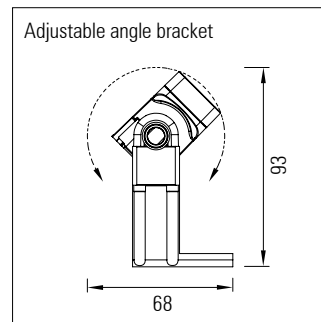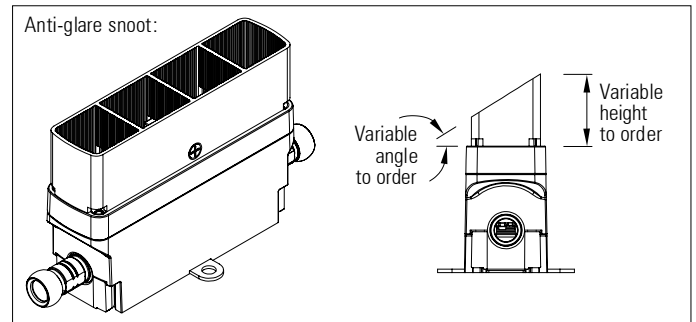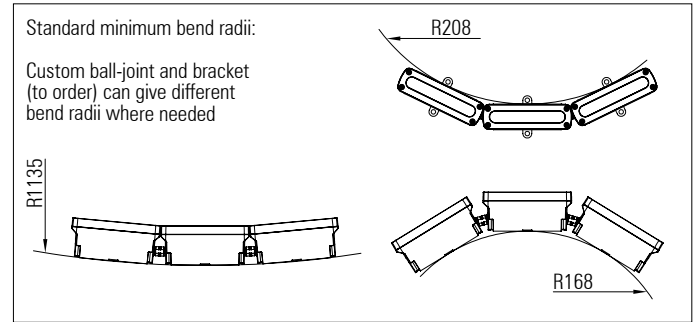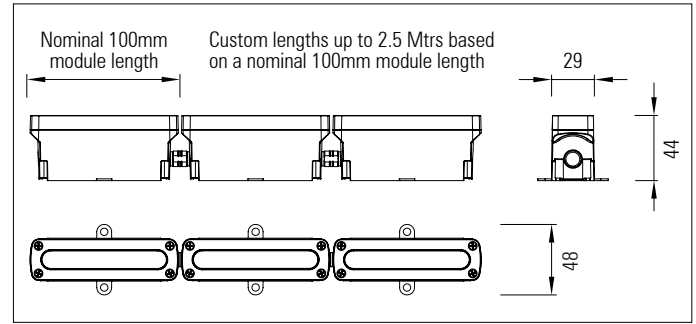# RADIANT
ARCHITECTURAL LIGHTING

3D LED Flex system 25 IP66

2 or 4 x high power LEDs with lenses per module

Modular, 3D flexible LED linear lighting system

Nominal 100mm module length

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

29

44

48

Standard minimum bend radii:

Custom ball-joint and bracket (to order) can give different bend radii where needed

R208

R1135

R168

Anti-glare snoot:

Variable height to order

Variable angle to order

Adjustable angle bracket

93

68

Up to 3,700 Lumens per Mtr

2 or 4 x high power LEDs with lenses per module

Modular, 3D flexible LED linear lighting system

Product description:

For use in exterior indirect cove lighting or direct wall washing applications where the building surfaces are non linear with curved profiles

2 or 4 x Cree XP-E, XP-G or XQ-E LEDs with Ledil Lisa or Larisa lenses per module

Up to 3.5 Watts per 100mm module

30 Volt - 48 Volt DC supply depending on application

Flexible in 3 dimensions - Articulated ball-joint system between modules

LED pitch is maintained between the modules

Side, back and end power feed and connector options allow for continuous lighting with no dark areas between fixtures. 17.5 Amp IP68 connectors join fixtures together on-site

Integral LV constant current driver

Dimming options available: 1-10V, DMX and DALI. Separate dimming channel

Various LED colour temperature and CRI options available

Satin black, satin white or any RAL paint colour finish

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

Various mounting options and bracket types are available

Low iron UV block glass covers or UV stable polycarbonate windows

* RGB, RGBW, RGBA and Dynamic-white options do not use a colour mixing lens. For a colour mixing lens version see the data sheet for the 3D LED Flex 40 IP66 with 1 x RGBW LED array with colour-blending lens per module

| Product Code	No. of LEDs per mtr.	IP	Length (mm)	LED Type	Optics (°)	Colour Temp. (K)	CRI	Cover	Bracket Type	Feed	Finish
RAD 3D LED FLEX 25 IP66 HP - 4 L RAD 3D LED FLEX 25 IP66 HP - 2 L	40 LEDs per Mtr: 25mm pitch 20 LEDs per Mtr: 50mm pitch	66	100mm -increments of 100mm up to- 2,500mm	Cree: XP-E XP-G XQ-E	Ledil: Lisa2 Larisa (See attached Ledil data sheets for details)	27=2,700k 30=3,000k 35=3,500k 40=4,000k 45=4,500k 50=5,000k * RGB * RGBW * RGBA * Dynamic white	80 90	Clear	Adjustable Fixed Custom	End Back Side	Black White Any RAL-colour

