# RADIANT
## ARCHITECTURAL LIGHTING

# Centura 40 IP20
Fixed ring modular LED pendant lighting system
Down light - 2 or 4 x high power LEDs with lenses per module
Up light - 1 x RGB, RGBW, RGBA array or white-light COB per every other module
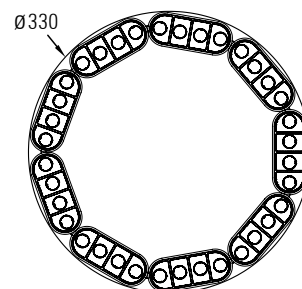
Standard ring diameters:

Minimum ring size
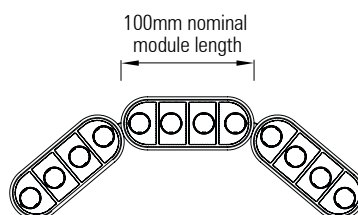9 modules - diameter = 330mm.

12 modules - diameter = 425mm

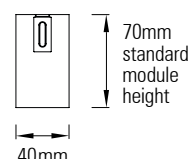15 modules - diameter = 525mm

18 modules - diameter = 620mm

+ increments of approximately
100mm up to - 2mtr diameter

Ø330

Custom lengths up to 2.5 Mtrs based on a nominal 100mm module length

100mm nominal module length

Custom module heights can be specified. The minimum, standard module height is 70mm

70mm standard module height

40mm

Cable:

Custom length to order

112mm (when the module height is 90mm)

Rod:

Custom length to order

**Down light - 2 or 4 x high power LEDs with lenses per module**

**Up light - 1 x white-light LED COB or 1 x array of 4 x RGB, RGBW or RGBA LEDs (up light in every other module)**

Fixed modular LED pendant lighting system IP20 - Up and Down light

**Product description:**
Modular circular LED pendants in a range of sizes with up and down lights and decorative two-colour louvred snoots in custom finishes for use in a wide range of application areas including architectural, hospitality, leisure and retail. The unique design means that the size of the ring can range from 120mm ø with no maximum.

Down light - 2 or 4 x Cree XPE, XPG or XQE LEDs or Osram Oslon LEDs with Ledil Tina2 lenses per module

Up light - 1 x white-light LED COB or 1 x array of Cree XBD RGB, RBW or RGBA LEDs with asymetric white reflector (per every other module)

5 Watts per 100mm module

30 Volt - 48 Volt DC supply depending on application

Integral LV constant current drivers

Dimming options available: 1 - 10V, DMX and DALI

Various LED colour temperature and CRI options available

Decorative anti-glare louvred snoots available with custom powder coat or anodized finishes to order. The interior louvre finish can be different from the outer body finish

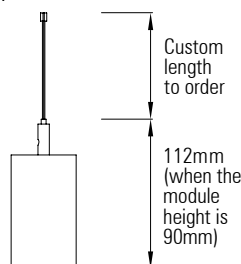Body - Satin black, satin white or any RAL powder coat or anodized finish

Louvre - Black (low glare) or any RAL powder coat or anodized finish

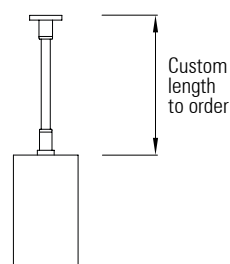Custom lengths based on a 100 mm module up to 2.5 Mtrs

