SATU-O

~40° + 20° oval beam optimized for CREE XT-E

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.8 mm
Height	8.9 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
SATU-O	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13297_SATU-O	2880	120	120	7.7

» Box size: 480 x 280 x 300 mm

Injection gate

∅1.9
∅16
∅21.75
∅10.68
30°
30°

8.86
1.83
2
1.45

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13297	SATU-O	PMMA	

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
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

This drawing is the property
of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy."

DRAWING TITLE

C13297_SATU-O

SIZE	PART NUMBER		
A4	C13297		

| SCALE | 2:1 | WEIGHT | 2 g | | SHEET | 1/1 |

PHOTOMETRIC DATA (MEASURED):

CREE

LED	XB-D
FWHM	42.0 + 22.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
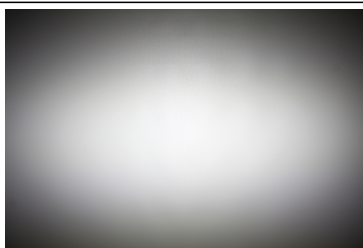
CREE

LED	XP-E
FWHM	41.0 + 17.0°
Efficiency	83 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
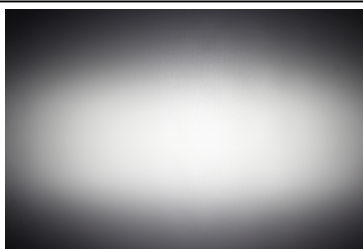
CREE

LED	XP-E2
FWHM	40.0 + 17.0°
Efficiency	85 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
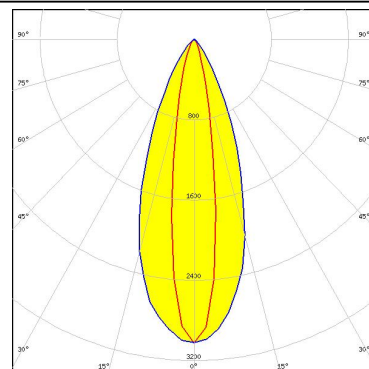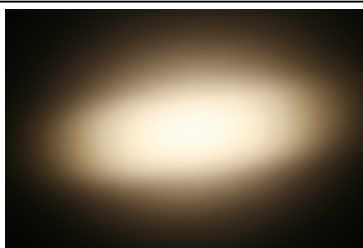
CREE

LED	XP-G
FWHM	39.0 + 23.0°
Efficiency	79 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