3D LED Flex system 25 IP66
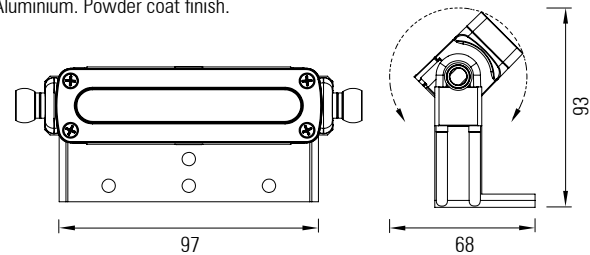
2 or 4 x high power LEDs with lenses per module

Fixed-angle and adjustable-angle mounting bracketry

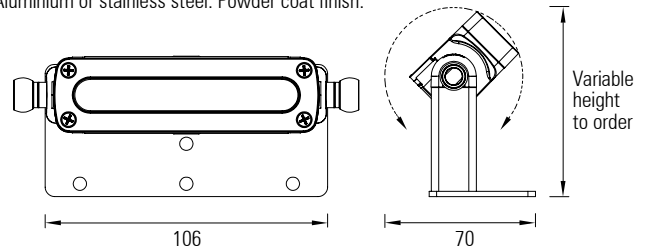Backplate with direct fixing tabs (fixed angle bracket)
Aluminium. Powder coat finish.

Nominal 100mm module length   44   48
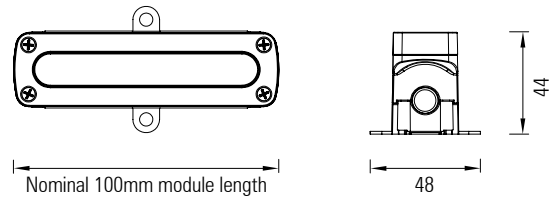
Standard IP66 adjustable angle mounting bracket
Aluminium. Powder coat finish.

97   93   68

Custom height IP66 adjustable angle mounting bracket
Aluminium or stainless steel. Powder coat finish.

106   Variable height to order   70

For adjustable-angle brackets,
the angle of the modules can
be adjusted by hand on-site
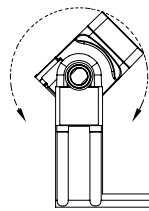
Fixed-angle and adjustable-angle mounting bracketry for 3D LED Flex 25 IP66. 2 or 4 x high power LEDs with lenses per module

The 3D LED Flex 25 system is flexible in 3 dimensions, which allows it to follow curved building contours

There are a number of bracket options available

Adjustable angle brackets allow the modules to be rotated around the major axis, so that the light output can be aimed precisely

The angle of the modules can be adjusted on-site by hand. The friction ball-joint system keeps the modules correctly positioned. There is also a lockable option, which allows each module to be locked in place using an Allen key once it is correctly positioned

