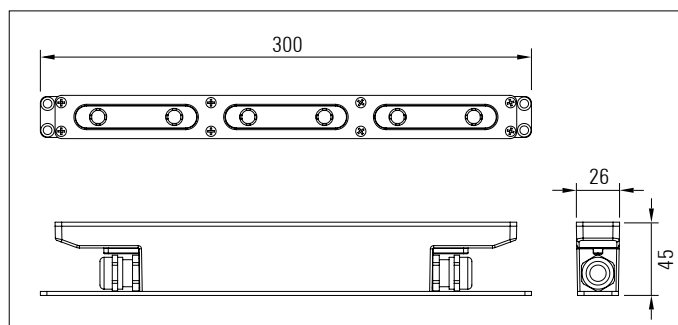
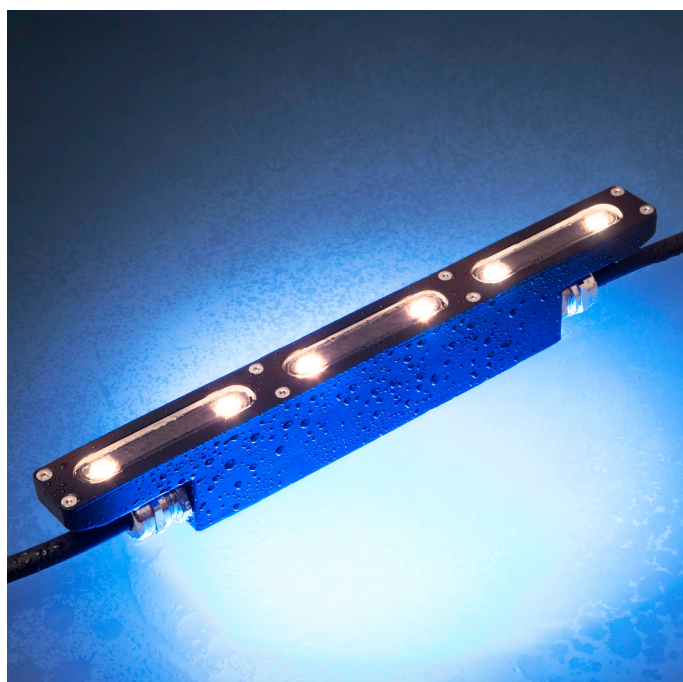


Euclid 30 IP68

3 or 6 x high power LEDs with lenses per 300mm module

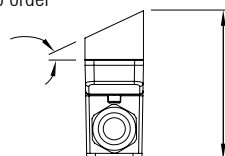
Underwater IP68 LED linear lighting system



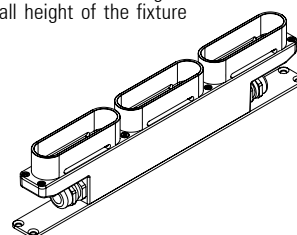
Anti-glare snoot

The snoot can be ordered to custom heights (the maximum overall height of the fixture being 53mm)

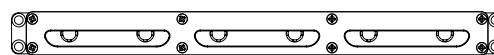
Variable angle to order



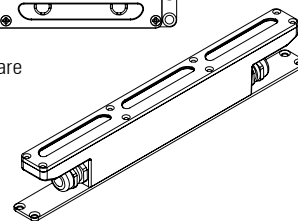
Up to 53mm



Anti-glare eyelid cover

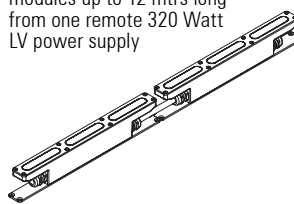


Half eyelid diffuser to reduce upward glare when the system is aimed horizontally



Cable connection between modules

Continuous strips of connected modules up to 12 mtrs long from one remote 320 Watt LV power supply



Up to 1,500 Lumens per Mtr

3 or 6 x high power LEDs with lenses per 300mm module

Underwater IP68 LED linear lighting system

Product description:

For use in underwater applications where linear lines of light are required

Submersible up to 2 mtrs depth

Each 300mm module comprises 3 or 6 x Cree XPE, XPG or XQE LEDs with Ledil Lisa lenses

Operating Voltage: 12, 24 or 30 V DC input with remote power supply

Up to 25 watts per metre with 46mm pitch LED's at 350mA drive current

System components cast in 316 L stainless steel - suitable for use in saline and chlorine environments including pools, fountains and marine projects

Integral LV constant current driver - internal driver boards are potted in silicone resin

Continuous strips of connected modules up to 12 mtrs long from one remote 320 Watt LV power supply

17.5 Amp IP68 connectors join strips together on-site

Various LED colour temperature and CRI options available

Mounting options include adjustable or fixed angle brackets

An anti-glare snoot or eyelid cover can be used, providing excellent visual comfort

Various dimming options available: 1 - 10, DALI, DMX. Separate dimming channel

Black, white or any RAL paint colour finish

Low iron UV block pressed glass windows are bonded to the module bodies

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

Product Code	No. of LEDs	IP	Length (mm)	LED Type	Colour Temp. (K)	CRI	Optics (°)	Cover	Fixing Type	Feed	Finish
EUCLID 30 IP68 HP - 6L	6 LEDs per 300mm module	68	300mm	Cree: XPE XPG XQE	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	Ledil: Lisa2 (See attached Ledil data sheets for details)	Clear	Direct fixing Custom	End Back Side	Black White Any RAL-colour
EUCLID 30 IP68 HP - 3L	3 LEDs per 300mm module										

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 ⓘ



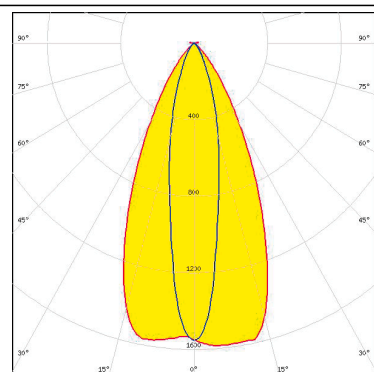
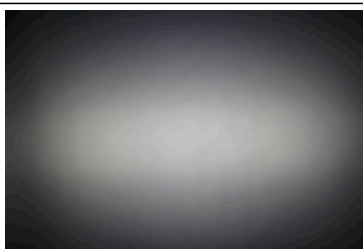
MATERIAL SPECIFICATIONS:

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

PHOTOMETRIC DATA (MEASURED):

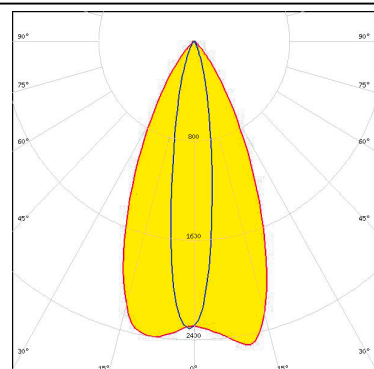
CREE

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:

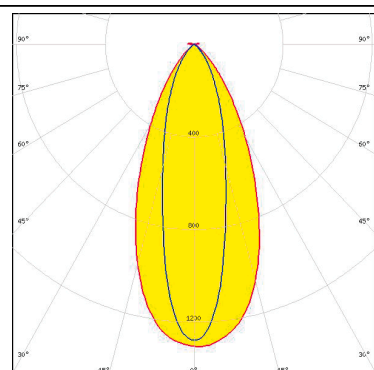
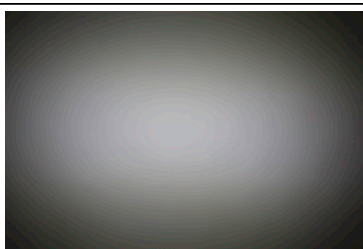


