  
VOLTAGE TABLE

|       |               | CABLE LENGTH |         |          |         |
|-------|---------------|--------------|---------|----------|---------|
|       |               | 16.40ft      | 32.80ft | 65.62ft  | 98.43ft |
|       |               | 5m           | 10m     | 20m      | 30m     |
| POWER | CABLE SECTION | TRACK LENGTH |         |          |         |
| 96 W  | AWG16         | 164ft        | 164ft   | 131.32ft | 82ft    |
|       |               | 50m          | 50m     | 40m      | 25m     |

## Connection diagrams:

### Surface



### Suspension



COLOUR | N ■ RAL 9005 | W □ RAL 9016 |