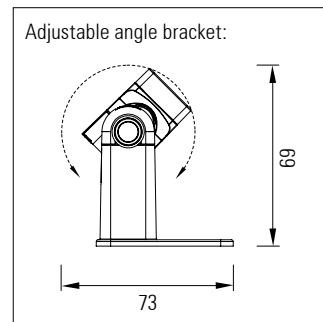# RADIANT
ARCHITECTURAL LIGHTING

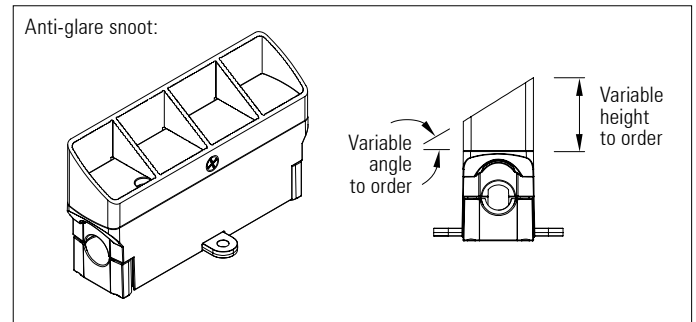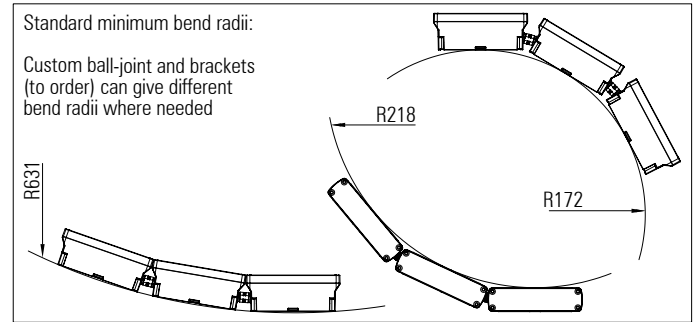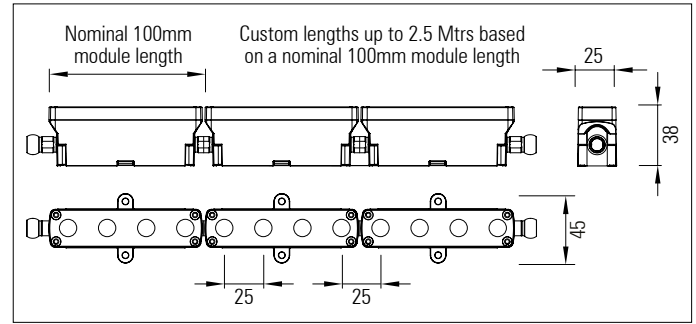# 3D LED Flex 25 IP20
2 or 4 x high power LEDs with lenses per module
Modular, 3D flexible LED linear lighting system

2 or 4 x high power LEDs with lenses per module

Modular, 3D flexible LED linear lighting system

Product description:

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

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

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. 16 Amp IP20 connectors join fixtures together on-site

Integral LV constant current driver

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

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

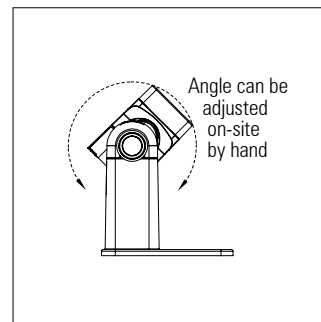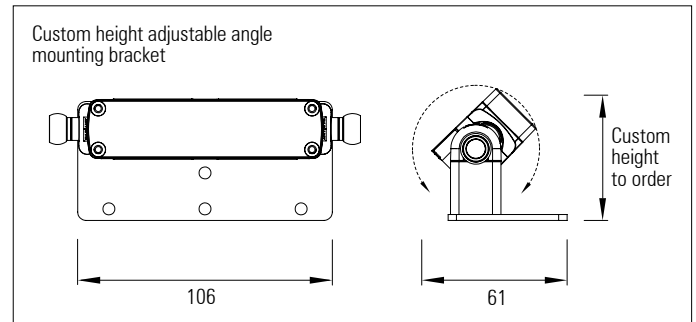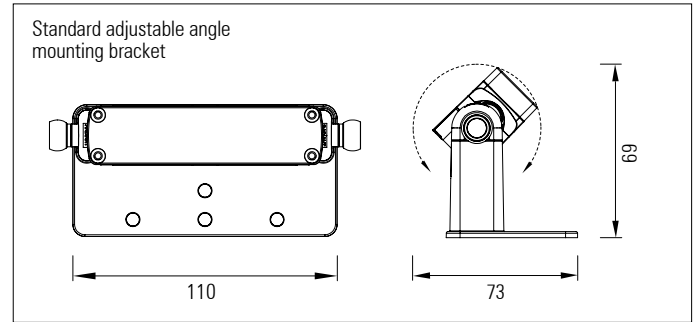Various mounting options and bracket types are available

