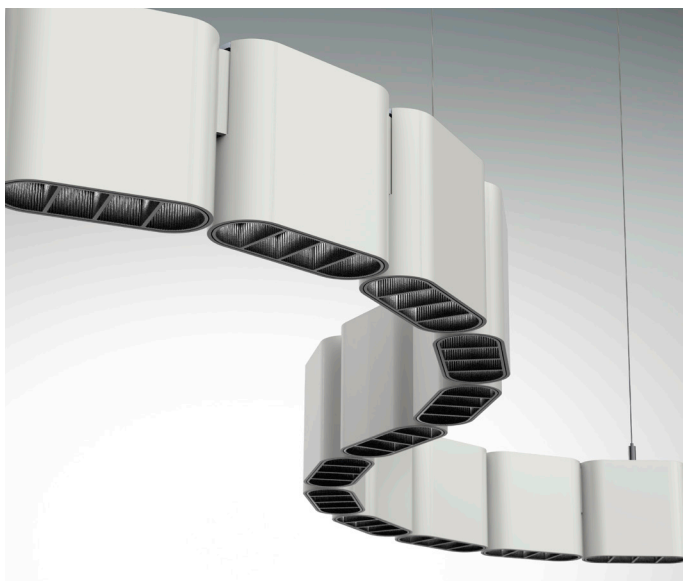# Centura 40 IP20

Flexible 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

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)

Modular flexible LED pendant lighting system IP20 - Up and Down light

Product description:
Centura has an articulated linkage-joint system between modules allowing for flexibility along the major axis. This innovative modular design offers the flexibility to follow curved surfaces, encircle columns and domes, and to make irregular shaped pendants, all whilst offering excellent lighting control and uniformity.This versatility offers the ability for use in a wide range of application areas including architectural, hospitality, leisure and retail

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

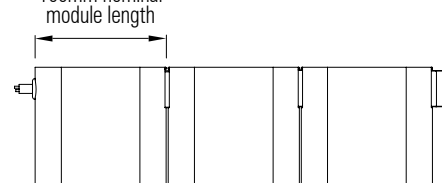Louvre - Black (low glare) or any RAL powder coat or anodized finish

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

Custom lengths up to 2.5 Mtrs based on a nominal 100mm module length
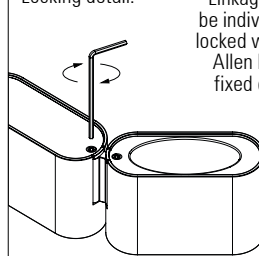
Custom module heights can be specified. The minimum, standard module height is 90mm

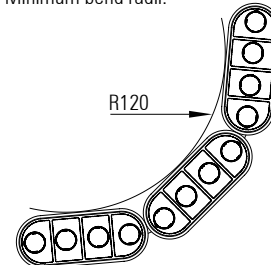100mm nominal module length

40mm

90mm standard module height

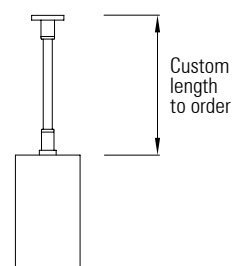**Locking detail:** Linkages can be individually locked with an Allen key for fixed curves

Minimum bend radii:
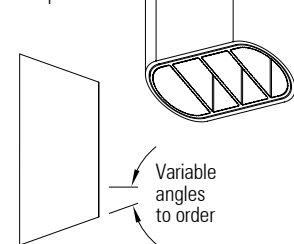
R120

Cable: Custom length to order — 112mm (when the module height is 90mm)

Rod: Custom length to order

Cut-angle side profile: Variable angles to order
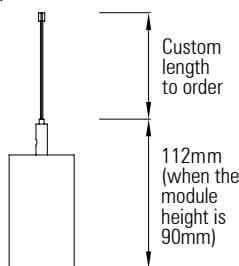
Down light: Up to 3,500 Lumens per Mtr

Up light: Up to 1,500 Lumens per Mtr

Product Code	No. of LEDs per mtr.	IP	Length (mm)	LED Type	CRI	Up and down light Colour Temp. (K)	Optics	Mounting Type	Cut angle(°)	Finish
RAD CENTURA 40 FLEXIBLE UP & DOWN IP20	Down light: 40 x LEDs per Mtr: 25mm pitch 20 x LEDs per Mtr: 50mm pitch Up light: 5 x COBs/arrays per Mtr: 200mm pitch	20	100mm to 2,500mm Available in 100mm increments	Down light: Cree XP-E, XP-G, XQ-E or Osram Oslon Up light: Cree XB-D	Down light: Cree: 80, 90 Osram: 95 Up light: Cree: 80	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	0° - 75° Available in 5 degree increments	Body: Black, white or any anodized or powder coat finish Louvre: Any anodized or powder coat finish

