

IRIS

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

SPECIFICATION:

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

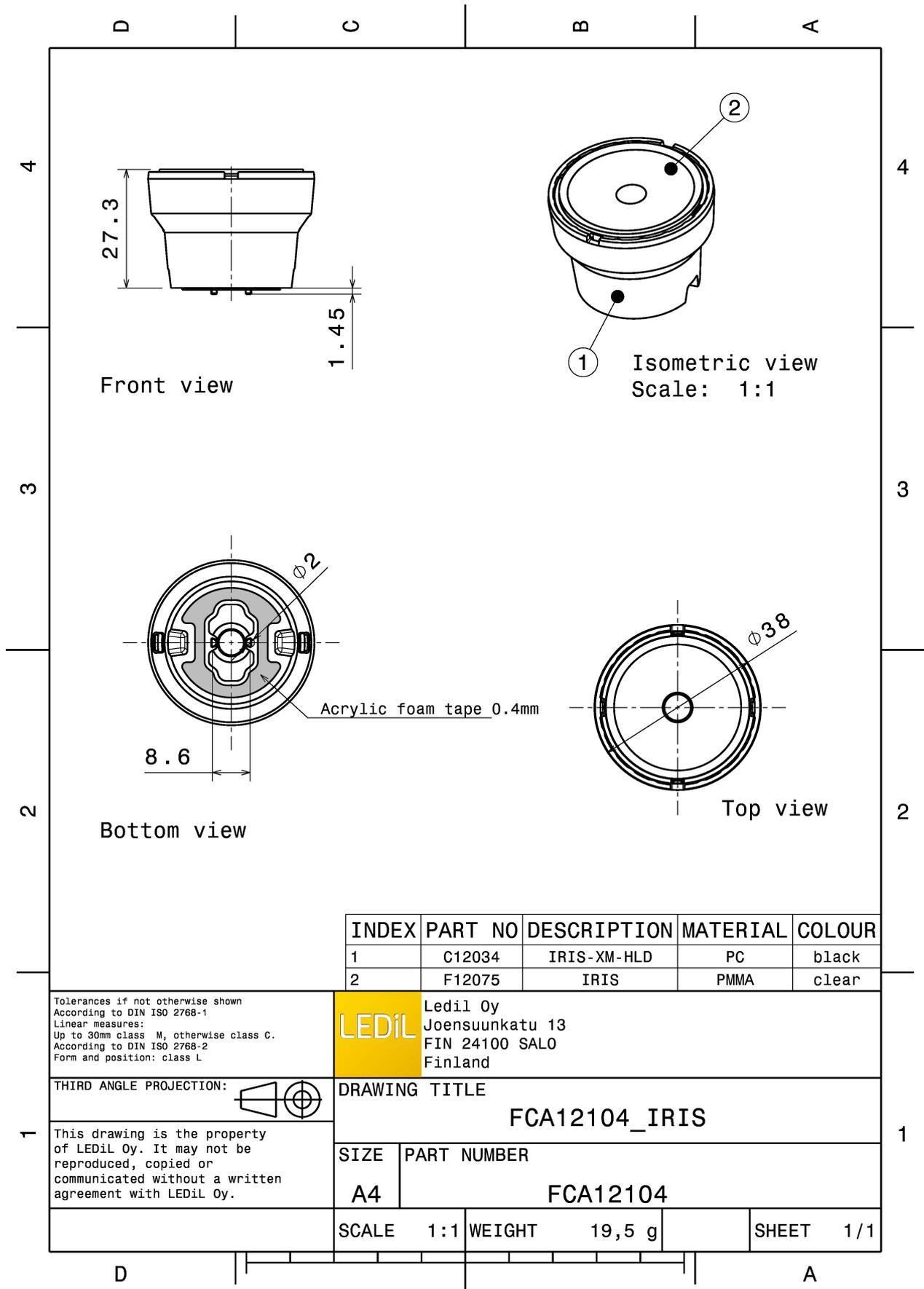
MATERIALS:

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	Single lens	378	126	42	9.0
» Box size: 480 x 280 x 300 mm					



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 Ledil Oy
Joensuunkatu 13
FIN 24100 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
FCA12104_IRIS

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SIZE	PART NUMBER
A4	FCA12104

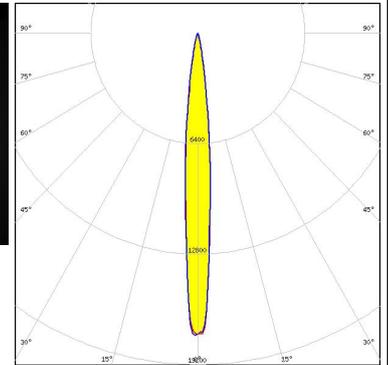
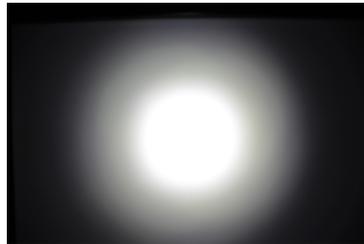
SCALE	1:1	WEIGHT	19,5 g	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

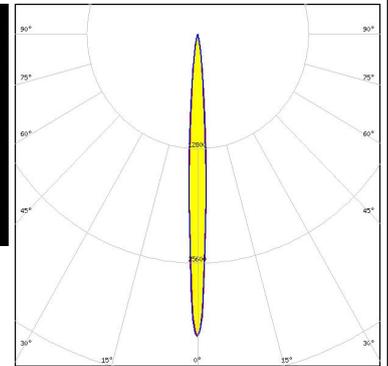
CREE → LED

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:



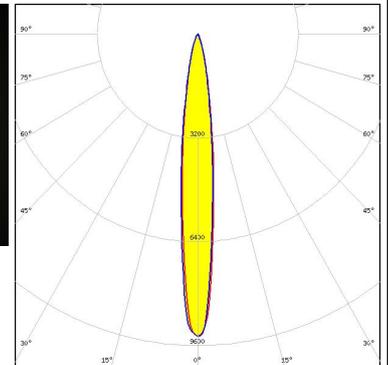
CREE → LED

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:



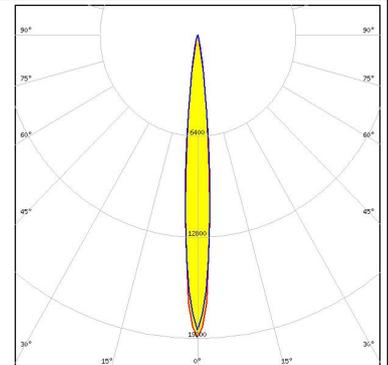
CREE → LED

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:

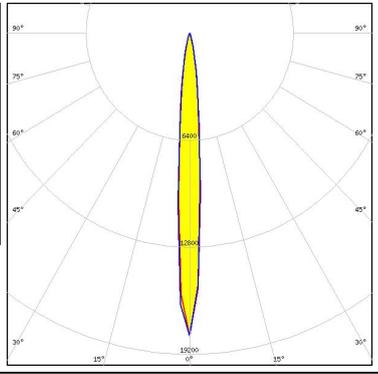
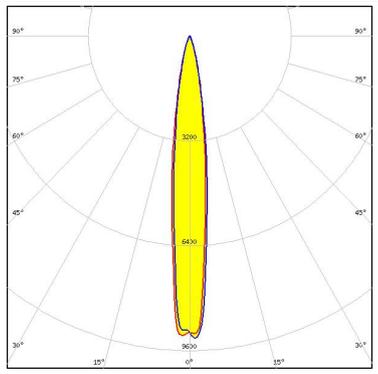
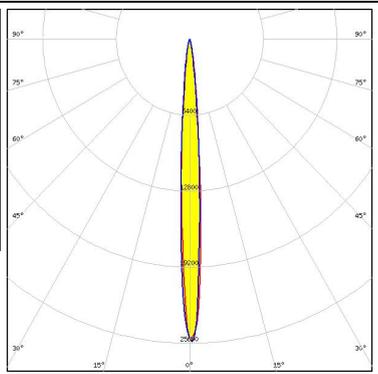
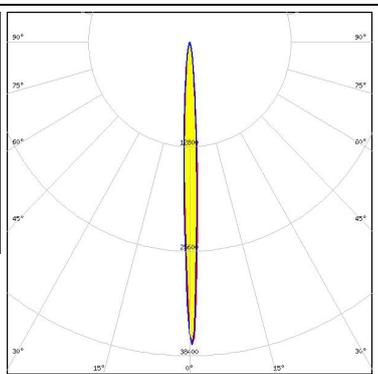


CREE → LED

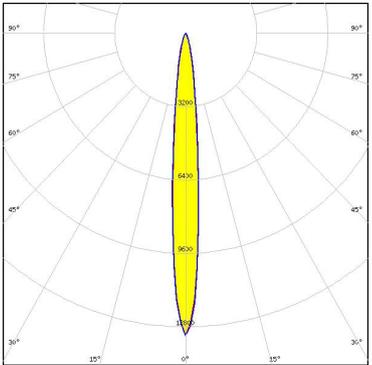
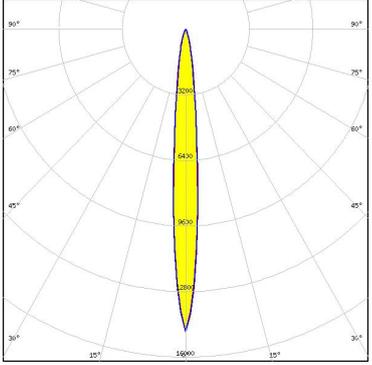
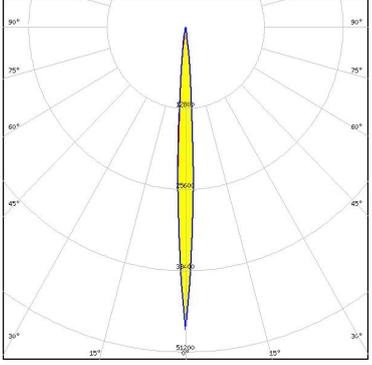
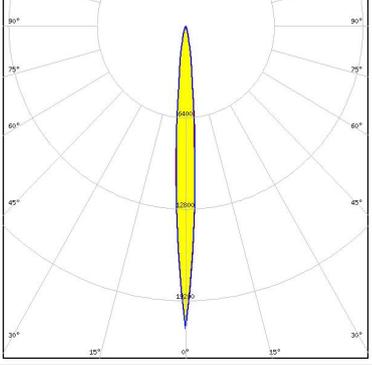
LED XM-L
 FWHM / FWTM 9.0° / 19.0°
 Efficiency 91 %
 Peak intensity 19.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>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:</p>		
<p>NICHIA</p> <p>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:</p>		
<p>NICHIA</p> <p>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:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>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:</p>		

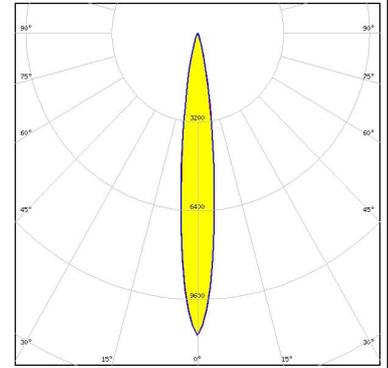
OPTICAL RESULTS (SIMULATED):

	<p>LED J Series 5050B 6V K Class FWHM / FWTM 10.0° / 26.0° Efficiency 92 % Peak intensity 13.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED J Series 5050C 6V E Class FWHM / FWTM 10.0° / 25.0° Efficiency 92 % Peak intensity 14.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>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:</p>	
	<p>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:</p>	

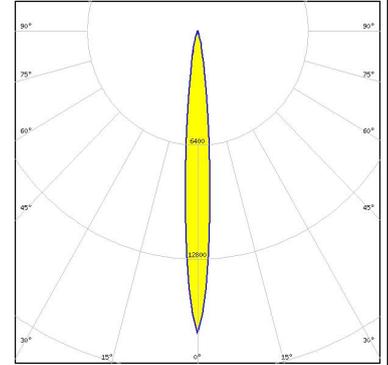
OPTICAL RESULTS (SIMULATED):



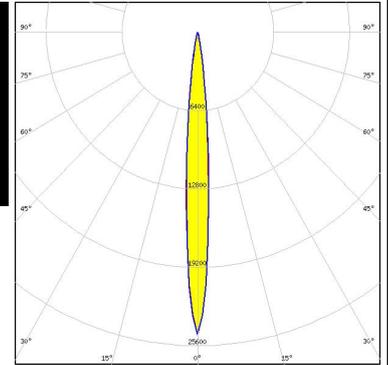
LED XHP50.3 HD
 FWHM / FWTM 13.0° / 28.0°
 Efficiency 89 %
 Peak intensity 10.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



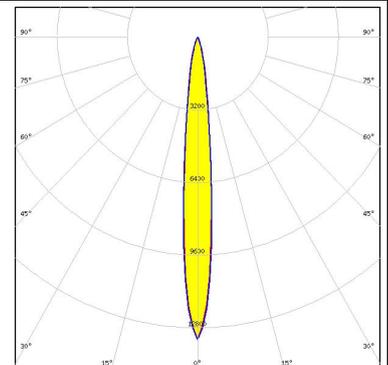
LED XHP50.3 HI
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 96 %
 Peak intensity 17 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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:



LED LUXEON 5050 Round LES
 FWHM / FWTM 10.0° / 27.0°
 Efficiency 92 %
 Peak intensity 13.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>LUMINUS</p> <p>LED SFT-40-WCS FWHM / FWTM 6.0° / 14.0° Efficiency 94 % Peak intensity 46.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMINUS</p> <p>LED SFT-70X-WCS FWHM / FWTM 8.0° / 18.0° Efficiency 94 % Peak intensity 29.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>LUMINUS</p> <p>LED SST-70X-WCS FWHM / FWTM 10.0° / 24.0° Efficiency 92 % Peak intensity 15.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>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:</p>	

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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