A standard height adjustable angle bracket and a custom height adjustable angle bracket are available
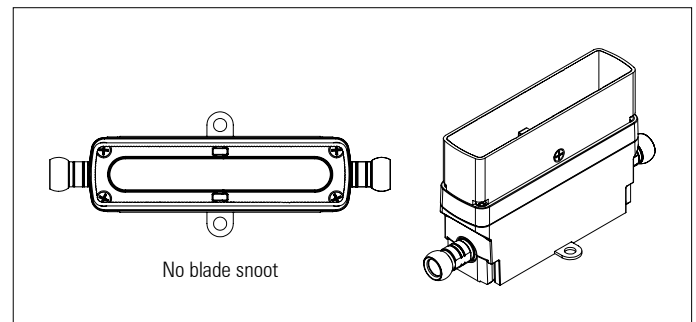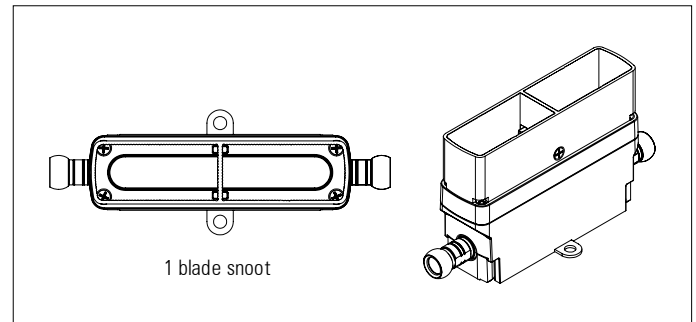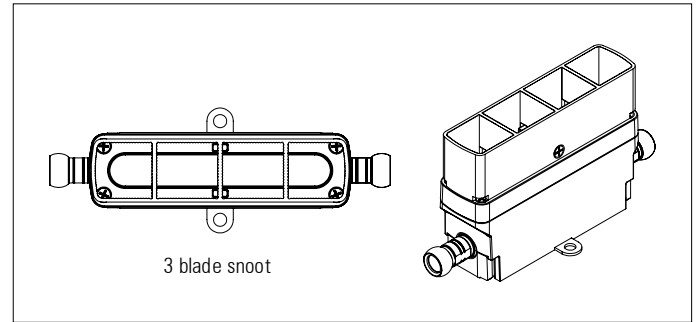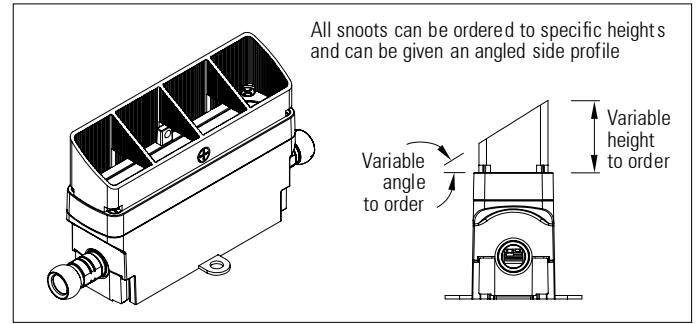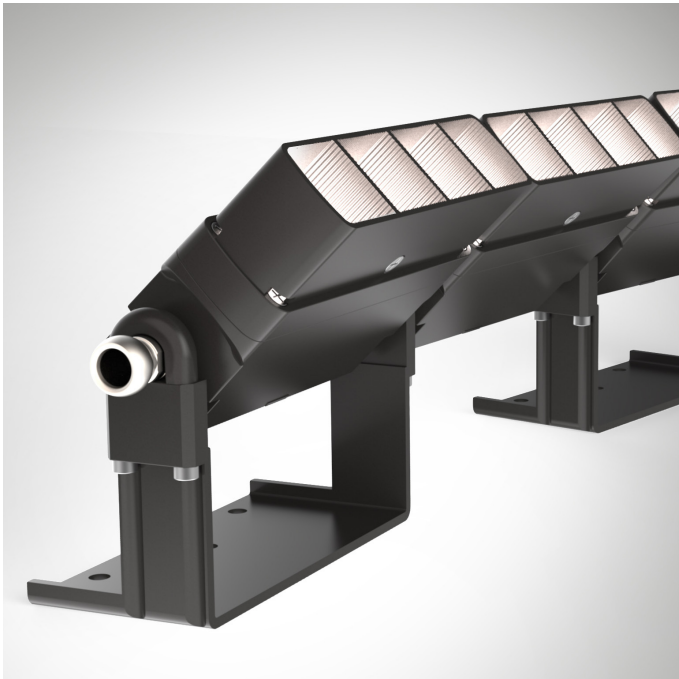
Fixed angle bracket options are also available.

Custom options are also available

The brackets are aluminium with a powder coat finish which is available in satin black, satin white or any RAL colour

The custom height adjustable angle bracket is also available in stainless steel for more demanding exterior applications. Again, this is available with a powder coat finish in satin black, satin white or any RAL colour

Product code	IP	Finish	Height of legs (mm)
RAD 3D LED FLEX 25 IP66 FIXED ANGLE BRACKET WITH DIRECT FIXING TABS AL	66	Aluminium: Black White Any RAL - colour	Custom height version only: 20mm -increments of 5mm up to- 300mm
RAD 3D LED FLEX 25 IP66 ADJUSTABLE ANGLE BRACKET STANDARD AL			
RAD 3D LED FLEX 25 IP66 ADJUSTABLE ANGLE BRACKET CUSTOM HEIGHT		Stainless steel: Black White Any RAL - colour	

3D LED Flex system 25 IP66

Anti-glare accessories

All snoots can be ordered to specific heights and can be given an angled side profile

Variable angle to order

Variable height to order

3 blade snoot

1 blade snoot

No blade snoot

3D LED FLEX 25 anti-glare accessories

For use with the 3D LED Flex 25 system IP66 to control light glare from the LEDs when the fixtures are not fully recessed

3 blade, 1 blade and no blade snoots are available

Satin black, satin white or any RAL paint colour finish

Custom height to order. Straight or any custom cut angle side-profile to order

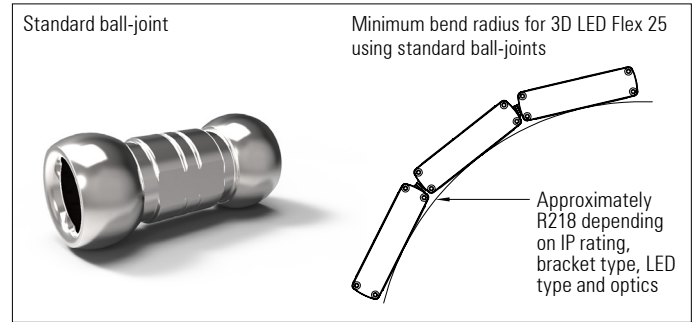| Product Code	No. of blades	IP	Height (mm)	Cut angle of side-profile (°)	Finish
RAD 3D LED FLEX 25 SNOOT	0 1 3	66	20mm -increments of 5 mm up to- 100mm	0° -increments of 5° up to- 75°	Black White Any RAL colour

Product description:

Radiant's 3D LED Flex 25 system comprises a patented articulated ball-joint system which links the heatsink modules.

