HB-2X2-M

~25° medium beam optimized for CREE XP-L and XM-L

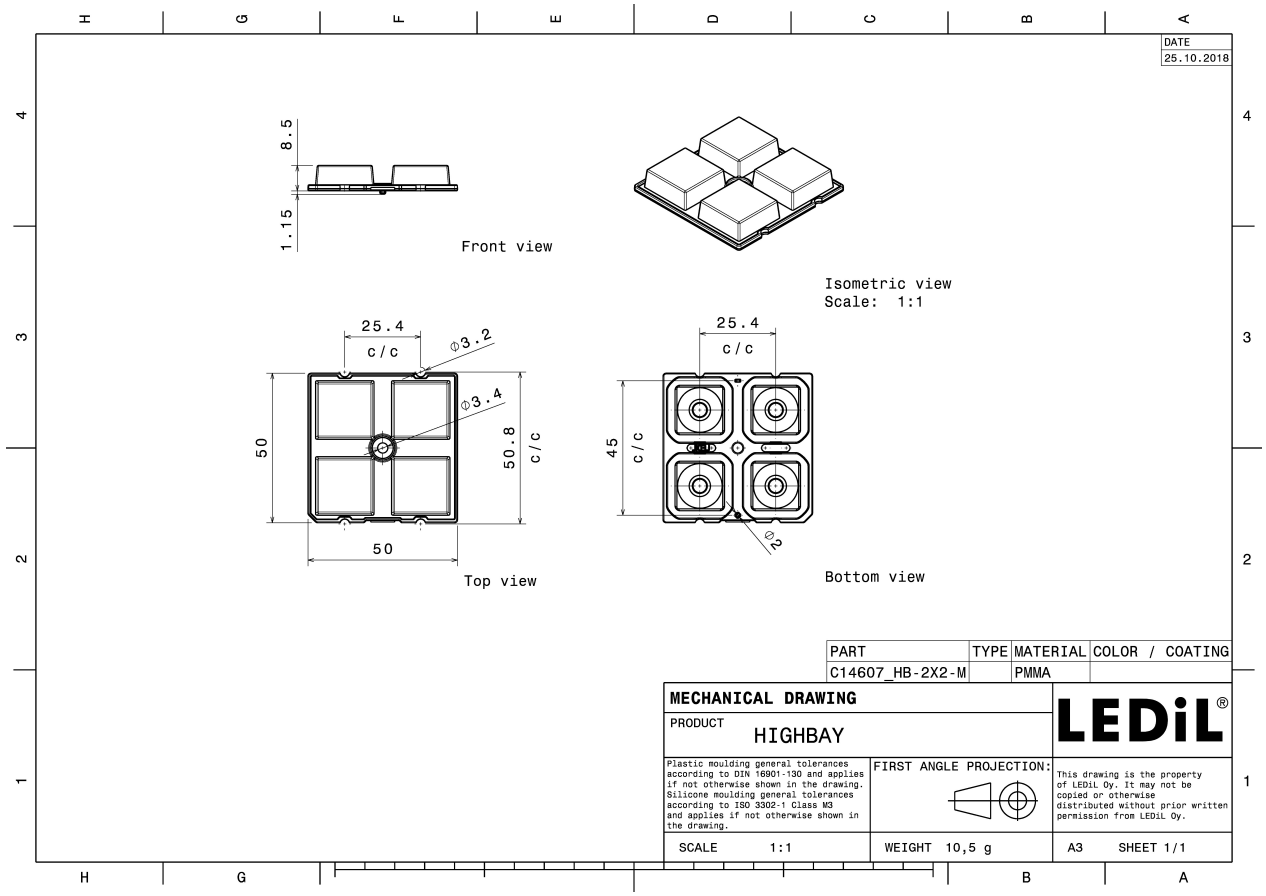
TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	8.5 mm
Fastening	pin, screw
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	9.2 kg
Quantity in Box	800 pcs
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
HB-2X2-M	Multi-lens	PMMA	clear

