EMERALD-A

Asymmetric beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	6.9 mm
Fastening	glue, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	4.6 kg
Quantity in Box	2016 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
EMERALD-A	Single lens	PMMA	clear

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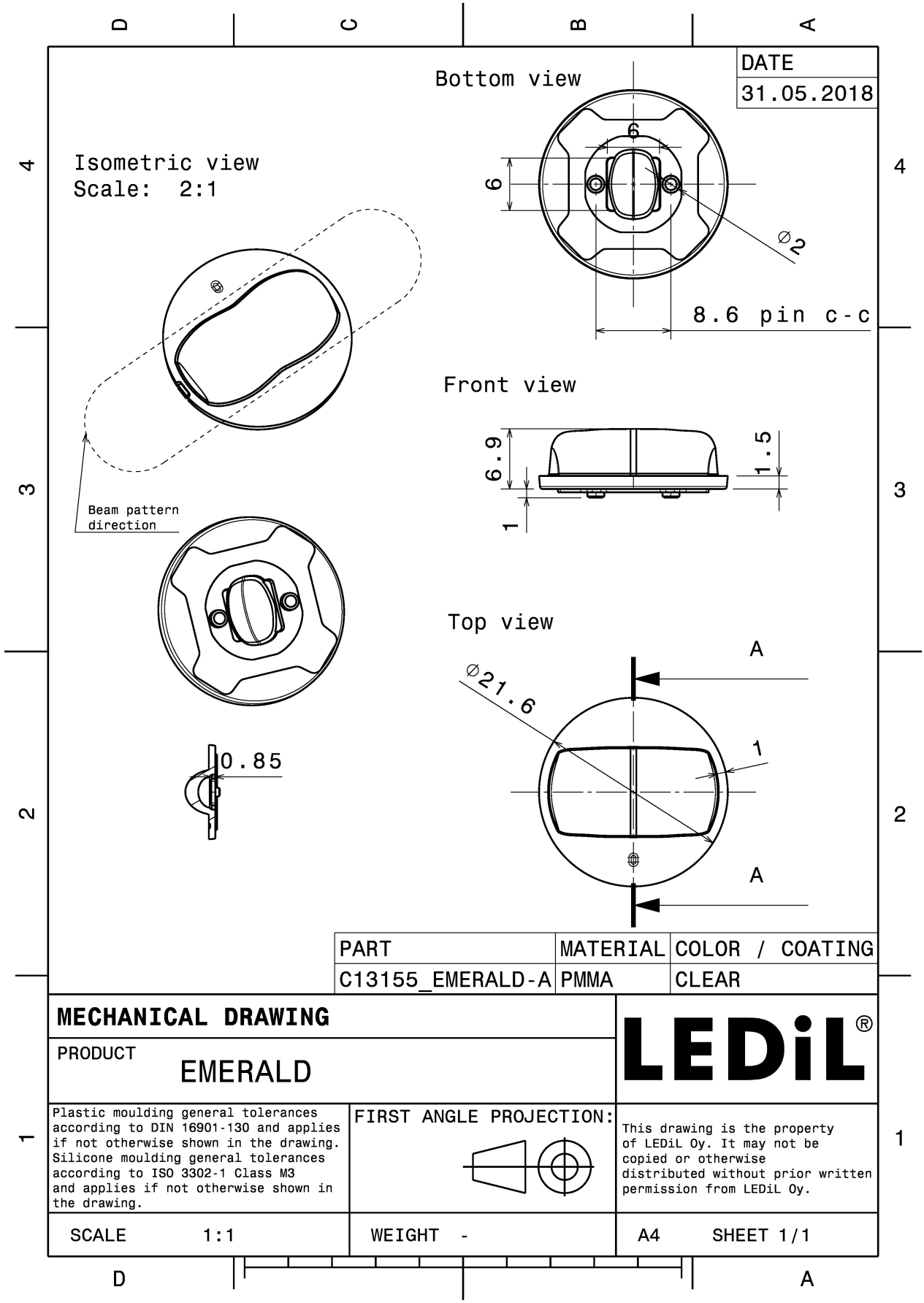
D
C
B
A
4
3
2
1
DATE
31.05.2018
Bottom view
6
6
Ø2
8.6 pin c-c
Isometric view
Scale: 2:1
Beam pattern direction
Front view
6.9
1.5
1
Top view
A
Ø21.6
1
A
0.85
PART
MATERIAL
COLOR / COATING
C13155_EMERALD-A
PMMA
CLEAR
MECHANICAL DRAWING
PRODUCT
EMERALD
LEDiL®
Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.
FIRST ANGLE PROJECTION:
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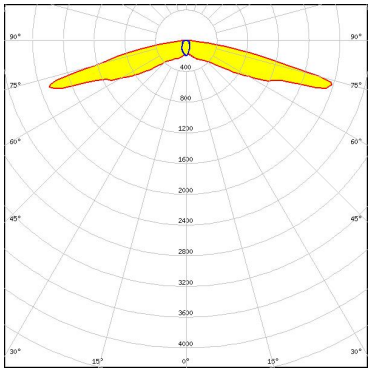
SCALE 1:1
WEIGHT -
A4 SHEET 1/1