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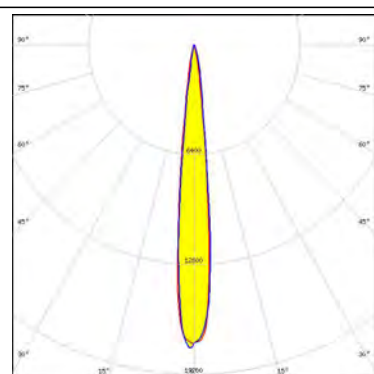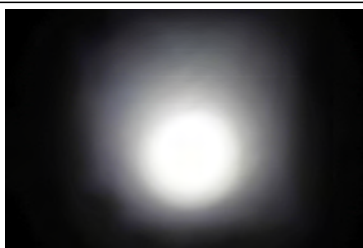
LED	XP-E2
FWHM	11.0°
Efficiency	89 %
Peak intensity	16.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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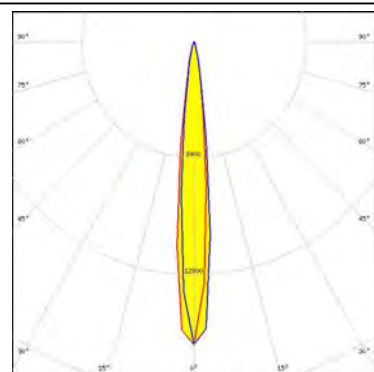
LED	XP-G
FWHM	15.0°
Efficiency	93 %
Peak intensity	9.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
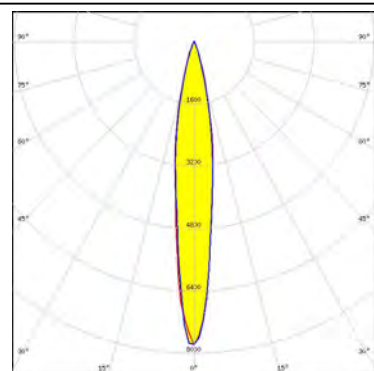
CREE

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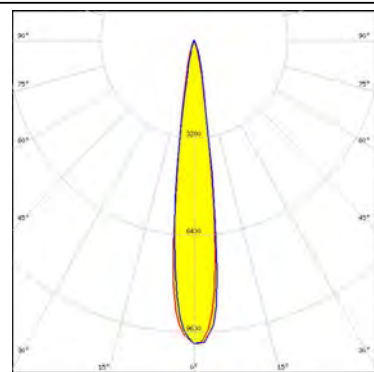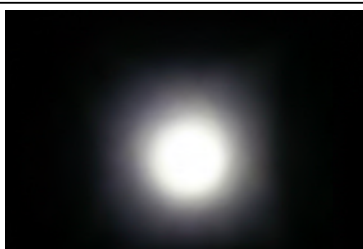
TINA2-M

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

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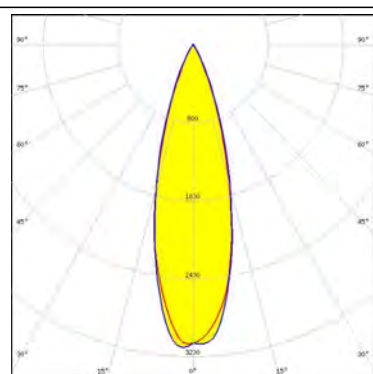
LED	XP-E-HEW
FWHM	30.0°
Efficiency	%
Peak intensity	2.290 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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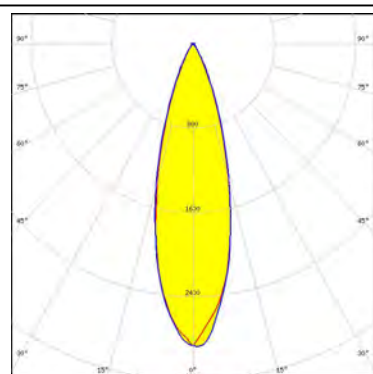
LED	XP-E2
FWHM	32.0°
Efficiency	86 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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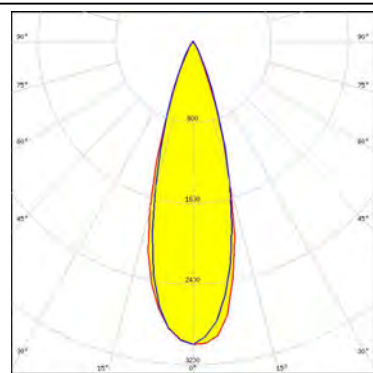
LED	XP-G
FWHM	30.0°
Efficiency	88 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