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

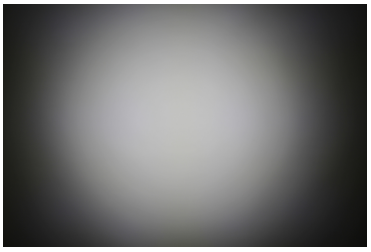


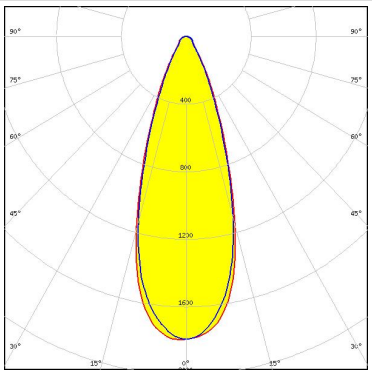
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

bridgelux

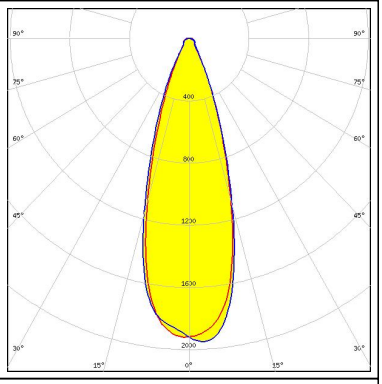
LED	Bridgelux SMD 5050
FWHM	36.0°
Efficiency	94 %
Peak intensity	1.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





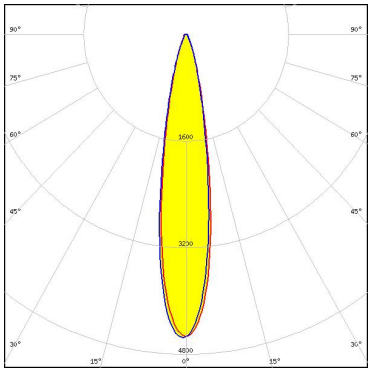
CREE

LED	XD16
FWHM	33.0°
Efficiency	94 %
Peak intensity	2.000 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	



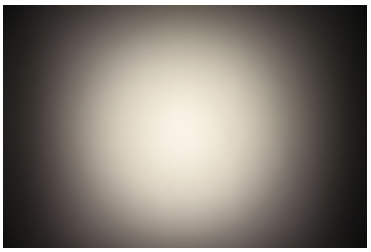
CREE

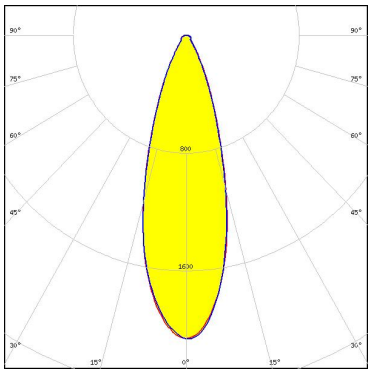
LED	XD16
FWHM	19.0°
Efficiency	90 %
Peak intensity	4.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE

LED	XM-L
FWHM	32.0°
Efficiency	93 %
Peak intensity	2.040 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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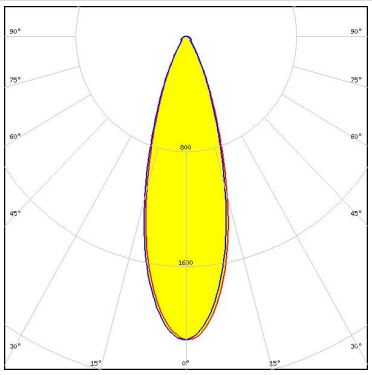
PHOTOMETRIC DATA (MEASURED):

CREE

LED	XM-L2
FWHM	32.0°
Efficiency	92 %
Peak intensity	2.112 cd/lm
LEDs/each optic	1
Light colour	White