The ball-joints system allows the strips to bend and twist in 3 dimensions, so that they can follow any building contours, whilst maintaining a constant LED pitch.

There are various types of ball-joint to suit different applications, some of which can be seen on this data sheet. Please contact Radiant to discuss custom solutions.

Standard ball-joint

Minimum bend radius for 3D LED Flex 25 using standard ball-joints

Approximately R218 depending on IP rating, bracket type, LED type and optics
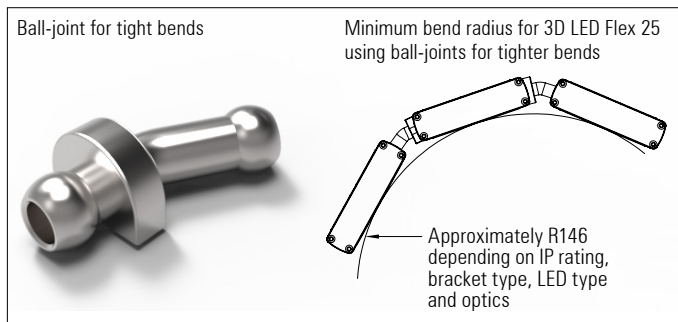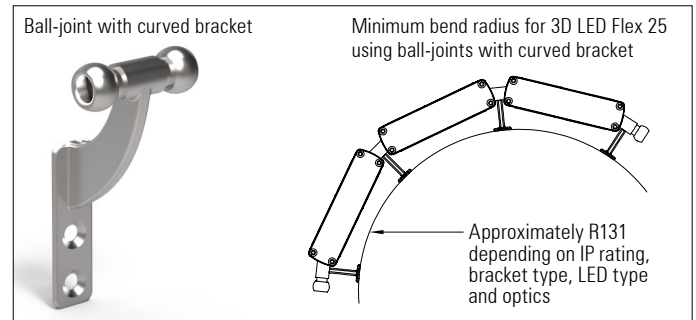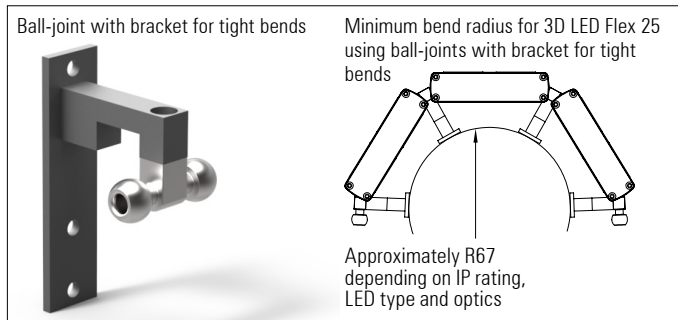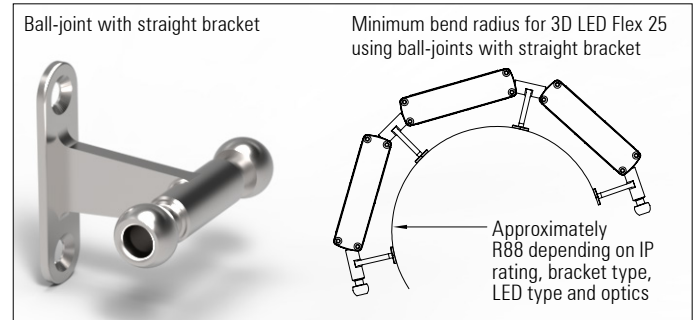
Product Code	Material	Length (mm)
STANDARD BALL-JOINT BALL-JOINT STRAIGT BRACKET BALL-JOINT BRACKET TIGHT BENDS BALL-JOINT CURVED BRACKET BALL-JOINT TIGHT BENDS BALL-JOINT LONG BALL-JOINT IN LINE FIXING	Nickel-plated brass Stainless steel	(For longer ball-joint only) 100mm 200mm 300mm Custom lengths

Ball-joint with straight bracket

Minimum bend radius for 3D LED Flex 25 using ball-joints with straight bracket

Approximately R88 depending on IP rating, bracket type, LED type and optics

Ball-joint with bracket for tight bends

Minimum bend radius for 3D LED Flex 25 using ball-joints with bracket for tight bends

Approximately R67 depending on IP rating, LED type and optics

Ball-joint with curved bracket

Minimum bend radius for 3D LED Flex 25 using ball-joints with curved bracket

Approximately R131 depending on IP rating, bracket type, LED type and optics

Ball-joint for tight bends

Minimum bend radius for 3D LED Flex 25 using ball-joints for tighter bends

Approximately R146 depending on IP rating, bracket type, LED type and optics

Ball-joint with in-line fixing bosses

Minimum bend radius for 3D LED Flex 25 using ball-joints with inline fixing bosses

Approximately R214 depending on IP rating, bracket type, LED type and optics

Longer ball-joint

Standard lengths:
100mm
200mm
300mm
(Custom lenths to order)