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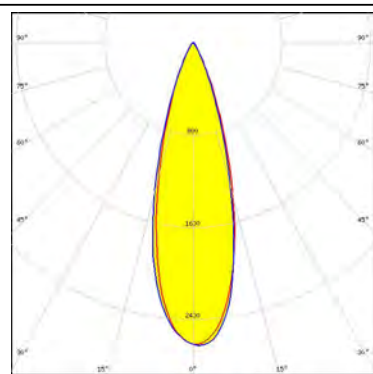
LED	XP-G2
FWHM	26.0°
Efficiency	84 %
Peak intensity	3.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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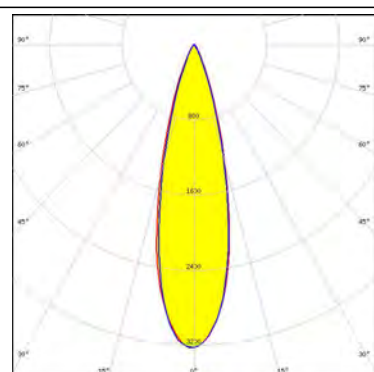
LED	XT-E
FWHM	31.0°
Efficiency	81 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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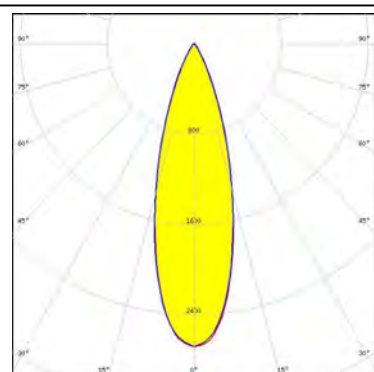
LED	H35B0 (LEMWA32)
FWHM	30.0°
Efficiency	86 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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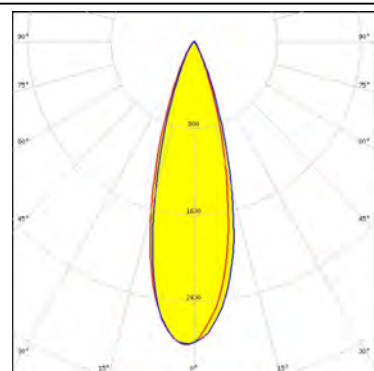
LED	H35C0 (LEMWA33)
FWHM	30.0°
Efficiency	85 %
Peak intensity	2.550 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
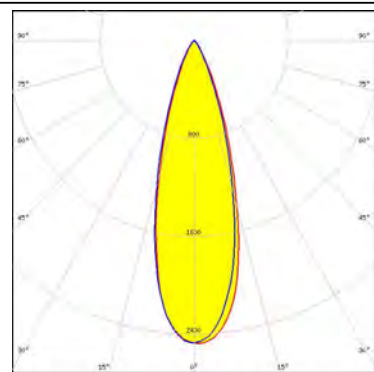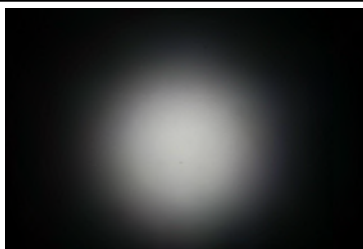
TINA2-W

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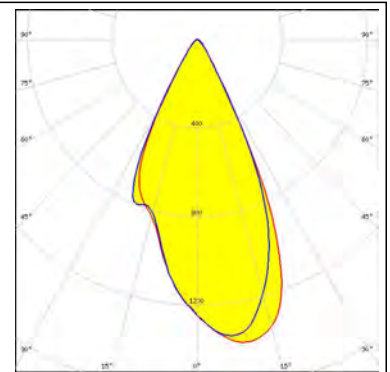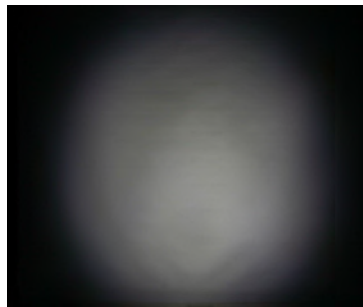
LED	XP-E2
FWHM	52.0°
Efficiency	89 %
Peak intensity	1.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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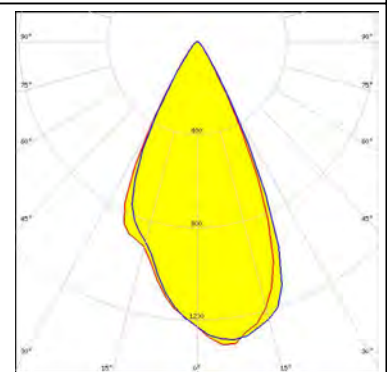
LED	XP-G
FWHM	57.0°
Efficiency	88 %
Peak intensity	1.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
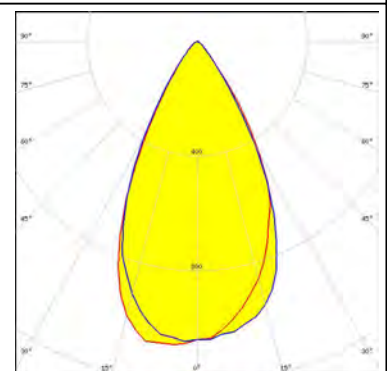
CREE