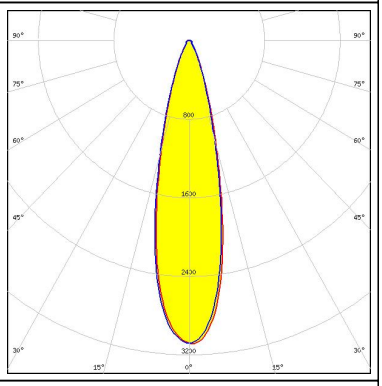
Required components:



CREE

LED	XP-G2
FWHM	25.0°
Efficiency	0 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

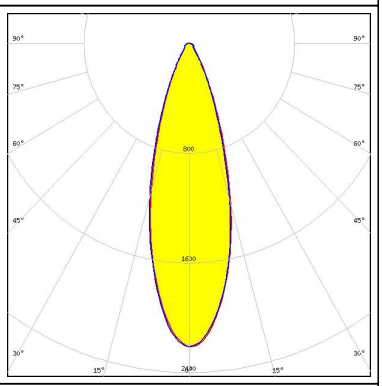
Required components:



CREE

LED	XP-L HD
FWHM	31.0°
Efficiency	94 %
Peak intensity	2.213 cd/lm
LEDs/each optic	1
Light colour	White

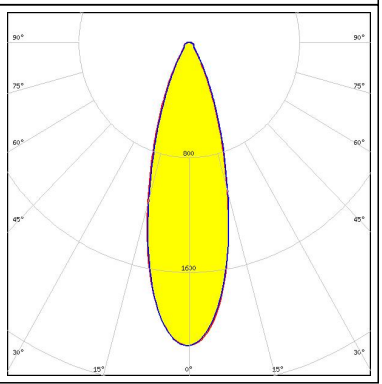
Required components:



CREE

LED	XP-L2
FWHM	31.0°
Efficiency	93 %
Peak intensity	2.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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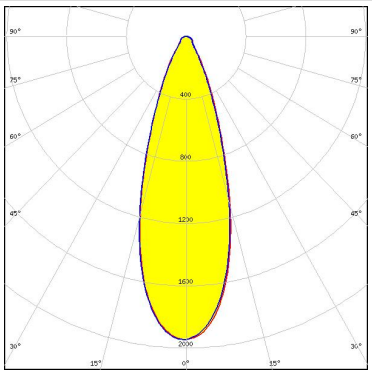
PHOTOMETRIC DATA (MEASURED):

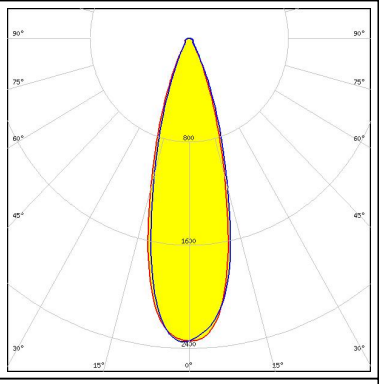
LUMILEDS

LED	LUXEON 5050
FWHM	34.0°
Efficiency	94 %
Peak intensity	1.950 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



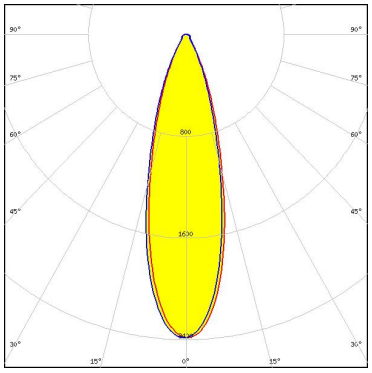
LUMILEDS

LED	LUXEON MZ
FWHM	30.0°
Efficiency	91 %
Peak intensity	2.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