Minimum bend radius for 3D LED Flex 25 IP20 with 100mm long ball-joints

Approximately R966 depending on IP rating, bracket type, LED type and optics

200

Edited 3 April 2019

Products and literature designed by
DAVID MORGAN ASSOCIATES

LARISA-RS-CLIP16

~19° real spot beam. Clip fastening for 1.6 mm thick PCB

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	7.5 mm
Fastening	clips
Colour	black
Box size	
Box weight	5.8 kg
Quantity in Box	10000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LARISA-RS	Single lens	PMMA	clear
LARISA-HOLDER-CLIP16	Holder	PC	black

PHOTOMETRIC DATA (SIMULATED):

CREE ⇕

LED	XP-E
FWHM	15.0°
Efficiency	92 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
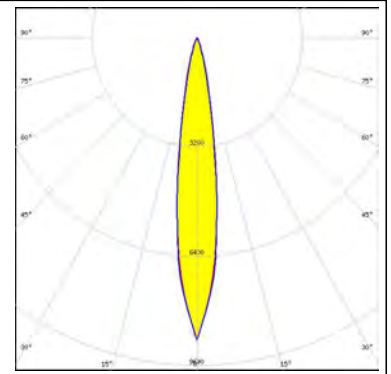
LARISA-M-CLIP16

~30° medium beam. Clip fastening for 1.6 mm thick PCB.

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	7.5 mm
Fastening	clips
Colour	black
Box size	
Box weight	6.6 kg
Quantity in Box	10000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LARISA-M	Single lens	PMMA	clear
LARISA-HOLDER-CLIP16	Holder	PC	black

PHOTOMETRIC DATA (SIMULATED):

CREE

LED	XP-E
FWHM	23.0°
Efficiency	94 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
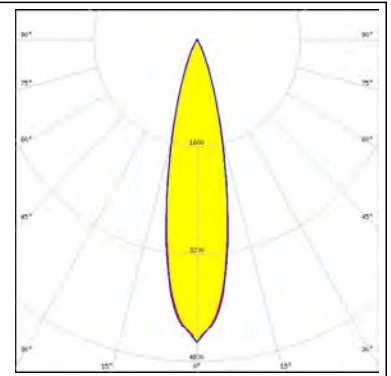
LARISA-O-CLIP16

~40° x 20° oval beam. Clip fastening for 1.6 mm thick PCB.

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	7.5 mm
Fastening	clips
Colour	black
Box size	300 x 260 x 260 mm
Box weight	6.6 kg
Quantity in Box	10000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LARISA-O	Single lens	PMMA	clear
LARISA-HOLDER-CLIP16	Holder	PC	black

PHOTOMETRIC DATA (SIMULATED):

CREE

LED	XP-E
FWHM	39.0 + 17.0°
Efficiency	89 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
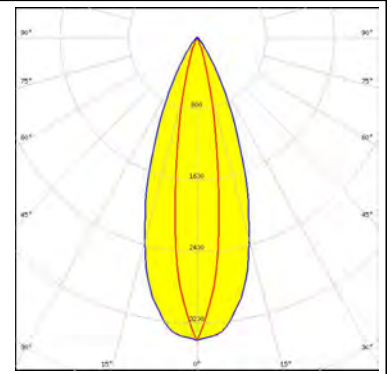
LARISA-W-CLIP16

~50° wide beam. Clip fastening for 1.6 mm thick PCB

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 mm
Height	7.5 mm
Fastening	glue, clips
Colour	black
Box size	
Box weight	6.6 kg
Quantity in Box	10000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LARISA-W	Single lens	PMMA	clear
LARISA-HOLDER-CLIP16	Holder	PC	black

PHOTOMETRIC DATA (SIMULATED):

CREE ⇕

LED	XP-E
FWHM	39.0°
Efficiency	95 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
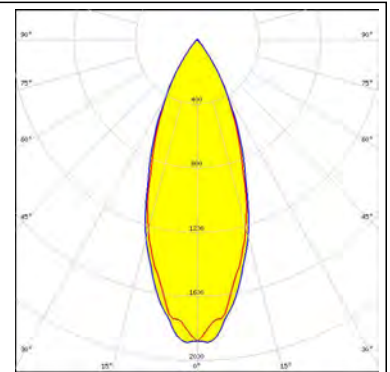
OSRAM
Opto Semiconductors

LED	Oslon SSL 80
FWHM	49.0°
Efficiency	83 %
Peak intensity	1.160 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
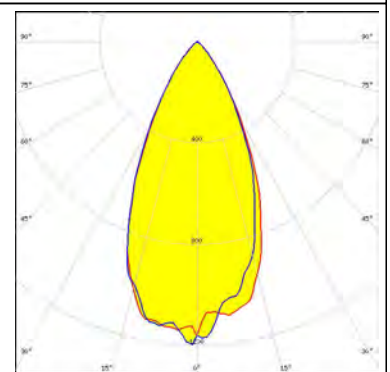
LISA2-O-PIN