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XB-D
FWHM	157.0 + 62.0°
Efficiency	90 %
Peak intensity	2.000 cd/lm
LEDs/each optic	1
Light colour	White

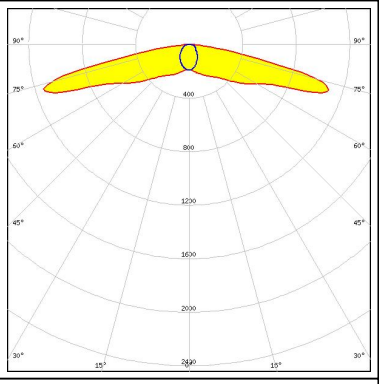
Required components:



CREE

LED	XM-L
FWHM	157.0 + 83.0°
Efficiency	94 %
Peak intensity	1.100 cd/lm
LEDs/each optic	1
Light colour	White

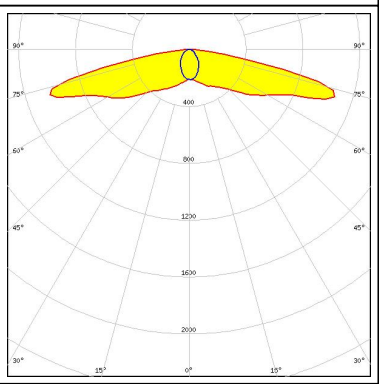
Required components:



CREE

LED	XM-L2
FWHM	169.0 + 73.0°
Efficiency	94 %
Peak intensity	1.100 cd/lm
LEDs/each optic	1
Light colour	White

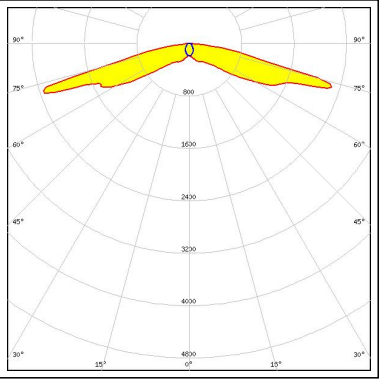
Required components:



CREE

LED	XP-E
FWHM	158.0 + 73.0°
Efficiency	93 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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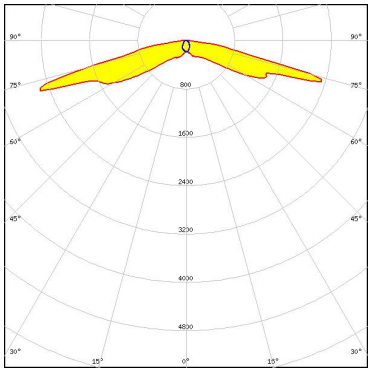
PHOTOMETRIC DATA (MEASURED):

CREE

LED	XP-E2
FWHM	156.0 + 72.0°
Efficiency	93 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

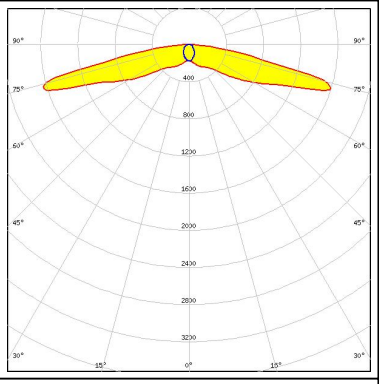
Required components:



CREE

LED	XP-G
FWHM	159.0 + 79.0°
Efficiency	89 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