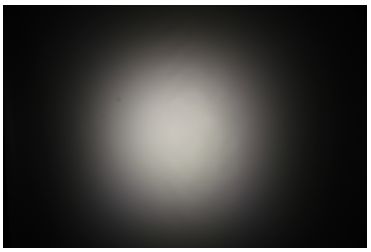
LUMILEDS

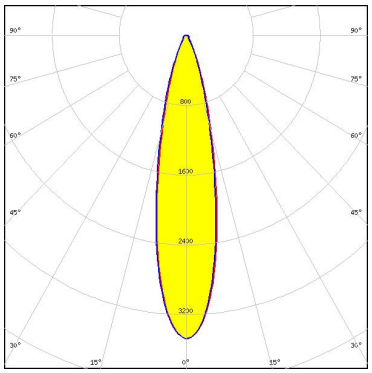
LED	LUXEON V
FWHM	29.0°
Efficiency	94 %
Peak intensity	2.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON V2
FWHM	23.0°
Efficiency	94 %
Peak intensity	3.500 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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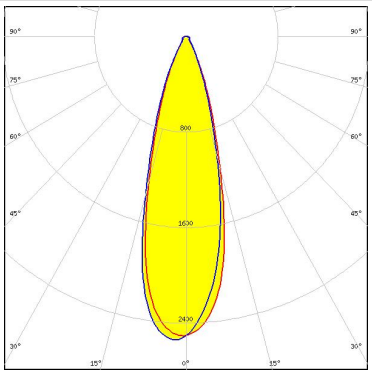
PHOTOMETRIC DATA (MEASURED):

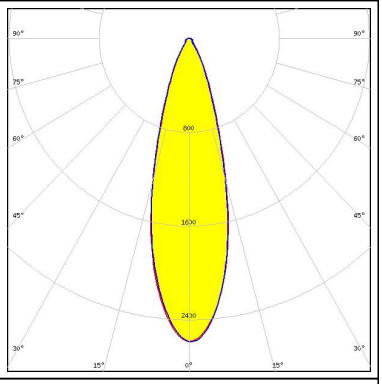
NICHIA

LED	NVSW219D
FWHM	29.0°
Efficiency	94 %
Peak intensity	2.500 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



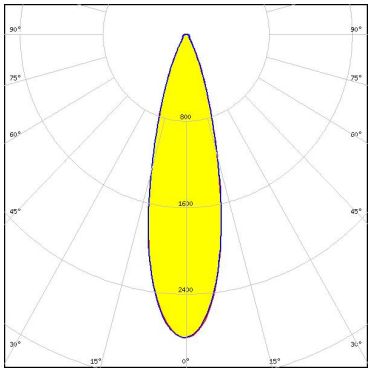
NICHIA

LED	NVSW319B
FWHM	29.0°
Efficiency	94 %
Peak intensity	2.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



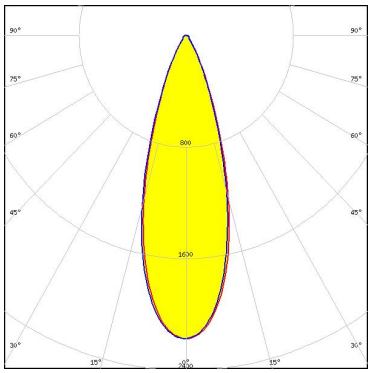
NICHIA

LED	NVSW3x9A
FWHM	28.0°
Efficiency	94 %
Peak intensity	2.800 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NWSx229A
FWHM	33.0°
Efficiency	87 %
Peak intensity	2.200 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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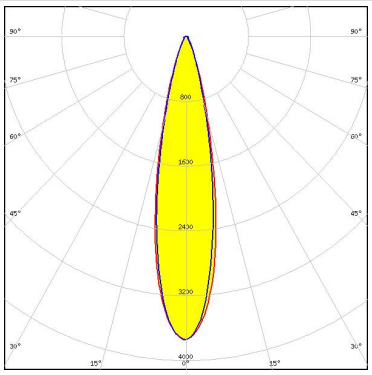
PHOTOMETRIC DATA (MEASURED):