Rod or cable suspension options. Custom solutions are also available

* RGB, RGBW, RGBA and Dynamic-white options do not use a colour mixing lens

Down light:
Up to 3,500 Lumens per Mtr

Up light:
Up to 1,500 Lumens per Mtr

| Product Code | No. of LEDs per module | IP | Diameter (mm) | LED Type | CRI | Colour Temp. (K) | Optics | Mounting Type | Finish |
|---|---|---|---|---|---|---|---|---|---|
| RAD CENTURA 40 RING UP & DOWN IP20 | Down light: 4 x LEDs per module: 25mm pitch 2 x LEDs per module: 50mm pitch | 20 | 330mm ø upwards -available in increments of 100mm modules | Down light: Cree XP-E, XP-G, XQ-E or Osram Oslon | Down light: Cree: 80, 90 Osram: 95 | 27=2,700k 30=3,000k 35=3,500k 40=4,000k 45=4,500k 50=5,000k * RGB * RGBW * RGBA * Dynamic white | Down light: Ledil Tina2: N, M, W, E, Diffused spot (See attached Ledil data sheets) Up light: 120° white reflector | Steel Cable Fixed rod | Body: Any powder coat or anodized finish Louvre: Any powder coat or anodized finish |
| | Up light: 1 x COB/array per every other module: 200mm pitch | | | Up light: Cree XB-D | Up light: Cree: 80 | | | | |

## TINA2-RS

**~14° spot beam optimized for CREE XP-E. Assembly with holder and installation tape.**

### TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.7 mm |
| Fastening | tape |
| Colour | black |
| Box size | 451 x 241 x 298 mm |
| Box weight | 8.1 kg |
| Quantity in Box | 4140 pcs |
| ROHS compliant | yes ⓘ |

### MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour |
|---|---|---|---|
| TINA2-RS | Single lens | PMMA | clear |
| TINA2-XP-HLD-TAPE-BLK | Holder | PC | black |
| TINA-TAPE3 | Tape | PU tape | black |

## PHOTOMETRIC DATA (MEASURED):

**CREE ⇕**

| | |
|---|---|
| LED | XP-E |
| FWHM | 11.0° |
| Efficiency | 90 % |
| Peak intensity | 17.700 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE ⇕**
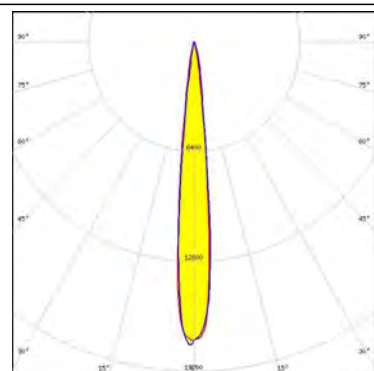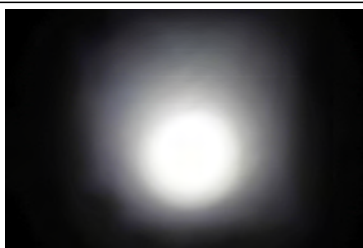
| | |
|---|---|
| LED | XP-E2 |
| FWHM | 11.0° |
| Efficiency | 89 % |
| Peak intensity | 16.600 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE ⇕**
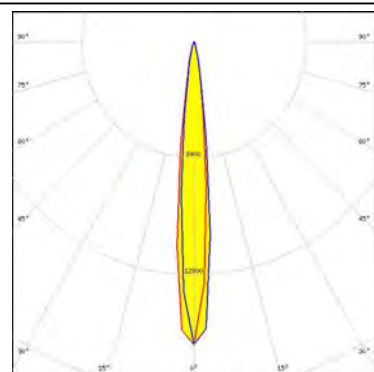
| | |
|---|---|
| LED | XP-G |
| FWHM | 15.0° |
| Efficiency | 93 % |
| Peak intensity | 9.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
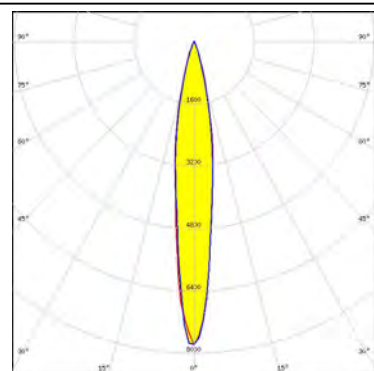