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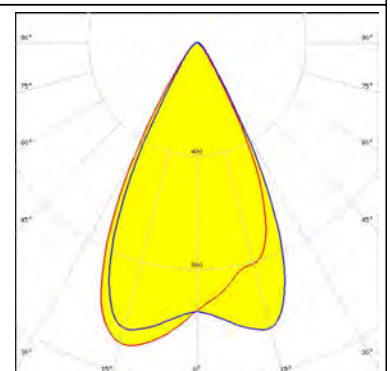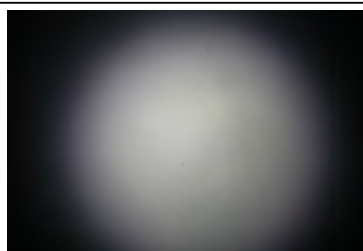
TINA2-O

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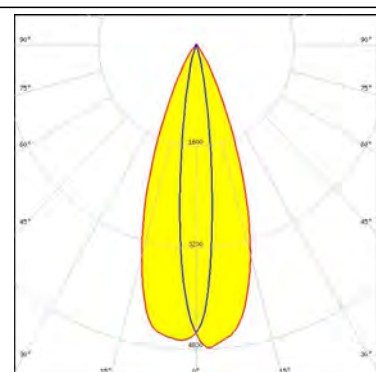
LED	XP-E-HEW
FWHM	34.0 + 16.0°
Efficiency	%
Peak intensity	3.360 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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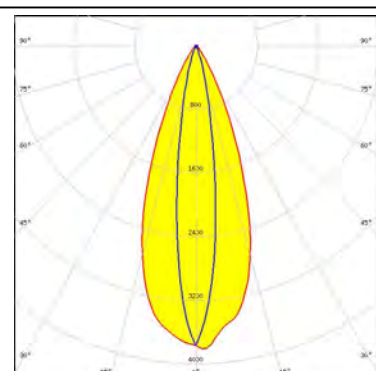
LED	XP-E2
FWHM	34.0 + 14.0°
Efficiency	86 %
Peak intensity	5.100 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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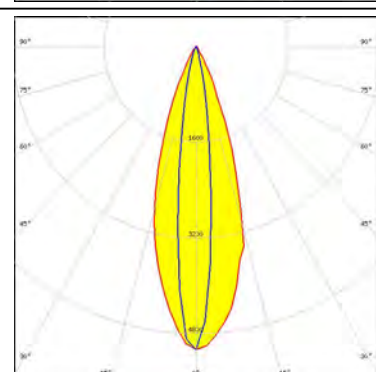
LED	XP-G
FWHM	35.0 + 16.0°
Efficiency	87 %
Peak intensity	3.900 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