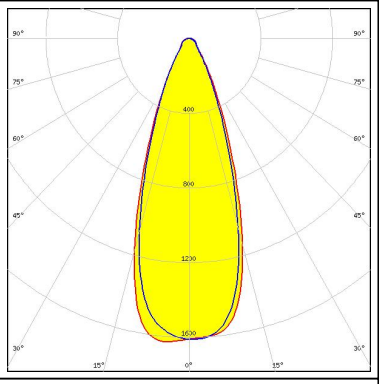
OSRAM

LED	PrevaLED Brick HP 2x8
FWHM	23.0°
Efficiency	91 %
Peak intensity	3.750 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



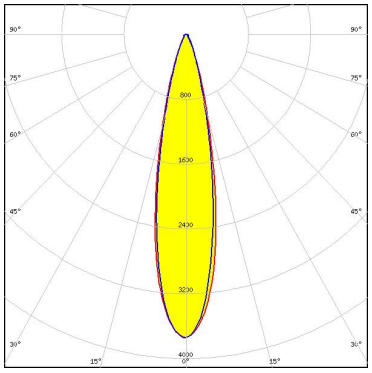
OSRAM
Opto Semiconductors

LED	Duris S8
FWHM	38.0°
Efficiency	94 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



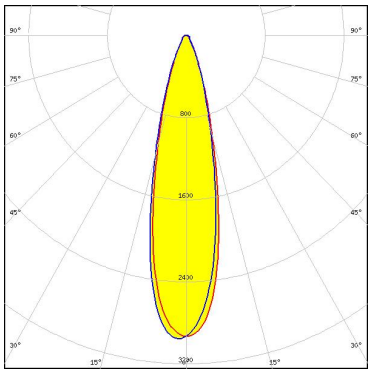
OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM	23.0°
Efficiency	91 %
Peak intensity	3.750 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHILIPS

LED	Fortimo FastFlex LED 2x8 DA G4
FWHM	25.0°
Efficiency	92 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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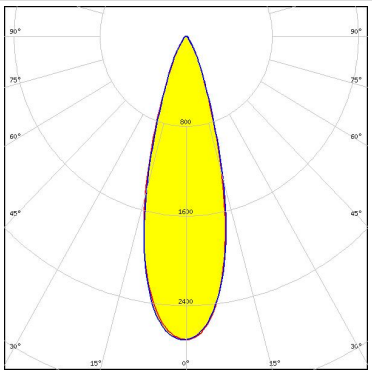
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	HiLOM RH16 (LH351C)
FWHM	30.0°
Efficiency	94 %
Peak intensity	2.700 cd/lm
LEDs/each optic	1
Light colour	White

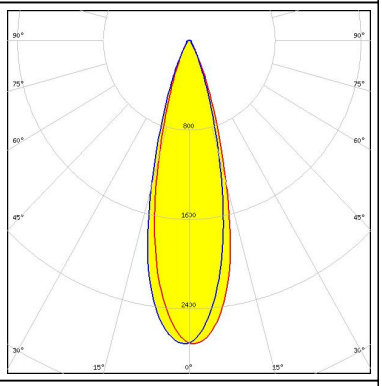
Required components:



SAMSUNG

LED	LH351B
FWHM	28.0°
Efficiency	85 %
Peak intensity	2.720 cd/lm
LEDs/each optic	1
Light colour	White

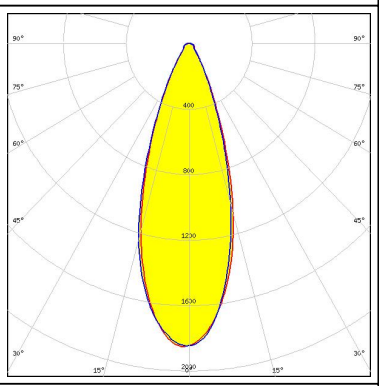
Required components:



SAMSUNG

LED	LH351D
FWHM	35.0°
Efficiency	91 %
Peak intensity	1.900 cd/lm
LEDs/each optic	1
Light colour	White