* RGB, RGBW, RGBA and Dynamic-white options do not use a colour mixing lens. For colour mixing lens versions see the data sheets for the 3D LED Flex 40 or 100 IP20 with 1 x RGBW LED array with colour-blending lens per module

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

Standard minimum bend radii:

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

R218 R631 R172

Anti-glare snoot:

Variable height to order

Variable angle to order

Adjustable angle bracket:

Up to 2,500 Lumens per Mtr

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 IP20 HP - 4 L

RAD 3D LED FLEX 25 IP20 HP - 2 L | 40 LEDs per Mtr: 25mm pitch

20 LEDs per Mtr: 50mm pitch | 20 | 100mm

-increments of 100mm up to-

2,500mm | Cree: XP-E XP-G XQ-E

Osram: Oslon | N, M, W, E,

(See attached Ledil data sheets for details)

Contact Radiant for more options | 27=2,700k 30=3,000k 35=3,500k 40=4,000k 45=4,500k 50=5,000k * RGB * RGBW * RGBA * Dynamic white | Cree: 80 90

Osram: 95 | Clear | Fixed Adjustable Custom | End Back Side | Black White Any RAL-colour |

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EN 60598 CE
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Edited 9 May 2019

Products and literature designed by
DAVID MORGAN ASSOCIATES

3D LED Flex 25 IP20
2 or 4 x high power LEDs with lenses per module
Adjustable-angle mounting bracketry

Standard adjustable angle mounting bracket

110   73   69

Custom height adjustable angle mounting bracket

106   61   Custom height to order

Angle can be adjusted on-site by hand

Adjustable angle mounting bracketry for 3D LED Flex 25 IP20 with 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. Once they have been fixed to the building surface, 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 by hand easily on-site. The friction ball-joint system keeps the modules correctly positioned.

A standard height version and a custom height version are available.

Custom options are also available.

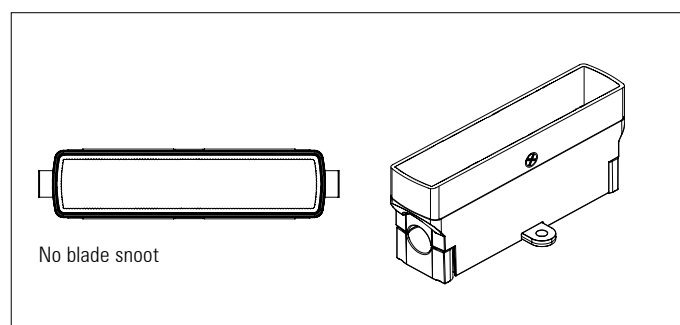The standard height bracket is made from polycarbonate and is available in black or white.
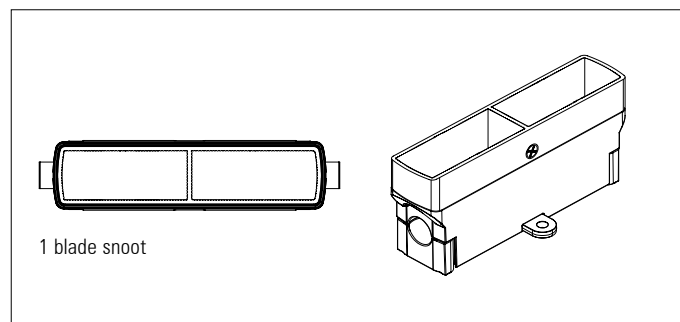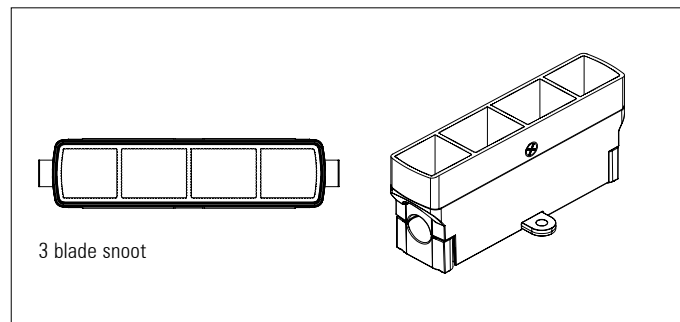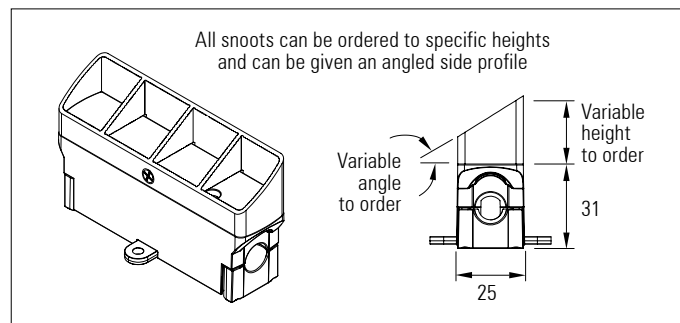
The custom-height bracket is made from aluminium with a powder coat finish which is available in satin black, satin white or any RAL paint colour finish.