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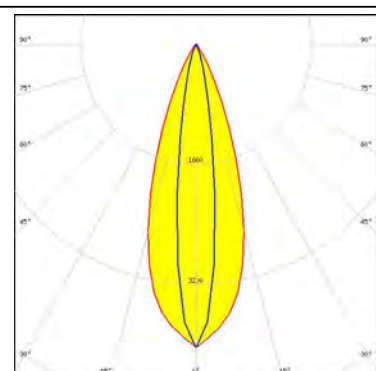
LED	XP-G2
FWHM	34.0 + 16.0°
Efficiency	87 %
Peak intensity	4.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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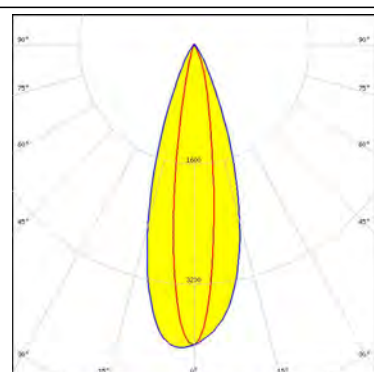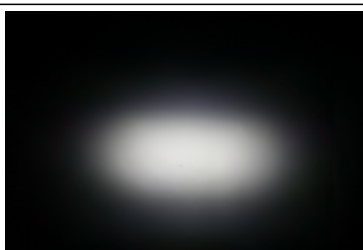
LED	XT-E
FWHM	35.0 + 16.0°
Efficiency	85 %
Peak intensity	3.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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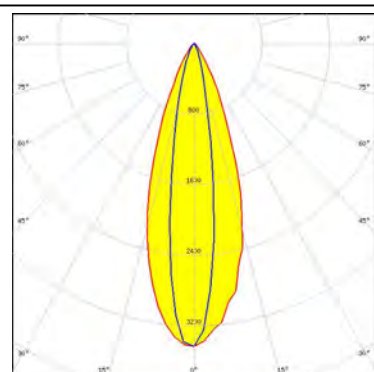
LED	H35B0 (LEMWA32)
FWHM	35.0 + 15.0°
Efficiency	86 %
Peak intensity	4.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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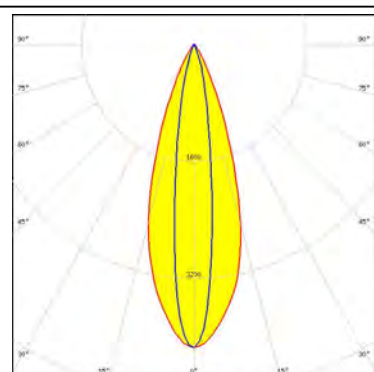
LED	H35C0 (LEMWA33)
FWHM	33.0 + 17.0°
Efficiency	86 %
Peak intensity	3.500 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
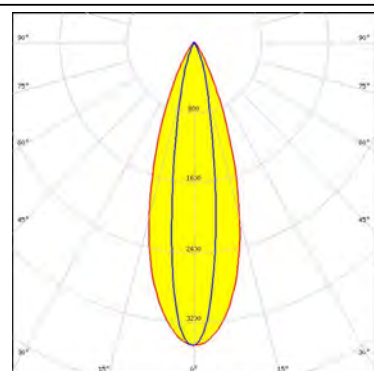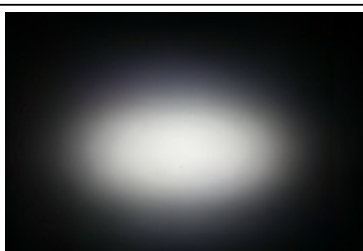
TINA2-D

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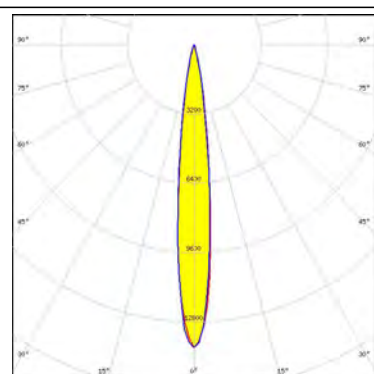
LED	XP-E2
FWHM	13.0°
Efficiency	86 %
Peak intensity	11.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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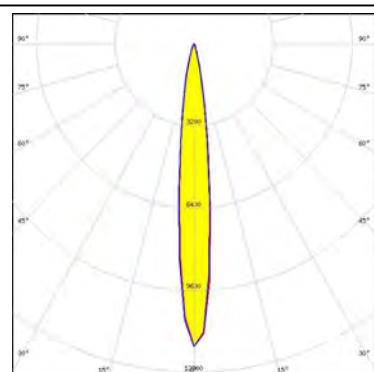
LED	XP-G
FWHM	17.0°
Efficiency	91 %
Peak intensity	5.520 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

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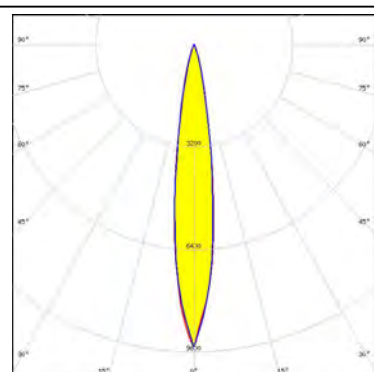
LED	XP-G2
FWHM	15.0°
Efficiency	90 %
Peak intensity	8.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	