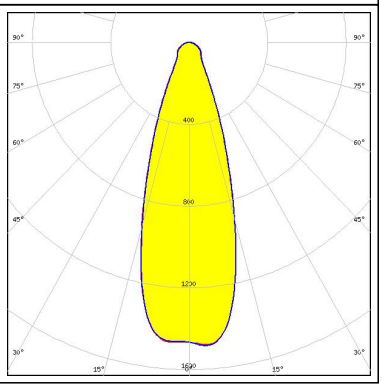
Required components:



SEOUL SEMICONDUCTOR

LED	2x2 Y22 module - SMJQ-D48W16AA-XX
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.500 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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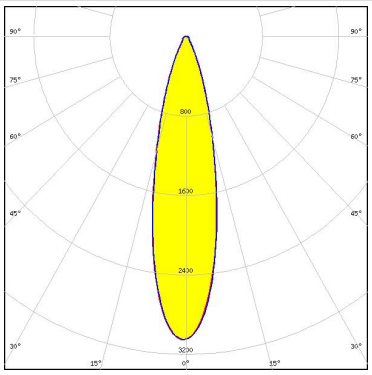
PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM	25.0°
Efficiency	94 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

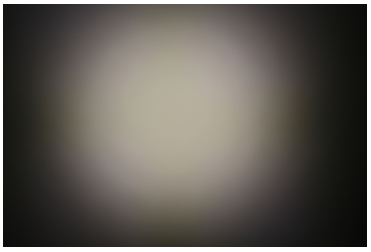
Required components:

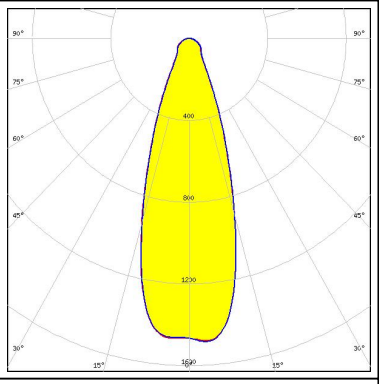


SEOUL SEMICONDUCTOR

LED	Z8Y19
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.500 cd/lm
LEDs/each optic	4
Light colour	White

Required components:

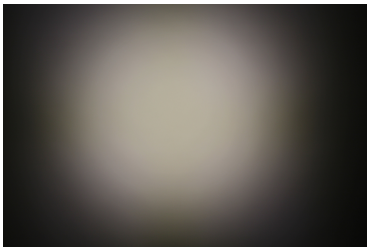


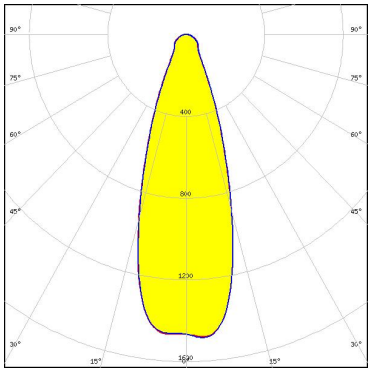


SEOUL SEMICONDUCTOR

LED	Z8Y19
FWHM	34.0°
Efficiency	93 %
Peak intensity	1.500 cd/lm
LEDs/each optic	4
Light colour	White

Required components:

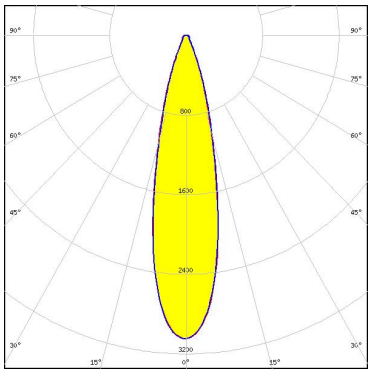




SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM	25.0°
Efficiency	92 %
Peak intensity	3.100 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