**CREE ⇕**

| | |
|---|---|
| LED | XP-G2 |
| FWHM | 15.0° |
| Efficiency | 91 % |
| Peak intensity | 10.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
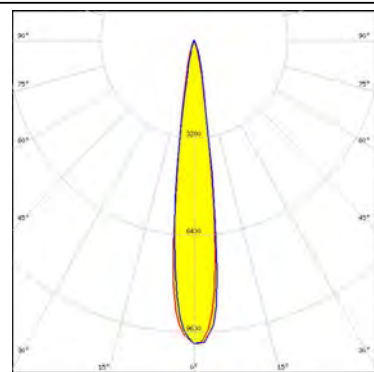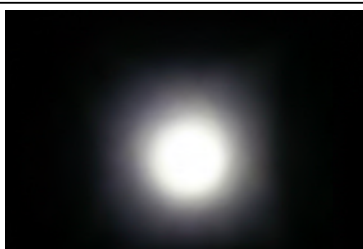
## TINA2-M

**~30° medium beam optimized for CREE XP-E.
Assembly with holder and installation tape.**

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.7 mm |
| Fastening | tape |
| Colour | black |
| Box size | 451 x 241 x 298 mm |
| Box weight | 8.1 kg |
| Quantity in Box | 4140 pcs |
| ROHS compliant | yes ⓘ |

| Component | Type | Material | Colour |
|---|---|---|---|
| TINA2-XP-M | Single lens | PMMA | clear |
| TINA2-XP-HLD-TAPE-BLK | Holder | PC | black |
| TINA-TAPE3 | Tape | PU tape | black |

## PHOTOMETRIC DATA (MEASURED):

**CREE**

| | |
|---|---|
| LED | XP-E |
| FWHM | 31.0° |
| Efficiency | 89 % |
| Peak intensity | 2.560 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**CREE**
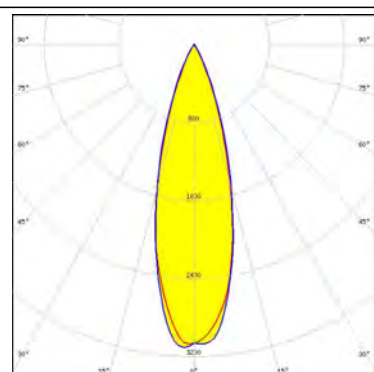
| | |
|---|---|
| LED | XP-E-HEW |
| FWHM | 30.0° |
| Efficiency | % |
| Peak intensity | 2.290 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**CREE**
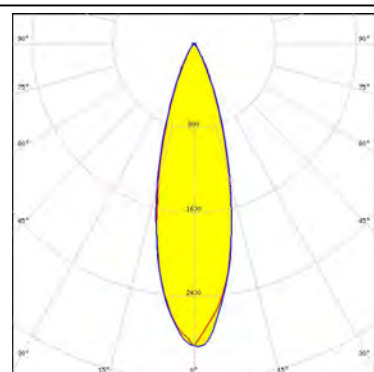
| | |
|---|---|
| LED | XP-E2 |
| FWHM | 32.0° |
| Efficiency | 86 % |
| Peak intensity | 3.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**CREE**
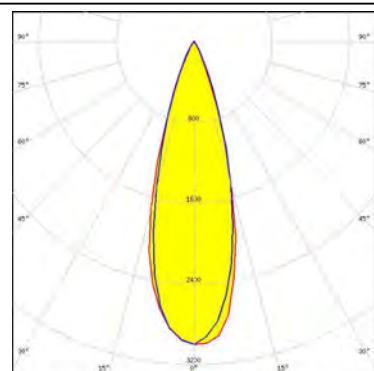
| | |
|---|---|
| LED | XP-G |
| FWHM | 30.0° |
| Efficiency | 88 % |
| Peak intensity | 2.800 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## PHOTOMETRIC DATA (MEASURED):