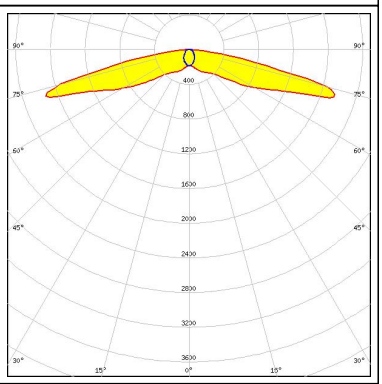
Required components:



CREE

LED	XP-G2
FWHM	158.0 + 79.0°
Efficiency	94 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

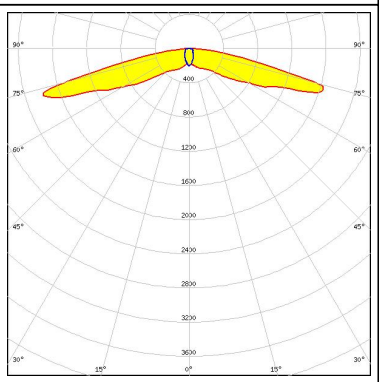
Required components:



CREE

LED	XT-E
FWHM	157.0 + 61.0°
Efficiency	89 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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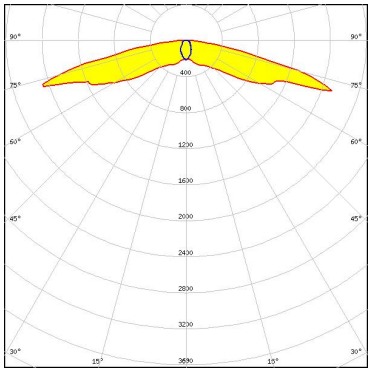
PHOTOMETRIC DATA (MEASURED):

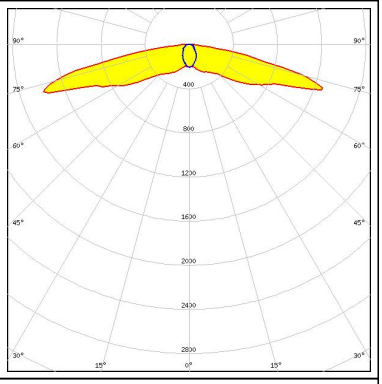
LG Innotek

LED	H35B0 (LEMWA32)
FWHM	160.0 + 66.0°
Efficiency	94 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



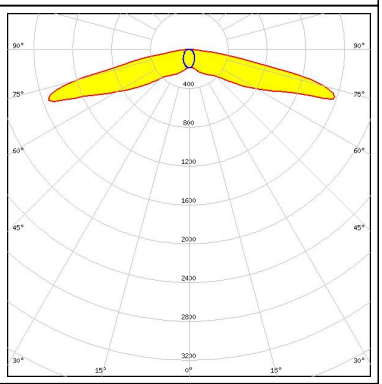
LG Innotek

LED	H35C0 (LEMWA33)
FWHM	159.0 + 72.0°
Efficiency	91 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



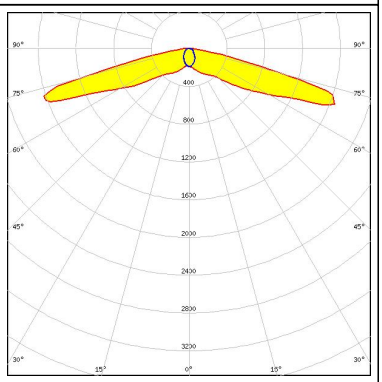
LUMILEDS

LED	LUXEON A
FWHM	156.0 + 75.0°
Efficiency	92 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON R
FWHM	153.0 + 73.0°
Efficiency	92 %
Peak intensity	1.650 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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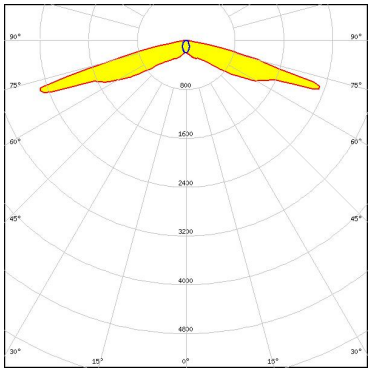
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON Rebel
FWHM	152.0 + 67.0°
Efficiency	92 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White

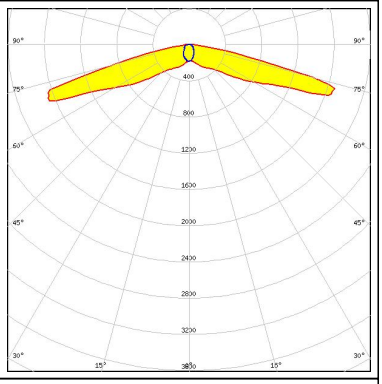
Required components:



LUMILEDS

LED	LUXEON Rebel ES
FWHM	153.0 + 74.0°
Efficiency	90 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White

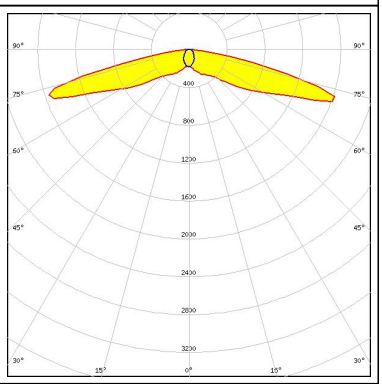
Required components:



LUMILEDS

LED	LUXEON T
FWHM	155.0 + 76.0°
Efficiency	93 %
Peak intensity	2.300 cd/lm
LEDs/each optic	1
Light colour	White

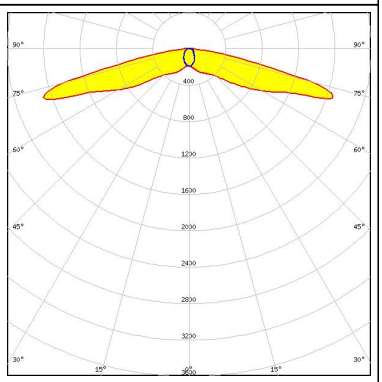
Required components:



LUMILEDS

LED	LUXEON TX
FWHM	156.0 + 73.0°
Efficiency	94 %
Peak intensity	1.690 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

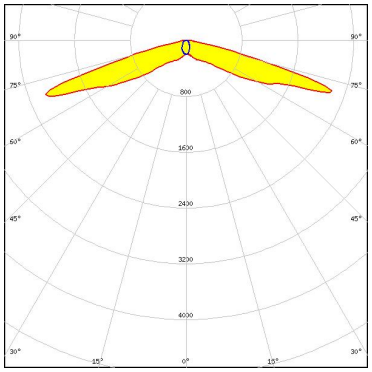


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

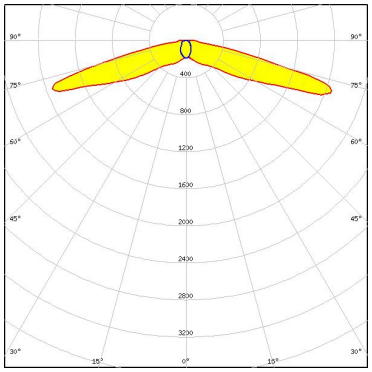
NICHIA

LED	NCSxx19A
FWHM	151.0 + 65.0°
Efficiency	92 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



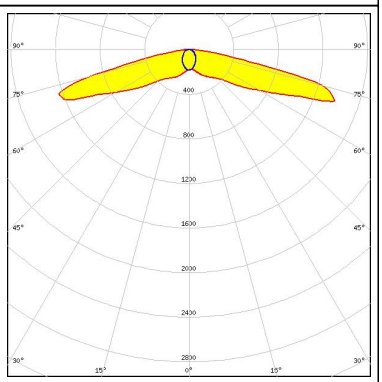
NICHIA

LED	NVSxx19A
FWHM	153.0 + 71.0°
Efficiency	91 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



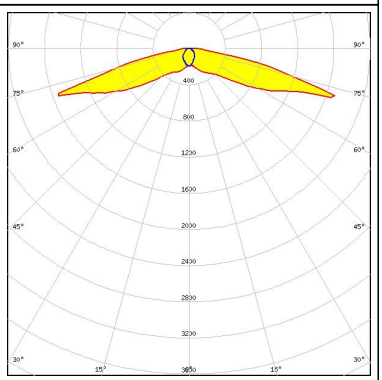
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM	155.0 + 80.0°
Efficiency	92 %
Peak intensity	1.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Oslon Square EC
FWHM	156.0 + 80.0°
Efficiency	93 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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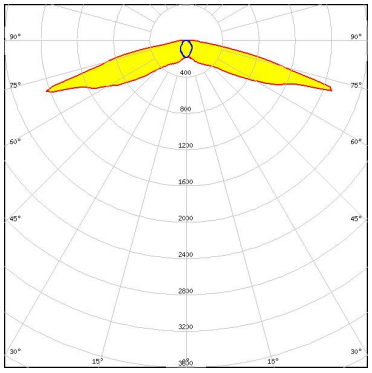
PHOTOMETRIC DATA (MEASURED):