~45° x 20° oval beam. 6.8 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-O-XP	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XD16
FWHM	50.0 + 20.0°
Efficiency	66 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
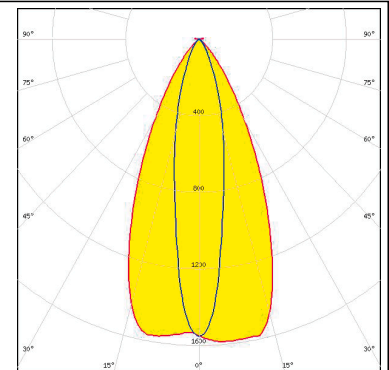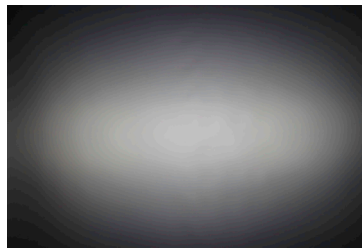
CREE

LED	XP-E
FWHM	18.0 + 48.0°
Efficiency	83 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
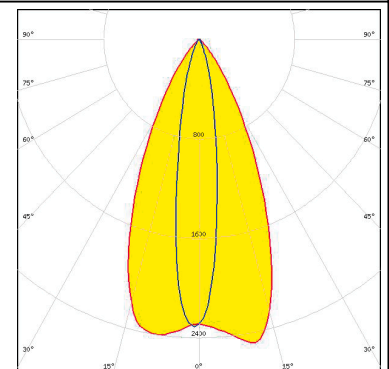
CREE

LED	XP-G
FWHM	46.0 + 24.0°
Efficiency	86 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE

LED	XP-G3
FWHM	47.0 + 26.0°
Efficiency	69 %
Peak intensity	1.300 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
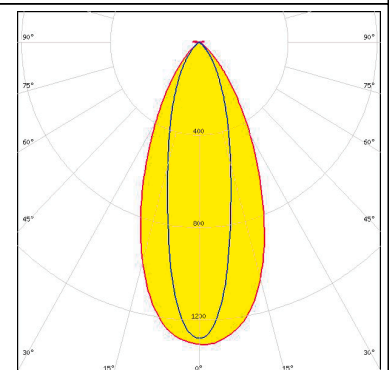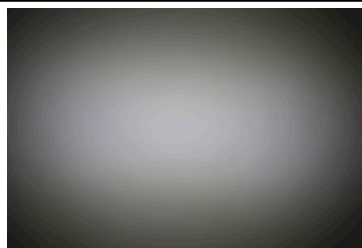
LISA2-O-90-PIN

~20° x 50° oval beam. Variant with beam direction rotated 90°. 6.8 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-O-XP	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE	
LED	XP-E
FWHM	48.0 + 18.0°
Efficiency	83 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
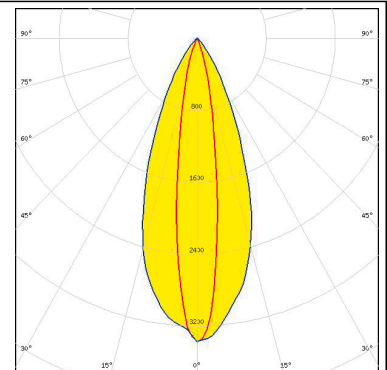
CREE	
LED	XP-G
FWHM	48.0 + 18.0°
Efficiency	86 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS	
LED	LUXEON Z ES
FWHM	18.0 + 49.0°
Efficiency	80 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
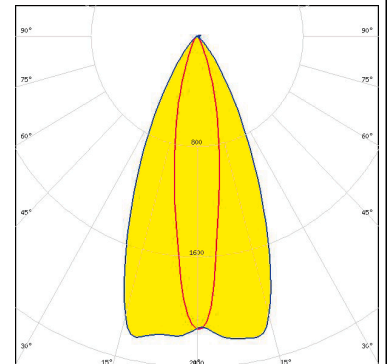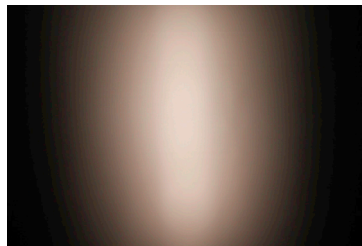
LISA2-M-PIN

~20° medium beam. 6.8 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	310 x 230 x 60 mm
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-M	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE⇕

LED	XB-D
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.740 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE⇕

LED	XD16
FWHM	24.0°
Efficiency	74 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
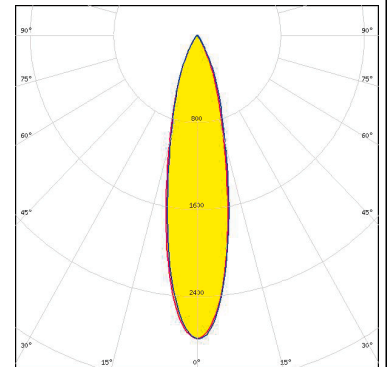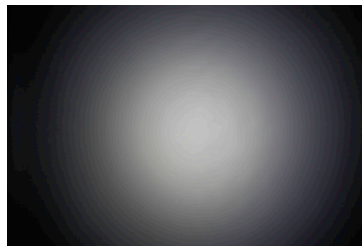
CREE⇕