**CREE**
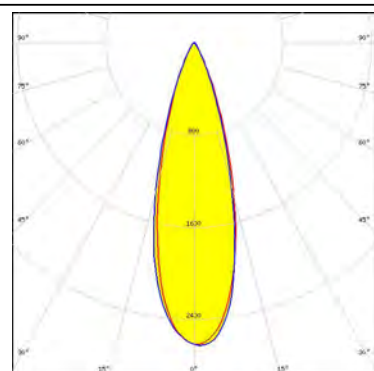
| | |
|---|---|
| LED | XP-G2 |
| FWHM | 26.0° |
| Efficiency | 84 % |
| Peak intensity | 3.200 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE**
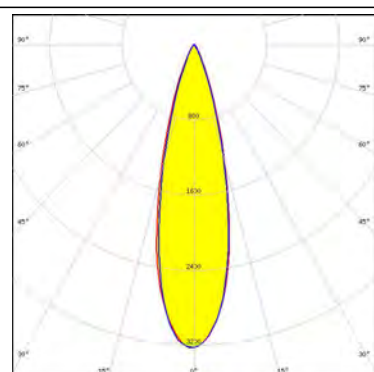
| | |
|---|---|
| LED | XT-E |
| FWHM | 31.0° |
| Efficiency | 81 % |
| Peak intensity | 2.600 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**LG Innotek**
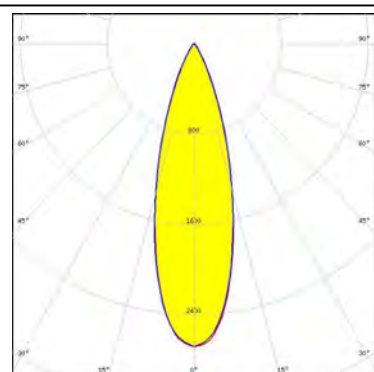
| | |
|---|---|
| LED | H35B0 (LEMWA32) |
| FWHM | 30.0° |
| Efficiency | 86 % |
| Peak intensity | 2.800 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**LG Innotek**
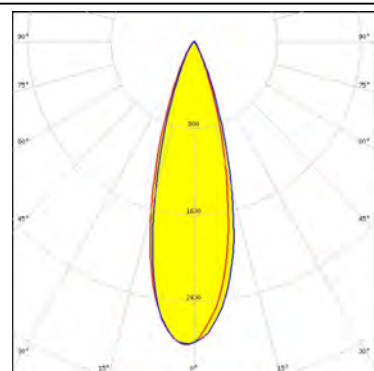
| | |
|---|---|
| LED | H35C0 (LEMWA33) |
| FWHM | 30.0° |
| Efficiency | 85 % |
| Peak intensity | 2.550 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
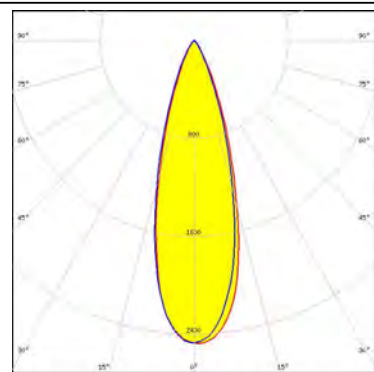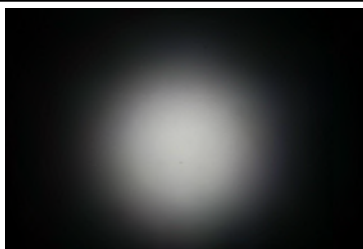
## TINA2-W

~45° wide beam optimized for CREE XP-E.
Assembly with holder and installation tape.



### TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.7 mm |
| Fastening | tape |
| Colour | black |
| Box size | 451 x 241 x 298 mm |
| Box weight | 8.7 kg |
| Quantity in Box | 4140 pcs |
| ROHS compliant | yes ⓘ |

### MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour |
|---|---|---|---|
| TINA2-W-XP | Single lens | PMMA | clear |
| TINA2-XP-HLD-TAPE-BLK | Holder | PC | black |
| TINA-TAPE3 | Tape | PU tape | black |