CREE

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 ⓘ



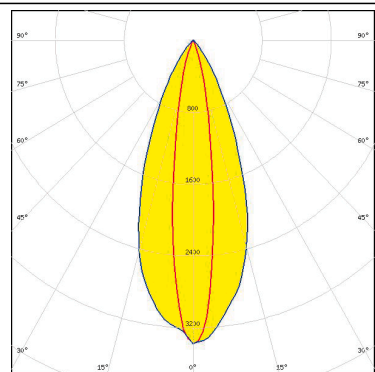
MATERIAL SPECIFICATIONS:

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

PHOTOMETRIC DATA (MEASURED):



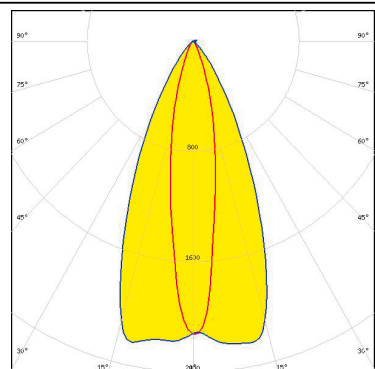
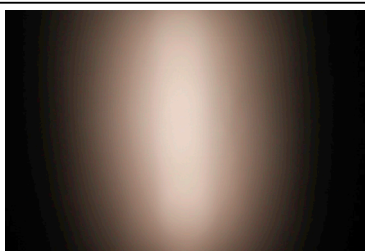
LED XP-E
FWHM 48.0 + 18.0°
Efficiency 83 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



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

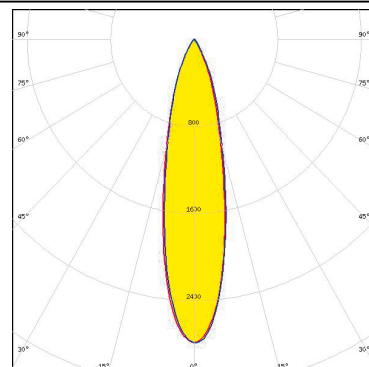
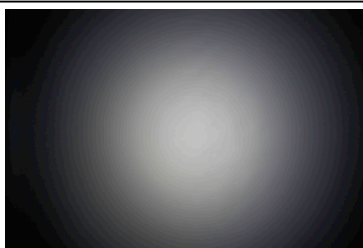
PHOTOMETRIC DATA (MEASURED):

CREE

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

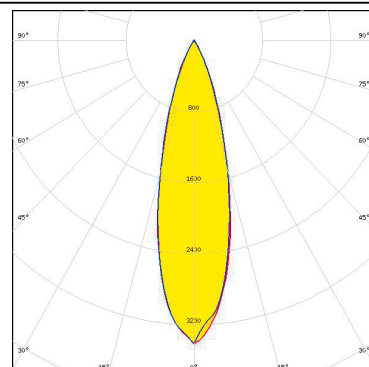
CREE

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



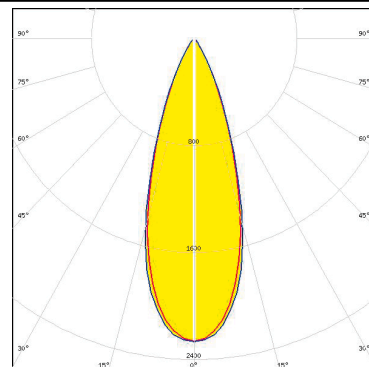
CREE

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

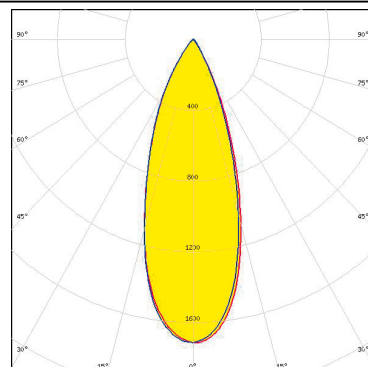
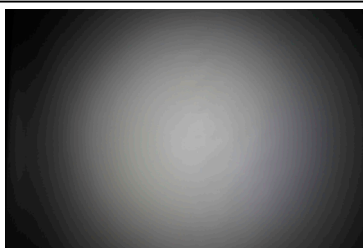
PHOTOMETRIC DATA (MEASURED):