Product code	IP	Finish	Height of legs (mm)
RAD 3D LED FLEX 25 IP20 ADJUSTABLE ANGLE BRACKET STANDARD PC RAD 3D LED FLEX 25 IP20 ADJUSTABLE ANGLE BRACKET CUSTOM HEIGHT AL	20	Polycarbonate: Black White Aluminium: Black White Any RAL colour	Custom height version only: 20mm -increments of 5mm up to- 300mm

3D LED Flex 25 IP20
2 or 4 x high power LEDs with lenses per module
Anti-glare accessories

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

Variable
height
to order

Variable
angle
to order

31

25

3D LED FLEX 25 anti-glare accessories

For use with the 3D LED Flex 25 system IP20 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

3 blade snoot

1 blade snoot

| Product Code	No. of blades	IP	Height (mm)	Angle	Finish
RAD 3D LED FLEX 25 SNOOT	0 1 3	20	20mm -increments of 5 mm up to- 80mm	0° -increments of 5° up to- 75°	Black White Any RAL-colour

No blade snoot

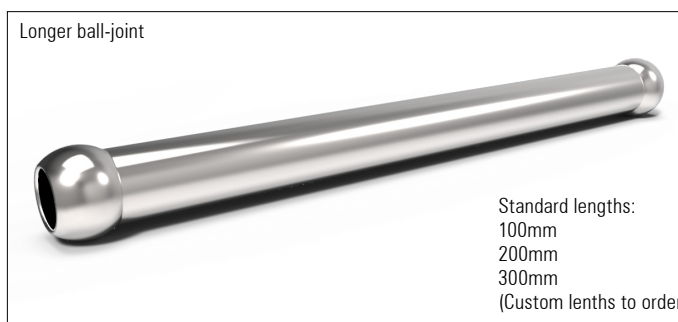# 3D LED Flex 25 System
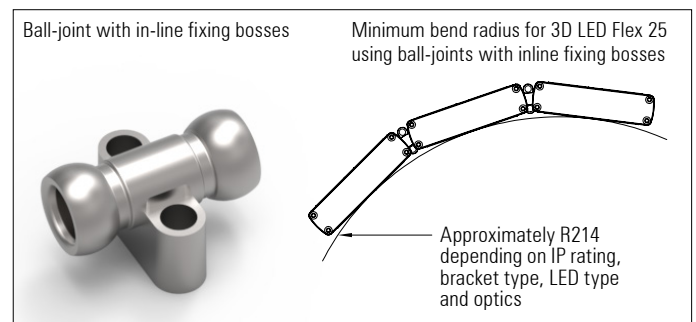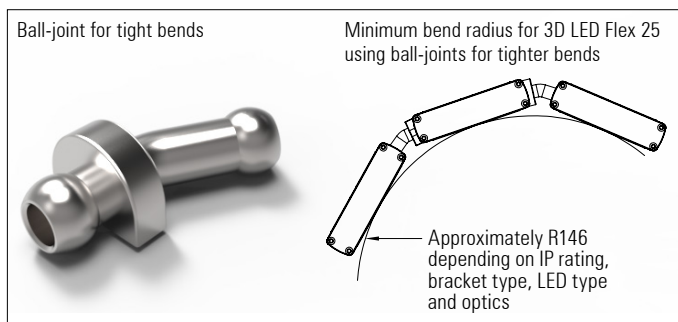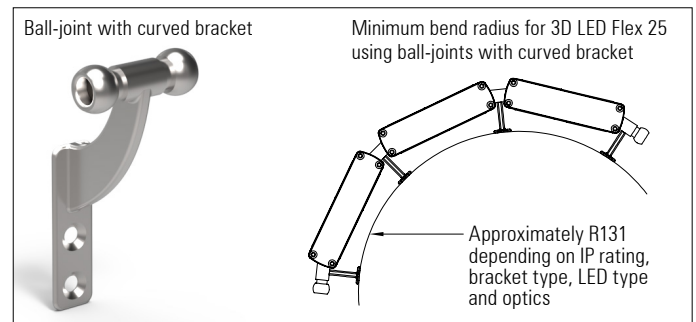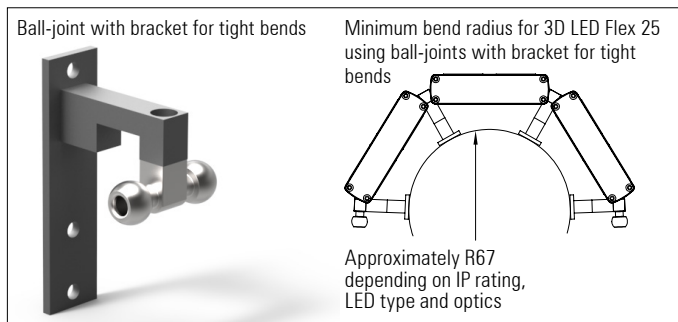
Ball-joint types