## PHOTOMETRIC DATA (MEASURED):

**CREE⇕**

| | |
|---|---|
| LED | XP-E |
| FWHM | 50.0° |
| Efficiency | 88 % |
| Peak intensity | 1.500 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE⇕**
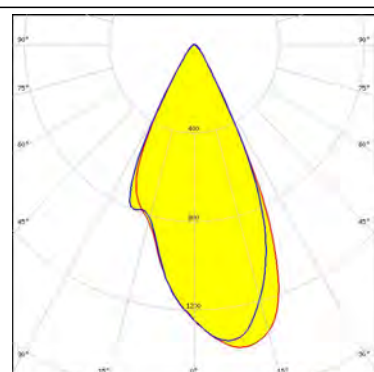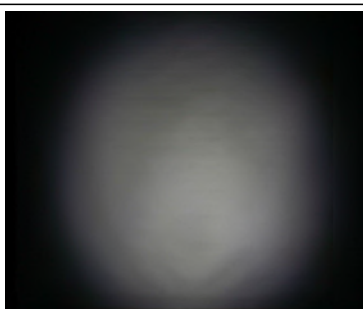
| | |
|---|---|
| LED | XP-E2 |
| FWHM | 52.0° |
| Efficiency | 89 % |
| Peak intensity | 1.200 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE⇕**
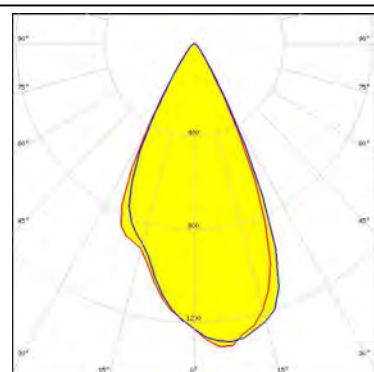
| | |
|---|---|
| LED | XP-G |
| FWHM | 57.0° |
| Efficiency | 88 % |
| Peak intensity | 1.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
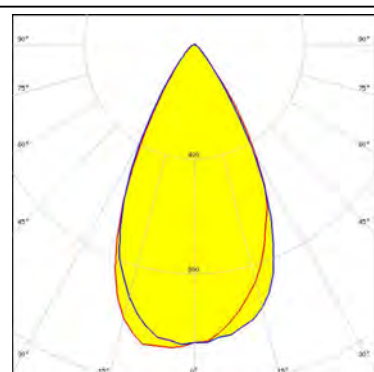


**CREE⇕**

| | |
|---|---|
| LED | XP-G2 |
| FWHM | 54.0° |
| Efficiency | 88 % |
| Peak intensity | 1.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
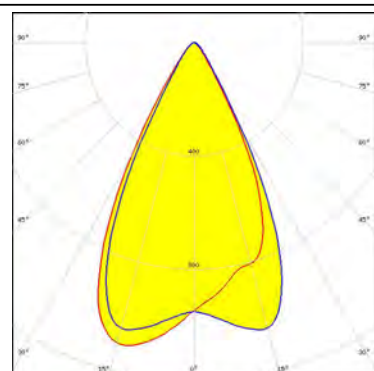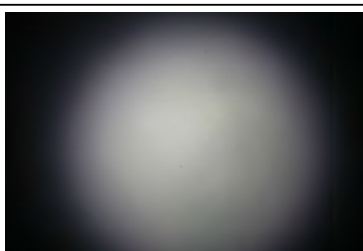
## TINA2-O

**~35° + 15° oval beam optimized for CREE XP-E.
Assembly with holder and installation tape.**

### TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.7 mm |
| Fastening | tape |
| Colour | black |
| Box size | 451 x 241 x 298 mm |
| Box weight | 8.3 kg |
| Quantity in Box | 4140 pcs |
| ROHS compliant | yes ⓘ |

### MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour |
|---|---|---|---|
| TINA2-XP-O | Single lens | PMMA | clear |
| TINA2-XP-HLD-TAPE-BLK | Holder | PC | black |
| TINA-TAPE3 | Tape | PU tape | black |