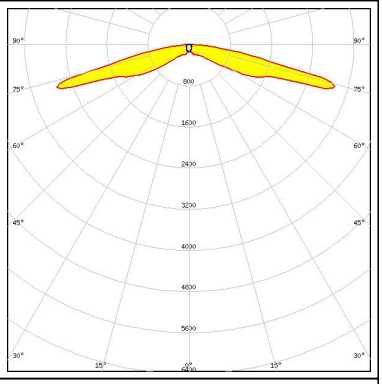
OSRAM
Opto Semiconductors

LED	Oslon Square PC
FWHM	156.0 + 83.0°
Efficiency	93 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



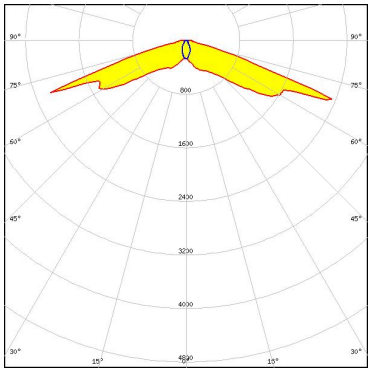
OSRAM
Opto Semiconductors

LED	Oslon SSL 150
FWHM	157.0 + 86.0°
Efficiency	92 %
Peak intensity	2.900 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



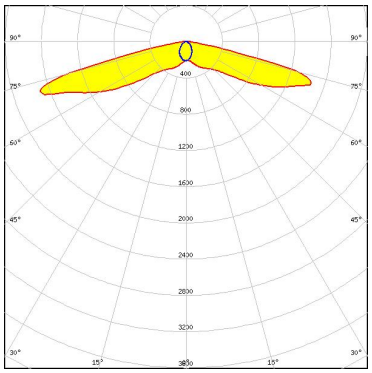
OSRAM
Opto Semiconductors

LED	Oslon SSL 80
FWHM	147.0 + 52.0°
Efficiency	89 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH351Z
FWHM	154.0 + 76.0°
Efficiency	94 %
Peak intensity	1.700 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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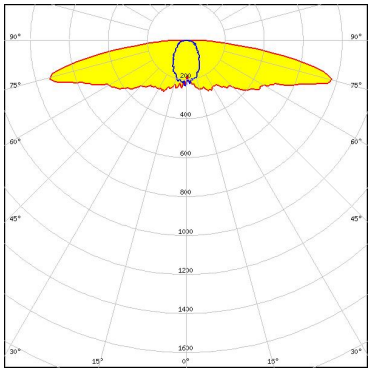
PHOTOMETRIC DATA (SIMULATED):

CREE

LED	XHP35 HD
FWHM	164.0 + 68.0°
Efficiency	91 %
Peak intensity	0.770 cd/lm
LEDs/each optic	1
Light colour	White

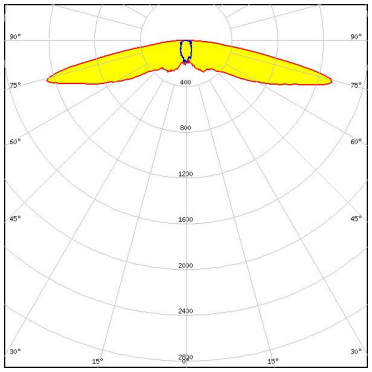
Required components:



CREE

LED	XP-L HI
FWHM	159.0°
Efficiency	89 %
Peak intensity	1.300 cd/lm
LEDs/each optic	1
Light colour	White

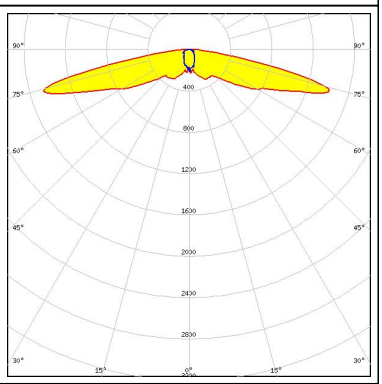
Required components:



OSRAM
Opto Semiconductors

LED	Oslon Square Gen3
FWHM	158.0 + 70.0°
Efficiency	93 %
Peak intensity	1.500 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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Hong Kong, China

Distribution Partners
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where_to_buy

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