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.
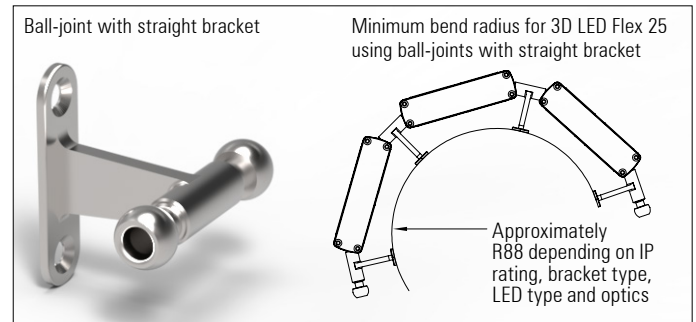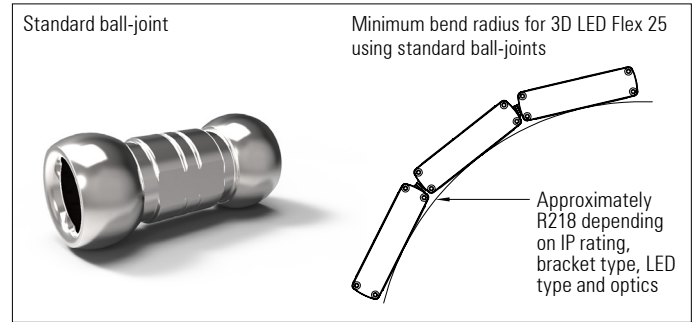
Product Code	Material	Length (mm)
STANDARD BALL-JOINT BALL-JOINT STRAIGT BRACKET BALL-JOINT BRACKET TIGHT BENDS BALL-JOINT CURVED BRACKET BALL-JOINT TIGHT BENDS BALL-JOINT LONG BALL-JOINT IN LINE FIXING	Nickel-plated brass Stainless steel	(For longer ball-joint only) 100mm 200mm 300mm Custom lengths

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

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

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:	
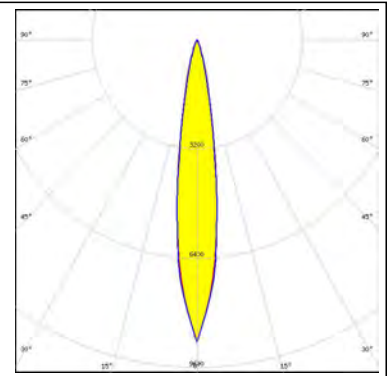
LARISA-M-CLIP16

~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:	
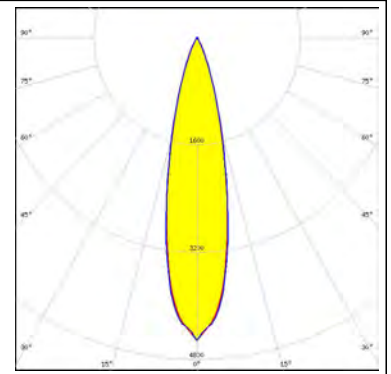
LARISA-O-CLIP16

~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:	
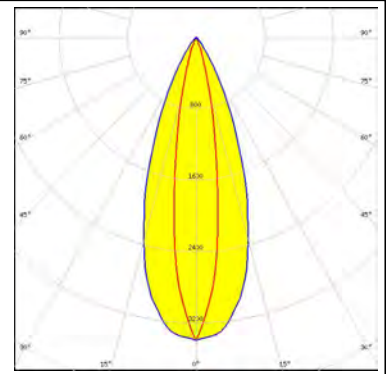
LARISA-W-CLIP16

~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:	
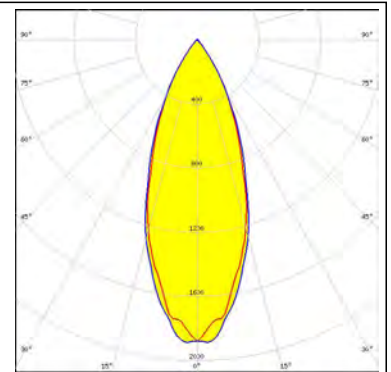
OSRAM
Opto Semiconductors

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