## PHOTOMETRIC DATA (MEASURED):

**CREE**

| | |
|---|---|
| LED | XP-E |
| FWHM | 32.0 + 14.0° |
| Efficiency | 87 % |
| Peak intensity | 4.400 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE**
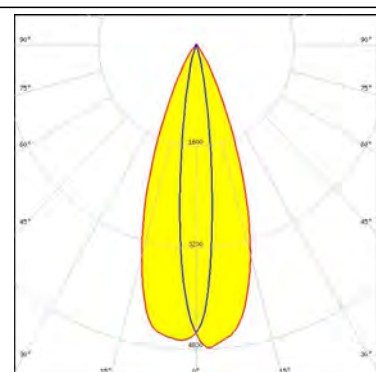
| | |
|---|---|
| LED | XP-E-HEW |
| FWHM | 34.0 + 16.0° |
| Efficiency | % |
| Peak intensity | 3.360 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE**
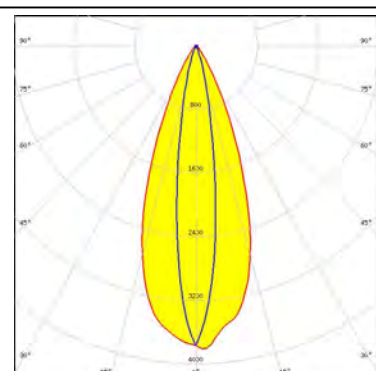
| | |
|---|---|
| LED | XP-E2 |
| FWHM | 34.0 + 14.0° |
| Efficiency | 86 % |
| Peak intensity | 5.100 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE**
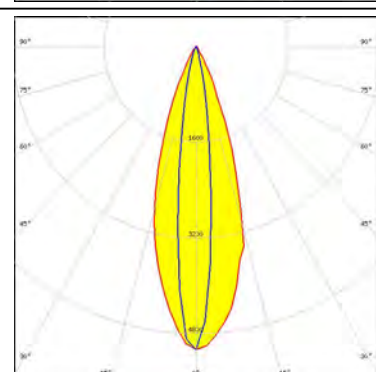
| | |
|---|---|
| LED | XP-G |
| FWHM | 35.0 + 16.0° |
| Efficiency | 87 % |
| Peak intensity | 3.900 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## PHOTOMETRIC DATA (MEASURED):

### CREE
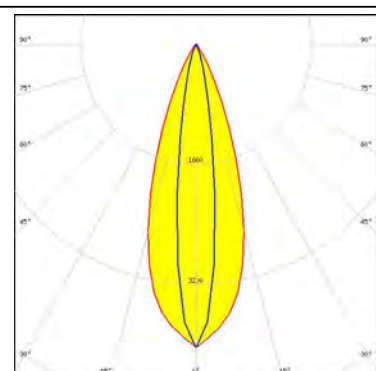
| | |
|---|---|
| LED | XP-G2 |
| FWHM | 34.0 + 16.0° |
| Efficiency | 87 % |
| Peak intensity | 4.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



### CREE
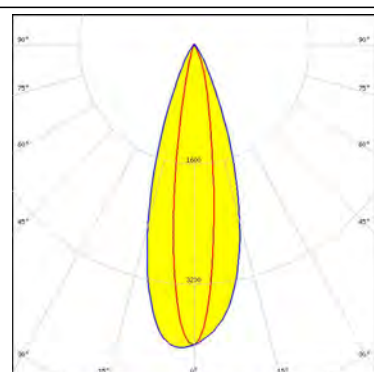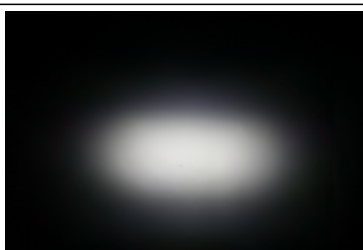
| | |
|---|---|
| LED | XT-E |
| FWHM | 35.0 + 16.0° |
| Efficiency | 85 % |
| Peak intensity | 3.800 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



### LG Innotek
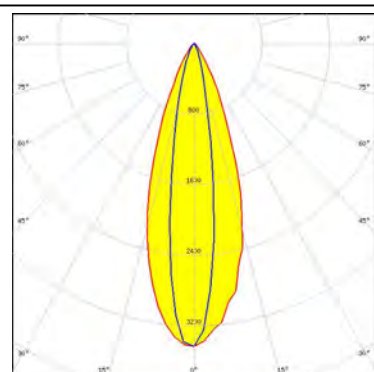
| | |
|---|---|
| LED | H35B0 (LEMWA32) |
| FWHM | 35.0 + 15.0° |
| Efficiency | 86 % |
| Peak intensity | 4.200 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