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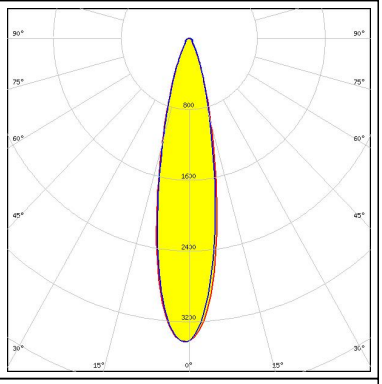
PHOTOMETRIC DATA (MEASURED):

TRIDONIC

LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM	23.0°
Efficiency	94 %
Peak intensity	3.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

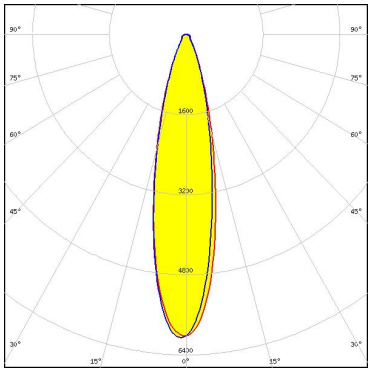
TRIDONIC

LED	RLE 2x8 4000lm HP EXC2 OTD
FWHM	23.0°
Efficiency	94 %
Peak intensity	3.400 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



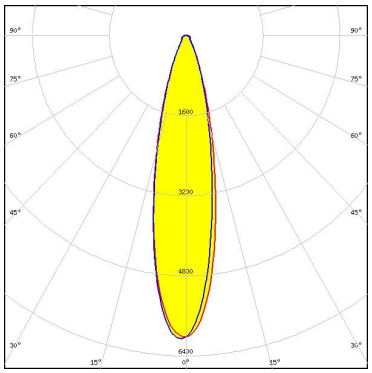
TRIDONIC

LED	RLE G1 49x121mm 2000lm xxx EXC OTD
FWHM	24.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



TRIDONIC

LED	RLE G1 49x133mm 2000lm xxx EXC OTD
FWHM	24.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

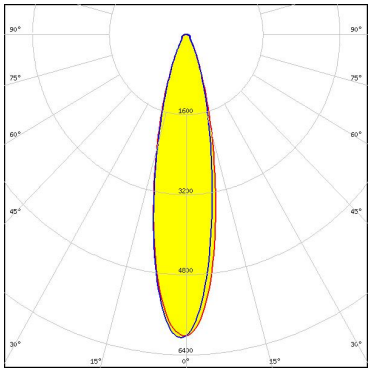


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (MEASURED):

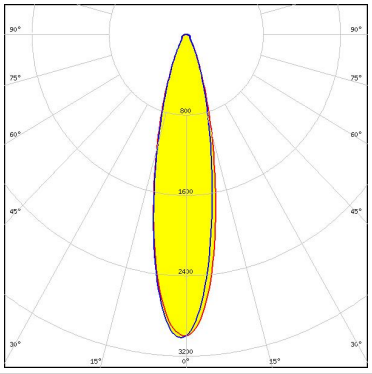
TRIDONIC

LED	RLE G1 49x223mm 4000lm xxx EXC OTD
FWHM	24.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



TRIDONIC

LED	RLE G1 49x245mm 4000lm xxx EXC OTD
FWHM	24.0°
Efficiency	94 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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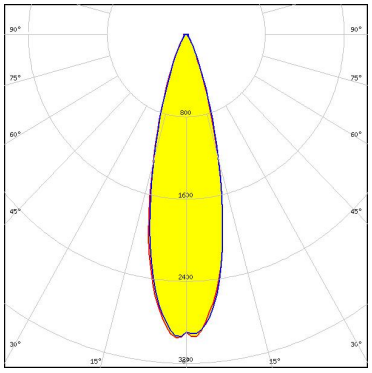
PHOTOMETRIC DATA (SIMULATED):

CREE

LED	XP-G3
FWHM	28.0°
Efficiency	92 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White