LED	XP-E
FWHM	24.0°
Efficiency	92 %
Peak intensity	0.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
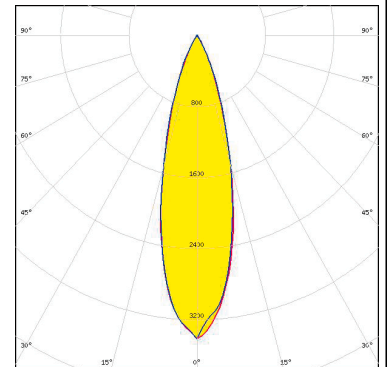
CREE⇕

LED	XP-G
FWHM	34.0°
Efficiency	91 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
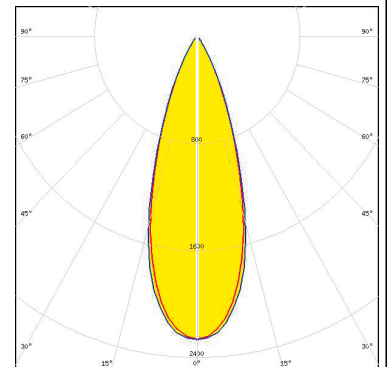
LISA2-W-PIN

~35° wide beam. 6.8 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-W	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XB-D
FWHM	32.0°
Efficiency	86 %
Peak intensity	1.930 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE

LED	XD16
FWHM	37.0°
Efficiency	77 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
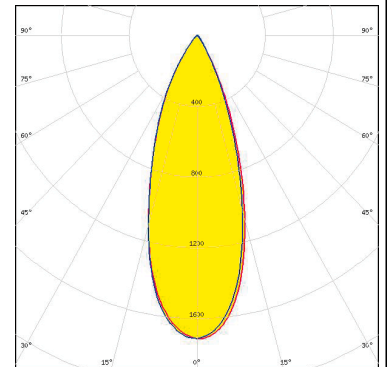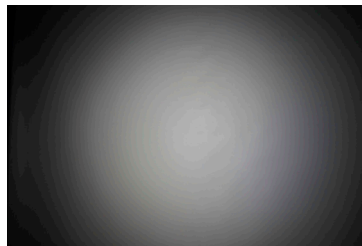
CREE

LED	XP-E
FWHM	37.0°
Efficiency	90 %
Peak intensity	1.960 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
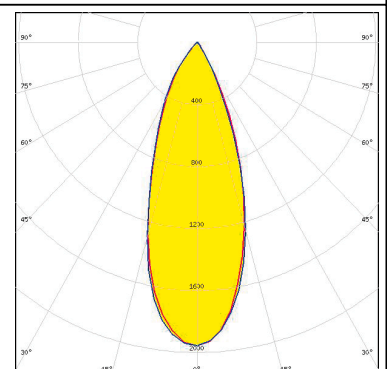
CREE

LED	XP-G
FWHM	48.0°
Efficiency	92 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LISA2-WW-PIN

~45° wide beam. 7.0 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	glue, pin
Colour	black
Box size	310 x 230 x 60 mm
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-WW	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XB-D
FWHM	38.0°
Efficiency	85 %
Peak intensity	1.330 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE

LED	XD16
FWHM	35.0°
Efficiency	78 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
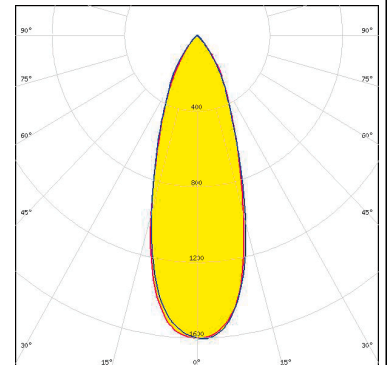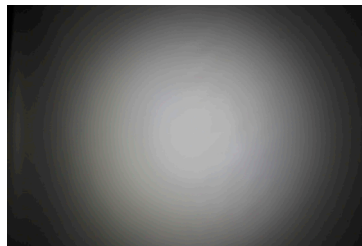
CREE

LED	XP-E
FWHM	42.0°
Efficiency	91 %
Peak intensity	1.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
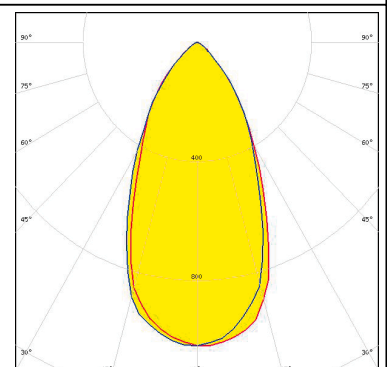
CREE

LED	XP-G
FWHM	54.0°
Efficiency	90 %
Peak intensity	0.900 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
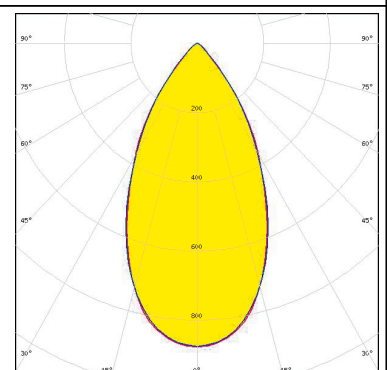
LISA2-WWW-PIN