CREE

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

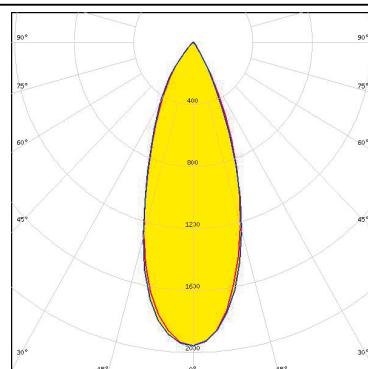
CREE

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

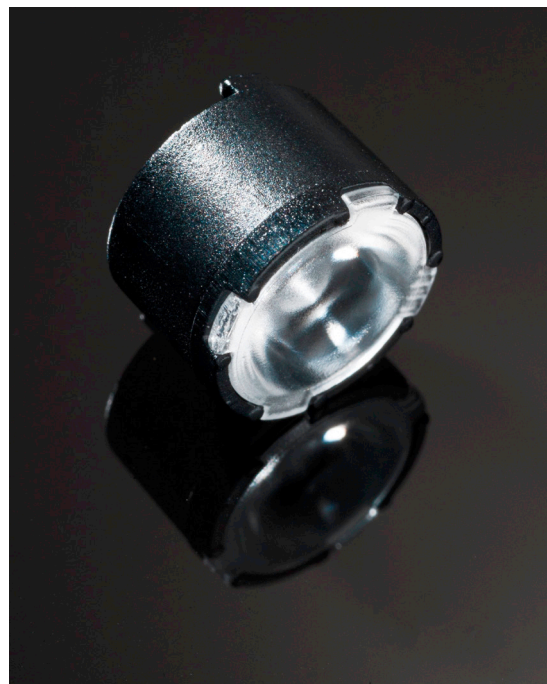
LED XP-G
FWHM 48.0°
Efficiency 92 %
Peak intensity cd/lm
LEDs/each optic 1
Light colour White
Required components:

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

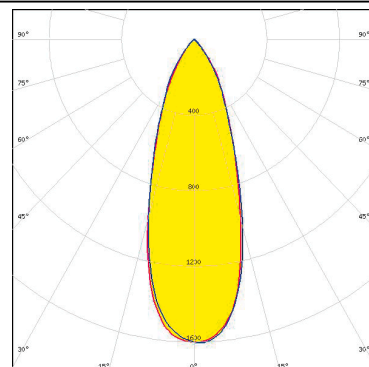
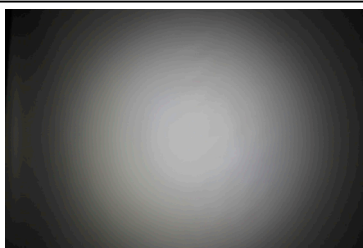
PHOTOMETRIC DATA (MEASURED):

