IRIS

~5° real spot beam optimized for CREE XM-L. Assembly with holder and installation tape.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 38.0 mm
Height	27.7 mm
Fastening	tape, pin, screw
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
IRIS	Single lens	PMMA	clear	
IRIS-XM-HLD	Holder	PC	black	
SPUTNIK-TAPE	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCA12104_IRIS » Box size: 480 x 280 x 300 mm	Single lens	378	126	42	9.0

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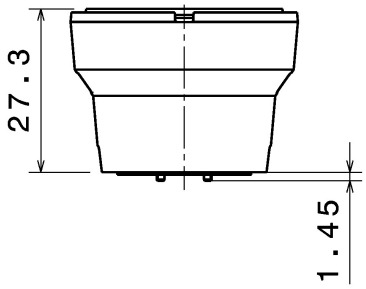
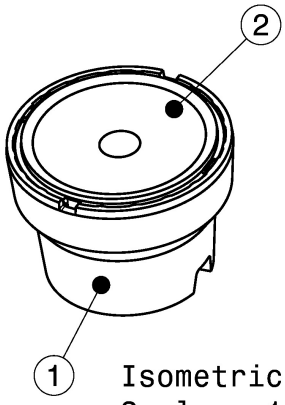
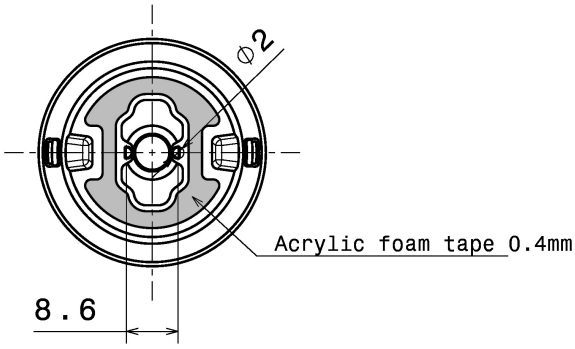


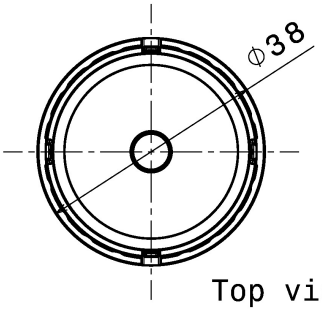
Front view



Isometric view
Scale: 1:1



Bottom view



Top view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C12034	IRIS-XM-HLD	PC	black
2	F12075	IRIS	PMMA	clear

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Joensuunkatu 13
FIN 24100 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
FCA12104_IRIS

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SIZE: A4
PART NUMBER: FCA12104

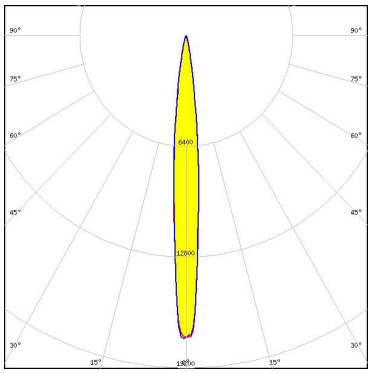
SCALE 1:1 | WEIGHT 19,5 g | SHEET 1/1

See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

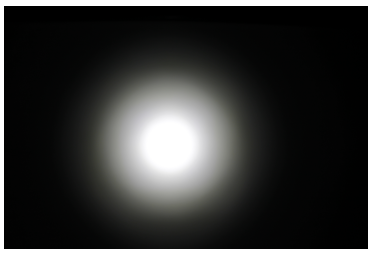
CREE LED

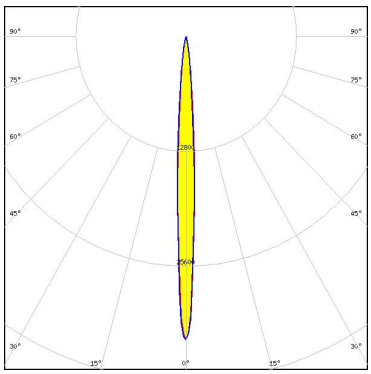
LED	XHP35 HD
FWHM / FWTM	10.0° / 22.0°
Efficiency	91 %
Peak intensity	17.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

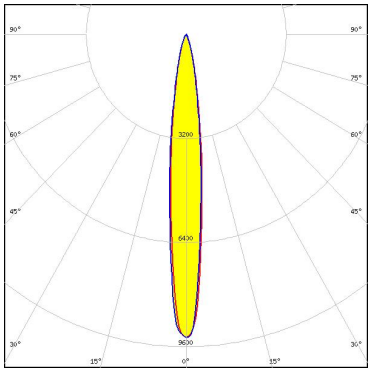
LED	XHP35 HI
FWHM / FWTM	7.0° / 16.0°
Efficiency	93 %
Peak intensity	33.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





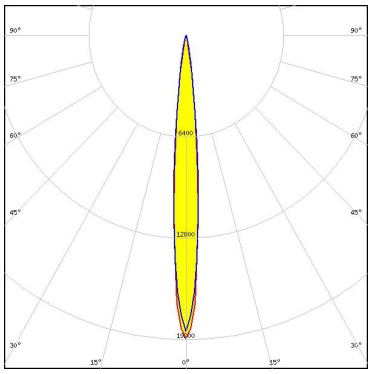
CREE LED

LED	XHP50.2
FWHM / FWTM	12.0° / 30.0°
Efficiency	88 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XM-L
FWHM / FWTM	9.0° / 19.0°
Efficiency	91 %
Peak intensity	19.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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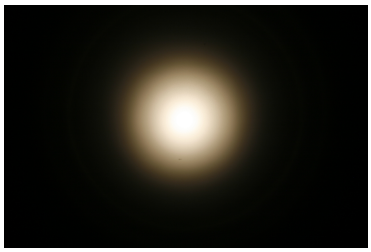
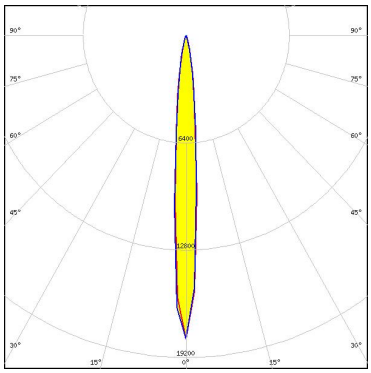
PHOTOMETRIC DATA (MEASURED):

CREE LED

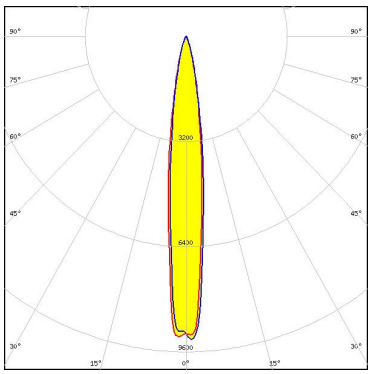
LED	XM-L2
FWHM / FWTM	10.0° / 23.0°
Efficiency	86 %
Peak intensity	18.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





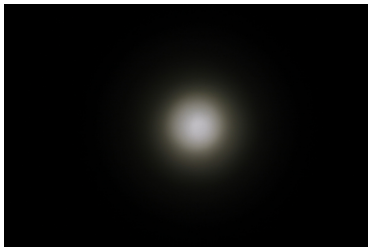
NICHIA

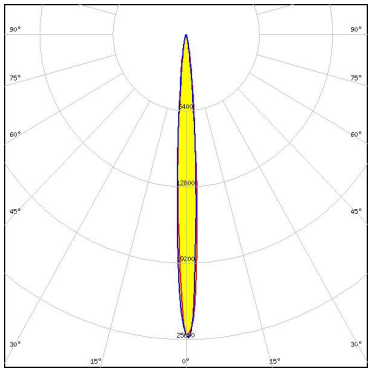
LED	NV4x144A
FWHM / FWTM	13.0° / 31.0°
Efficiency	89 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

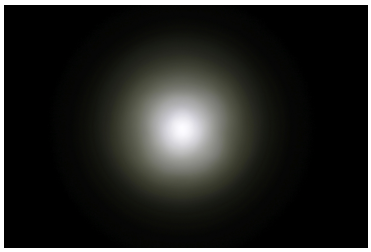
LED	NVSW3x9A
FWHM / FWTM	7.0° / 17.0°
Efficiency	85 %
Peak intensity	25.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

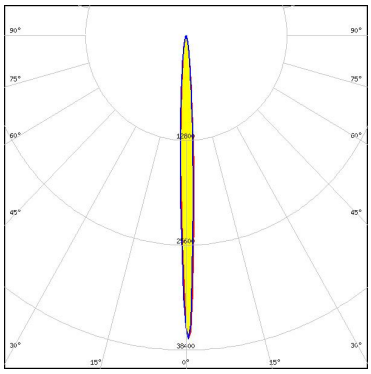




OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	5.0° / 14.0°
Efficiency	91 %
Peak intensity	38.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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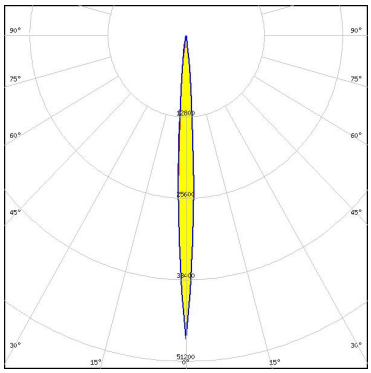
PHOTOMETRIC DATA (SIMULATED):

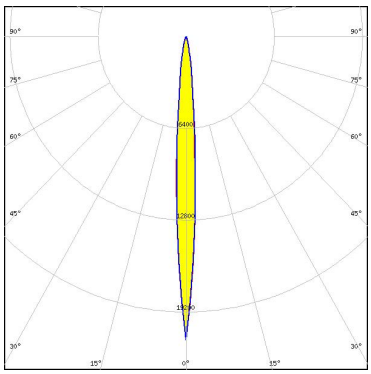
CREE LED

LED	XD16
FWHM / FWTM	6.0° / 14.0°
Efficiency	91 %
Peak intensity	47.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



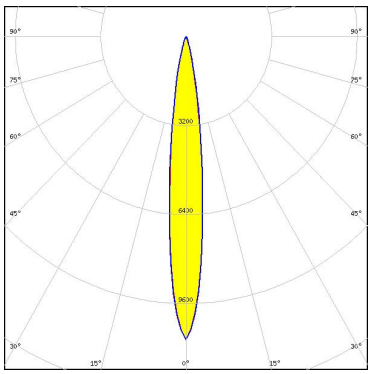
CREE LED

LED	XHP35.2 HD
FWHM / FWTM	8.0° / 20.0°
Efficiency	85 %
Peak intensity	21.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



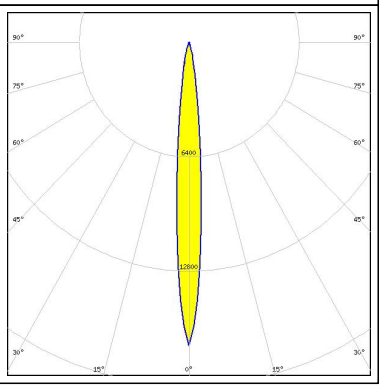
CREE LED

LED	XHP50.3 HD
FWHM / FWTM	13.0° / 28.0°
Efficiency	89 %
Peak intensity	10.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XHP50.3 HI
FWHM / FWTM	10.0° / 22.0°
Efficiency	96 %
Peak intensity	17 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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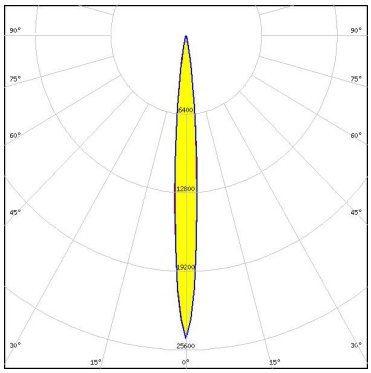
PHOTOMETRIC DATA (SIMULATED):

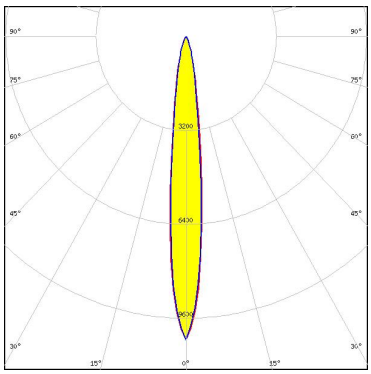
CREE LED

LED	XP-L HD
FWHM / FWTM	8.8° / 19.0°
Efficiency	93 %
Peak intensity	24.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	12.0° / 30.0°
Efficiency	92 %
Peak intensity	10.3 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.

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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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