~80° wide beam. 7.0 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	glue, pin
Colour	black
Box size	
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-WWW	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XB-D
FWHM	73.0°
Efficiency	71 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

CREE

LED	XD16
FWHM	66.0°
Efficiency	66 %
Peak intensity	0.550 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
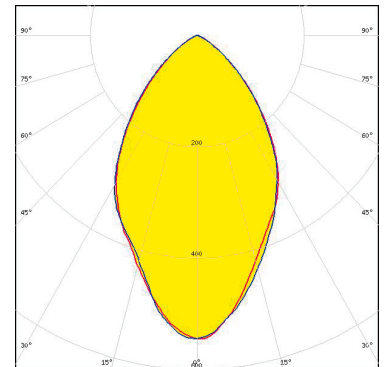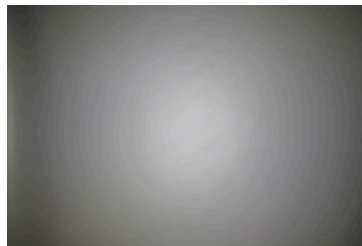
CREE

LED	XP-E
FWHM	84.0°
Efficiency	77 %
Peak intensity	0.500 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
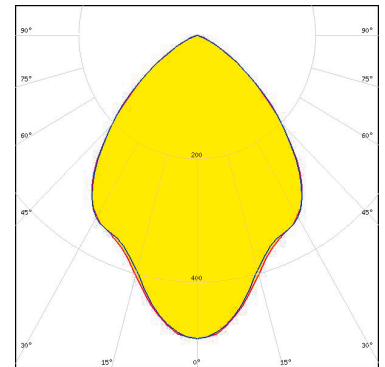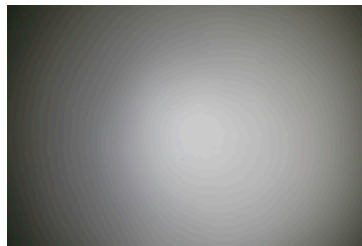
CREE

LED	XP-G
FWHM	86.0°
Efficiency	75 %
Peak intensity	0.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
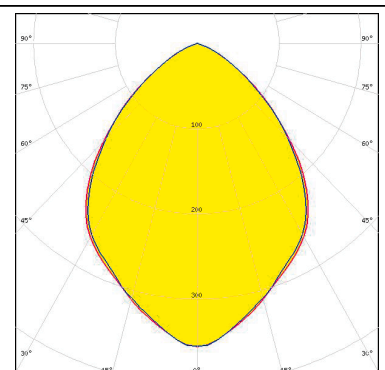
LISA2-RS-PIN

~19° spot beam. 6.8 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
Colour	black
Box size	310 x 230 x 60 mm
Box weight	1.4 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
LISA2-RS	Single lens	PMMA	clear
LISA2-HLD-PIN	Holder	PC	black

PHOTOMETRIC DATA (MEASURED):

CREE⇕

LED	XD16
FWHM	15.0°
Efficiency	70 %
Peak intensity	4.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
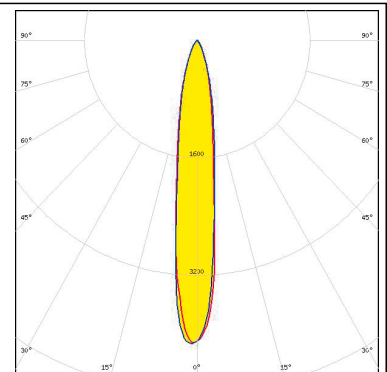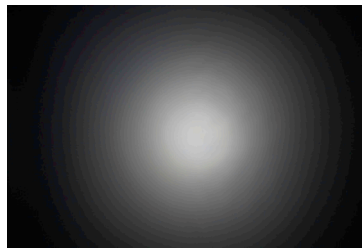
CREE⇕

LED	XP-E
FWHM	16.0°
Efficiency	90 %
Peak intensity	6.500 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
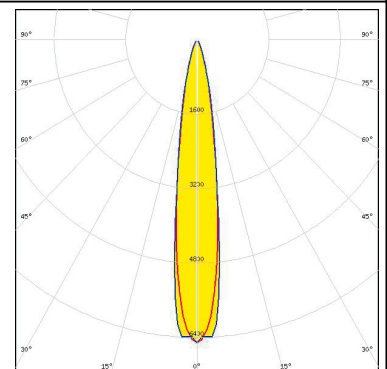
CREE⇕

LED	XP-G
FWHM	24.0°
Efficiency	90 %
Peak intensity	cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
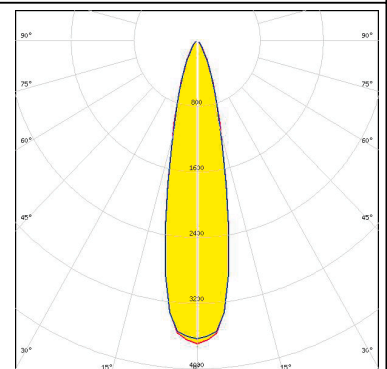
CREE⇕

LED	XQ-E HI
FWHM	11.0°
Efficiency	86 %
Peak intensity	11.500 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	