### LG Innotek
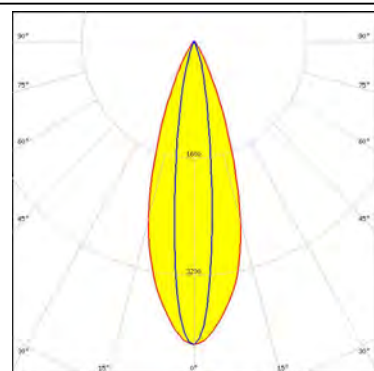
| | |
|---|---|
| LED | H35C0 (LEMWA33) |
| FWHM | 33.0 + 17.0° |
| Efficiency | 86 % |
| Peak intensity | 3.500 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
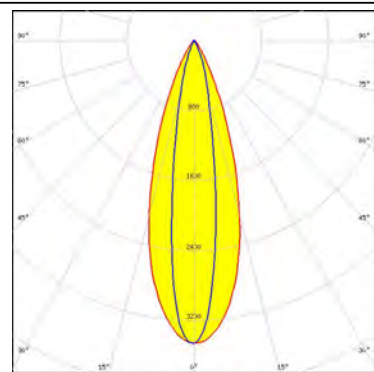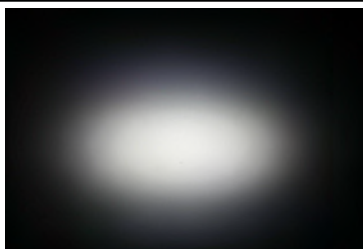
# TINA2-D

**~16° diffused spot beam optimized for CREE XP-E. Assembly with holder and installation tape.**



## TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 9.7 mm |
| Fastening | tape |
| Colour | black |
| Box size | 451 x 241 x 298 mm |
| Box weight | 8.8 kg |
| Quantity in Box | 4140 pcs |
| ROHS compliant | yes ⓘ |

## MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour |
|---|---|---|---|
| TINA2-XP-D | Single lens | PMMA | clear |
| TINA2-XP-HLD-TAPE-BLK | Holder | PC | black |
| TINA-TAPE3 | Tape | PU tape | black |

## PHOTOMETRIC DATA (MEASURED):

**CREE**
| | |
|---|---|
| LED | XP-E |
| FWHM | 12.0° |
| Efficiency | 91 % |
| Peak intensity | 10.300 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
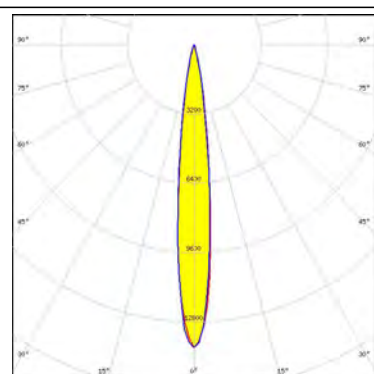


**CREE**
| | |
|---|---|
| LED | XP-E2 |
| FWHM | 13.0° |
| Efficiency | 86 % |
| Peak intensity | 11.800 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
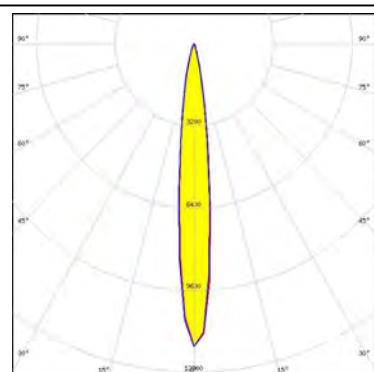


**CREE**
| | |
|---|---|
| LED | XP-G |
| FWHM | 17.0° |
| Efficiency | 91 % |
| Peak intensity | 5.520 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
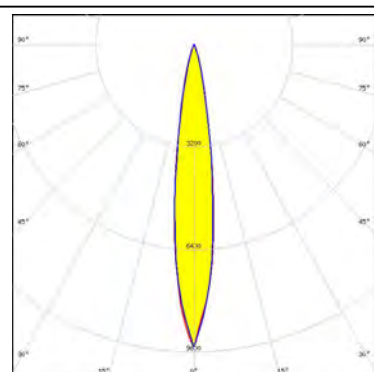


**CREE**
| | |
|---|---|
| LED | XP-G2 |
| FWHM | 15.0° |
| Efficiency | 90 % |
| Peak intensity | 8.000 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |