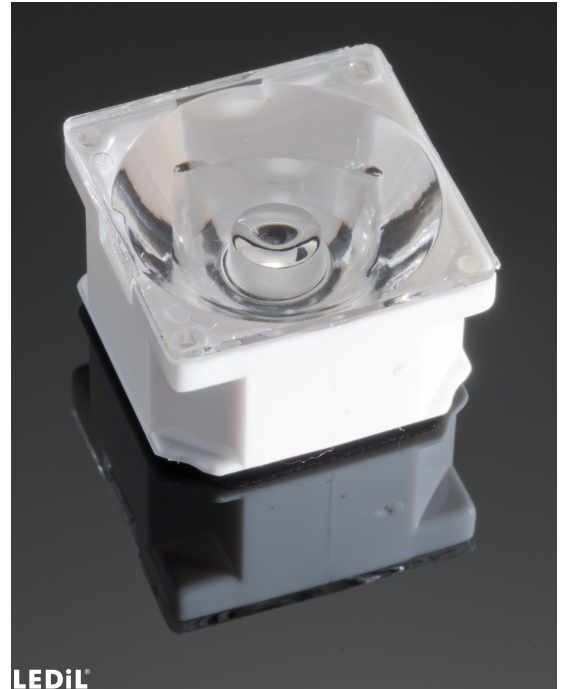


LAURA-RS-PIN

~8° spot beam optimized for CREE XP-E.
Assembly with white holder, installation tape and location pins.

SPECIFICATION:

Dimensions	21.6 x 21.6 mm
Height	13.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ



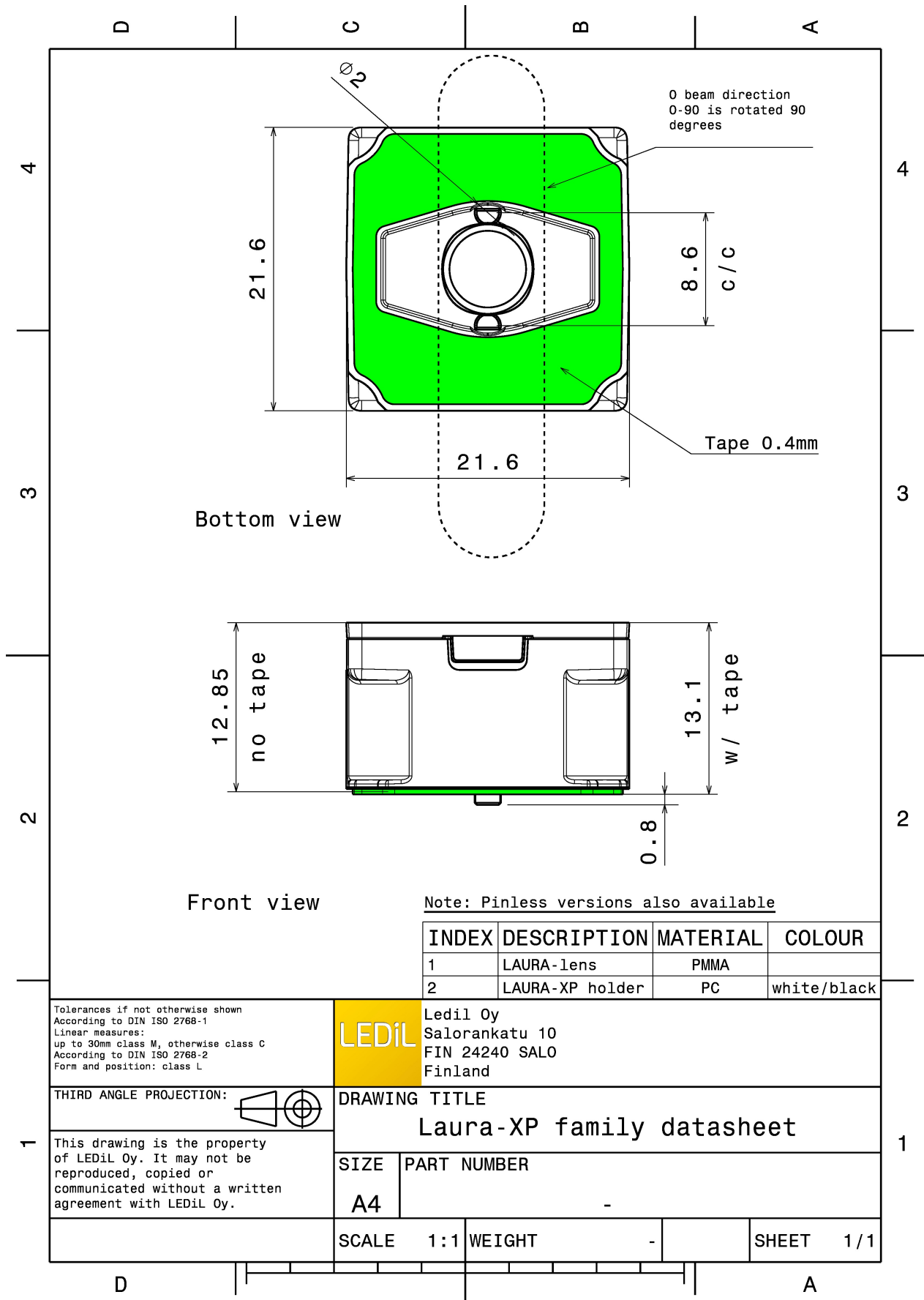
LEDiL

MATERIALS:

Component	Type	Material	Colour	Finish
LAURA-RS	Single lens	PMMA	clear	
LAURA-PIN-XP-HLD-WHT	Holder	PC	white	
ROSE-TAPE	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA11959_LAURA-RS-PIN	Single lens	1440	360	180	7.6
» Box size:					



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

OPTICAL RESULTS (MEASURED):

CREE LED

LED XP-E
FWHM / FWTM 8.0° / 16.0°
Efficiency 93 %
Peak intensity 33.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:

CREE LED

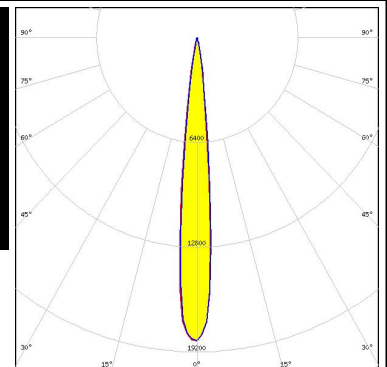
LED XP-G
FWHM / FWTM 11.0°
Efficiency 93 %
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS


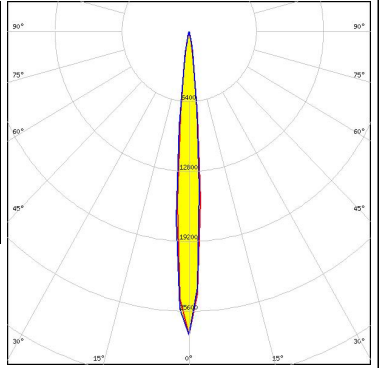

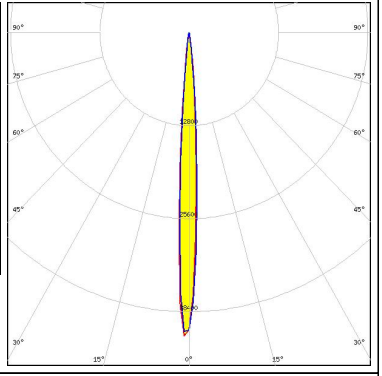
LED LUXEON Rebel
FWHM / FWTM 7.0° / 16.0°
Efficiency 93 %
Peak intensity 34 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON T
FWHM / FWTM 11.0° / 21.0°
Efficiency 92 %
Peak intensity 18.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:




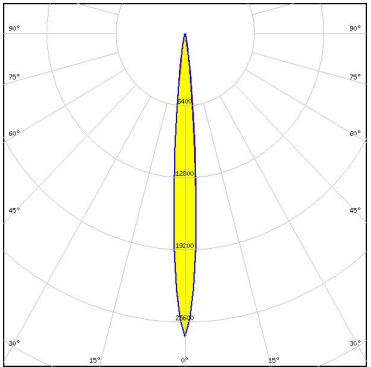

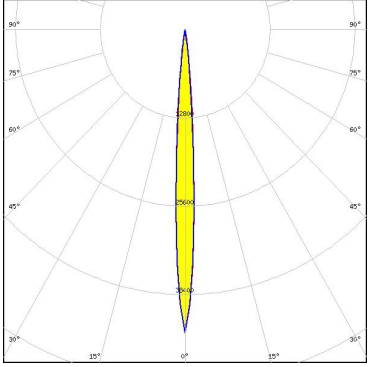

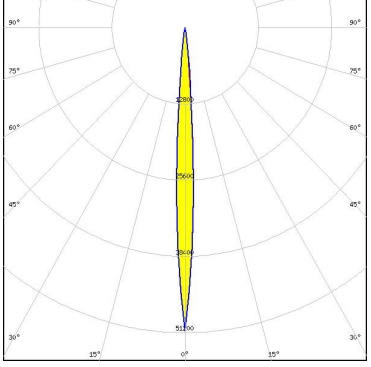

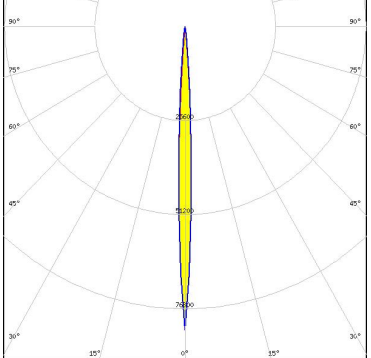
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NCSxx19B</p> <p>FWHM / FWTM 10.0° / 19.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 27.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square EC</p> <p>FWHM / FWTM 9.0° / 18.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 20 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM SSL 150</p> <p>FWHM / FWTM 7.0° / 14.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 42 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4725S</p> <p>FWHM / FWTM 10.0° / 21.0°</p> <p>Efficiency %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

OPTICAL RESULTS (MEASURED):

	
SEOUL SEMICONDUCTOR	
LED	Z5
FWHM / FWTM	7.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

	<p>LED: XD16 FWHM / FWTM: 8.6° / 18.0° Efficiency: 94 % Peak intensity: 26.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-E2 FWHM / FWTM: 8.0° / 14.0° Efficiency: 95 % Peak intensity: 44 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-P FWHM / FWTM: 6.0° / 14.0° Efficiency: 96 % Peak intensity: 50.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XQ-E HI FWHM / FWTM: 6.0° / 10.0° Efficiency: 93 % Peak intensity: 82.6 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED LUXEON H50-2
FWHM / FWTM 12.0° / 23.0°
Efficiency 92 %
Peak intensity 16.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON IR Domed 150 (L110-0xxx150000000)
FWHM / FWTM 9.0° / 18.0°
Efficiency 0 %
LEDs/each optic 1
Light colour White
Required components:

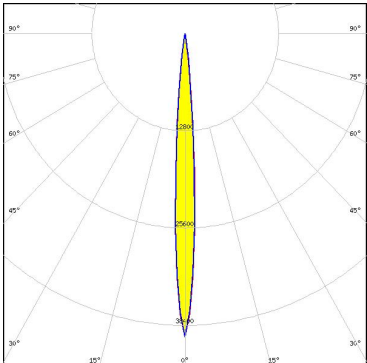
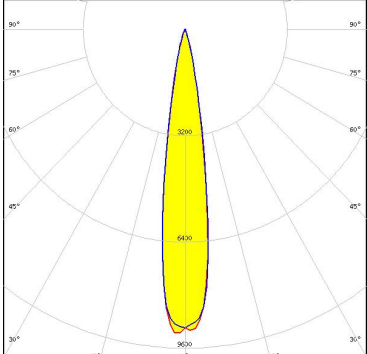
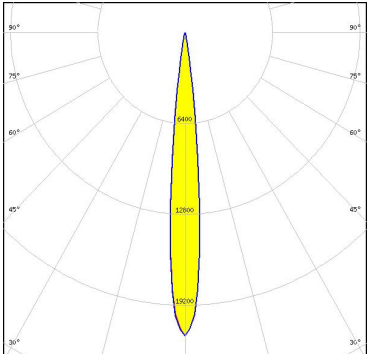
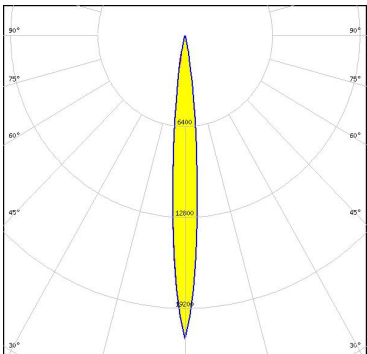
LUMILEDS

LED LUXEON IR Domed 60 (L110-0xxx060000000)
FWHM / FWTM 9.2° / 20.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

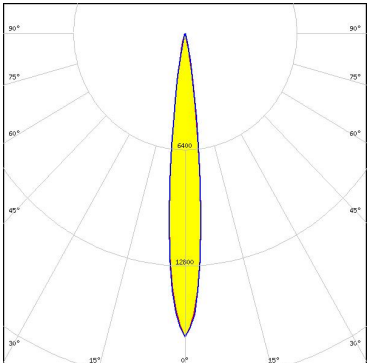
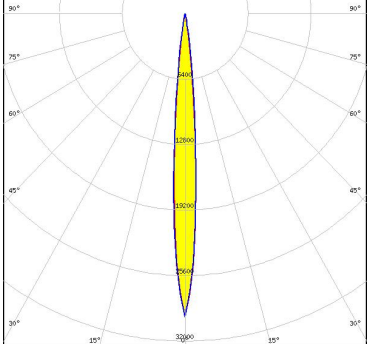
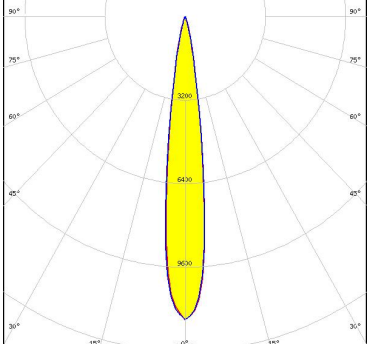
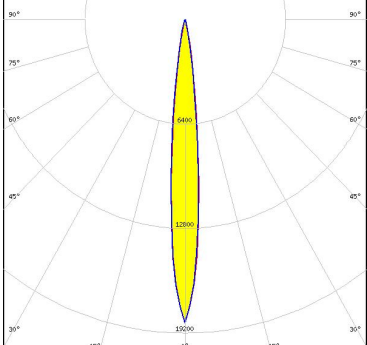
LUMILEDS

LED LUXEON IR Domed 90 (L110-0xxx090000000)
FWHM / FWTM 9.0° / 18.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON Z ES</p> <p>FWHM / FWTM: 8.0° / 15.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 39.9 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NV4WB35AM</p> <p>FWHM / FWTM: 16.0° / 30.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 9.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NVSW719AC</p> <p>FWHM / FWTM: 10.0° / 20.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 21.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxE21A</p> <p>FWHM / FWTM: 10.0° / 21.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 21.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM: 12.0° / 22.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 16.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ C 2424</p> <p>FWHM / FWTM: 8.0° / 18.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 29.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM: 14.0° / 27.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 11.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSCONIQ P 3737 Flat</p> <p>FWHM / FWTM: 10.0° / 22.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 18.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	LED OSLON Boost HX (KW CULPM1.TG)	
FWHM / FWTM 8.0° / 16.0°		
Efficiency 96 %		
Peak intensity 37.6 cd/lm		
LEDs/each optic 1		
Light colour White		
Required components:		
OSRAM <small>Opto Semiconductors</small>	LED OSLON Signal	
FWHM / FWTM 8.0° / 16.0°		
Efficiency 95 %		
Peak intensity 40.5 cd/lm		
LEDs/each optic 1		
Light colour Red		
Required components:		
OSRAM <small>Opto Semiconductors</small>	LED OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM 9.5° / 19.0°		
Efficiency 94 %		
Peak intensity 24.8 cd/lm		
LEDs/each optic 1		
Light colour White		
Required components:		
OSRAM <small>Opto Semiconductors</small>	LED SFH 4715AS	
FWHM / FWTM 10.0° / 19.0°		
Efficiency 94 %		
Peak intensity 23.8 cd/lm		
LEDs/each optic 1		
Light colour White		
Required components:		

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

LED SFH 4715S
FWHM / FWTM 9.5°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED SFH 4770S
FWHM / FWTM 10.0° / 23.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

SAMSUNG

LED LM301B
FWHM / FWTM 9.0° / 19.0°
Efficiency 94 %
Peak intensity 24.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:

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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

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