CREE

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

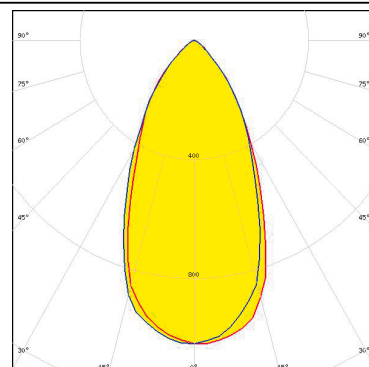
CREE

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



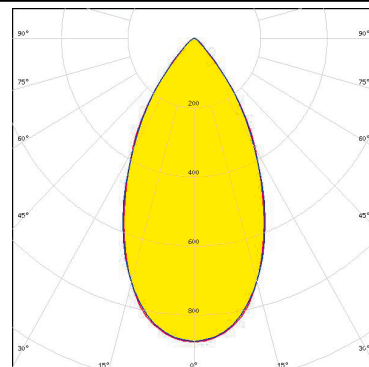
CREE

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

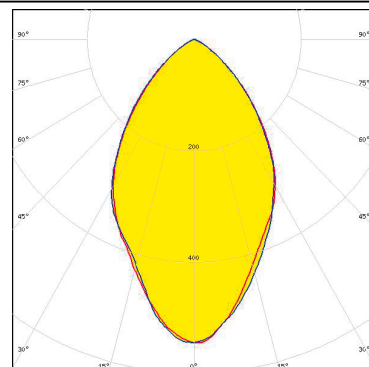
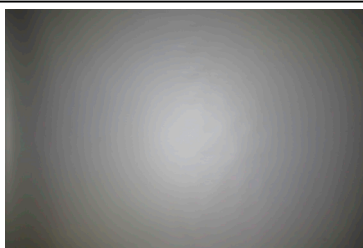
PHOTOMETRIC DATA (MEASURED):

CREE

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

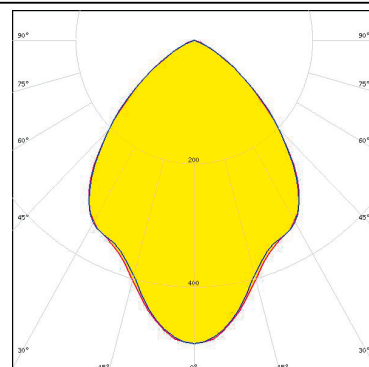
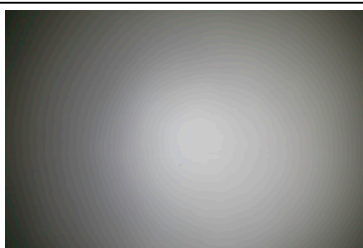
CREE

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



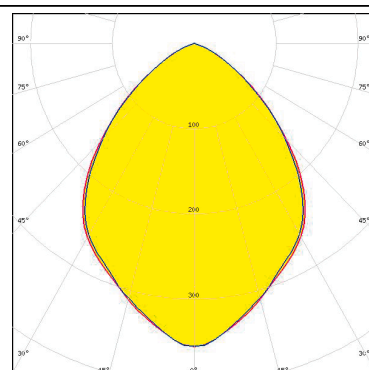
CREE

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 ⓘ



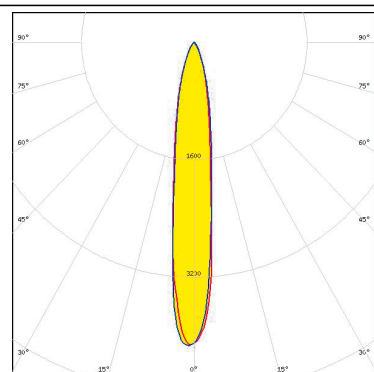
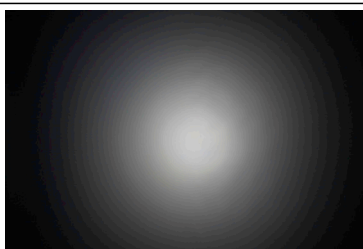
MATERIAL SPECIFICATIONS:

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

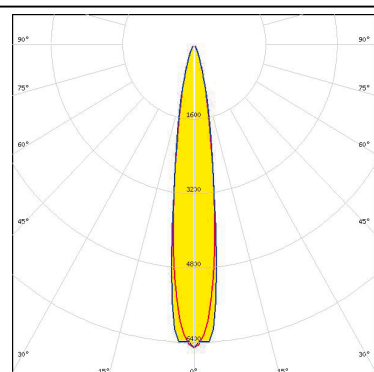
PHOTOMETRIC DATA (MEASURED):



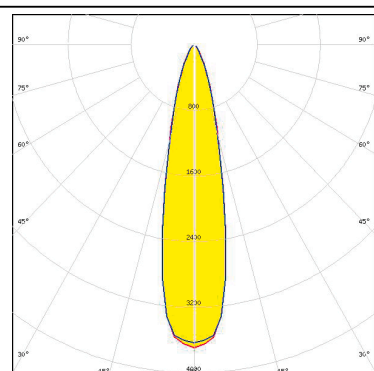
LED XD16
FWHM 15.0°
Efficiency 70 %
Peak intensity 4.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



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



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