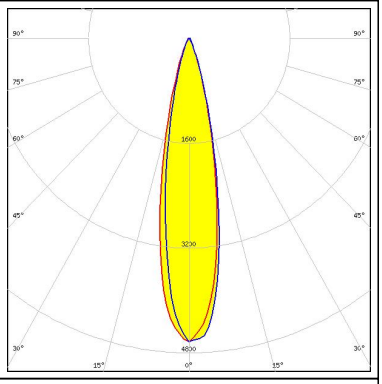
Required components:



LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM	21.0°
Efficiency	91 %
Peak intensity	4.700 cd/lm
LEDs/each optic	1
Light colour	White

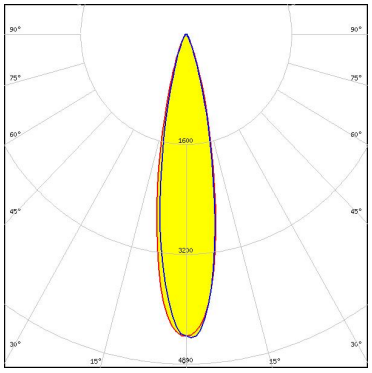
Required components:



LUMILEDS

LED	LUXEON 3535 2D
FWHM	22.0°
Efficiency	92 %
Peak intensity	4.500 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

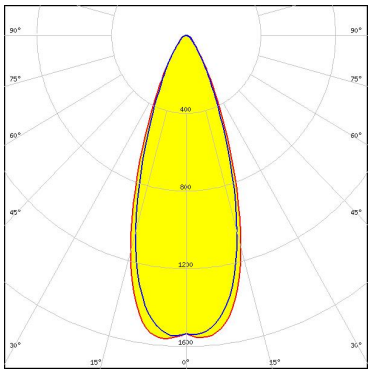


OSRAM
Opto Semiconductors

LED	Duris S8
FWHM	38.0°
Efficiency	89 %
Peak intensity	1.600 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Undefined Manufacturer: Protective Plate, Glass



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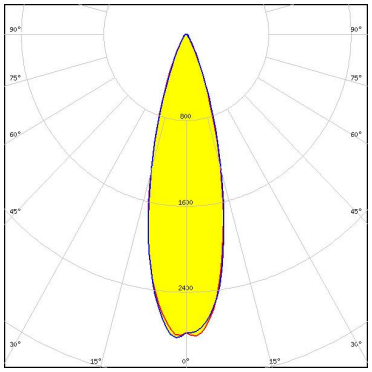
PHOTOMETRIC DATA (SIMULATED):

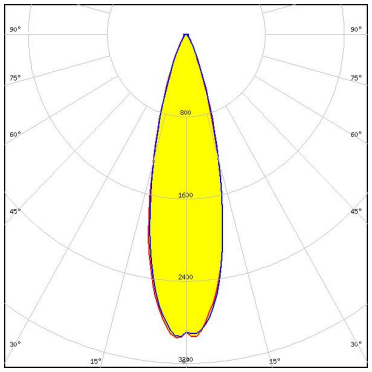
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM	29.0°
Efficiency	93 %
Peak intensity	2.840 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



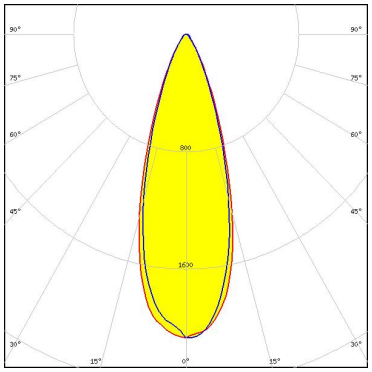
PHILIPS

LED	Fortimo FastFlex LED 2x8 DAX G4
FWHM	28.0°
Efficiency	92 %
Peak intensity	3.000 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	SEOUL DC 5050 6V
FWHM	34.0°
Efficiency	94 %
Peak intensity	2.100 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:

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