CREE
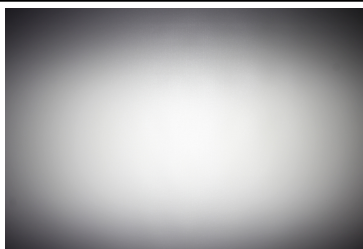
LED	XP-G2
FWHM	39.0 + 24.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LG Innotek
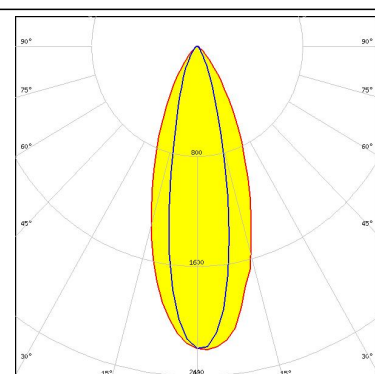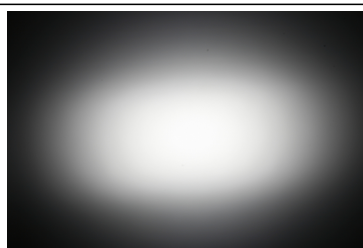
LED	H35B0 (LEMWA32)
FWHM	39.0 + 24.0°
Efficiency	84 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LG Innotek
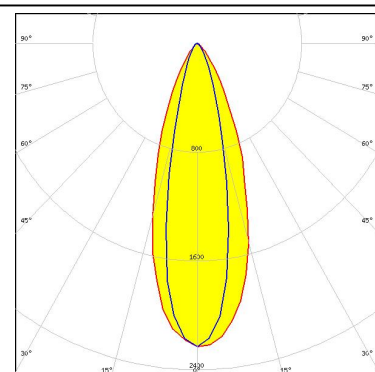
LED	H35C0 (LEMWA33)
FWHM	39.0 + 25.0°
Efficiency	82 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
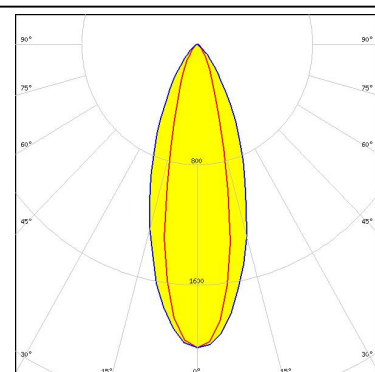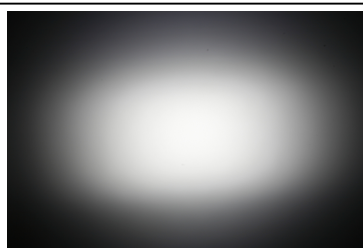
LED	LUXEON T
FWHM	40.0 + 24.0°
Efficiency	84 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
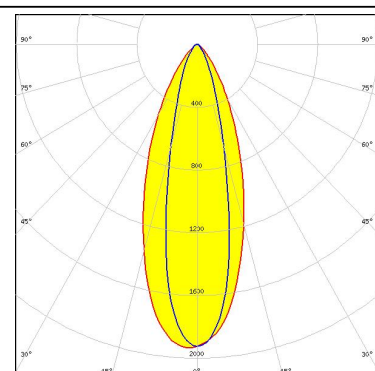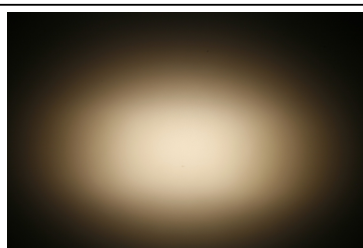
PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON TX
FWHM	40.0 + 25.0°
Efficiency	79 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA
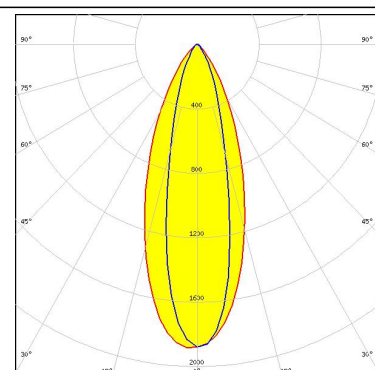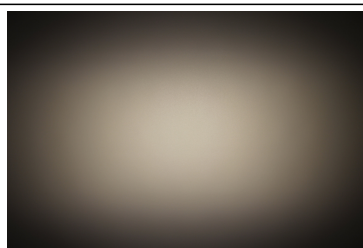
LED	NF2x757A
FWHM	43.0 + 26.0°
Efficiency	81 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors
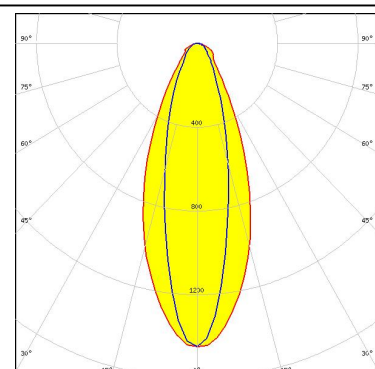
LED	OSLON Square EC
FWHM	41.0 + 23.0°
Efficiency	82 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM Opto Semiconductors
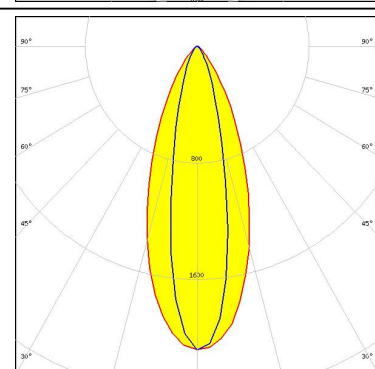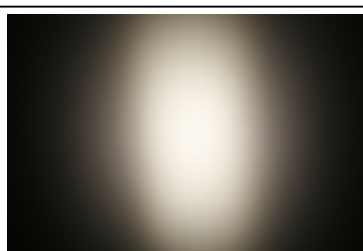
LED	OSLON SSL 80
FWHM	41.0 + 18.0°
Efficiency	79 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
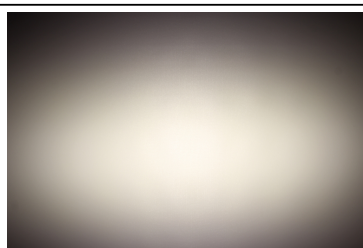
PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LH351Z
FWHM	40.0 + 23.0°
Efficiency	84 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (SIMULATED):

CREE
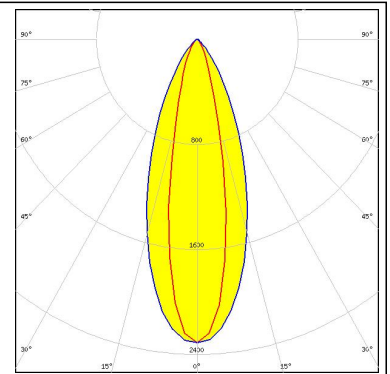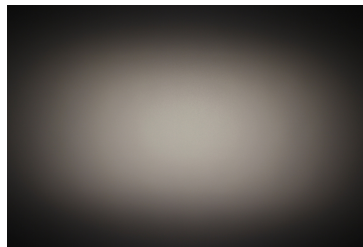
LED	XT-E
FWHM	20.0 + 40.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS
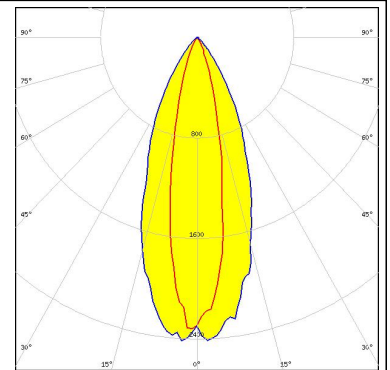
LED	LUXEON H50-2
FWHM	22.0 + 42.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

NICHIA
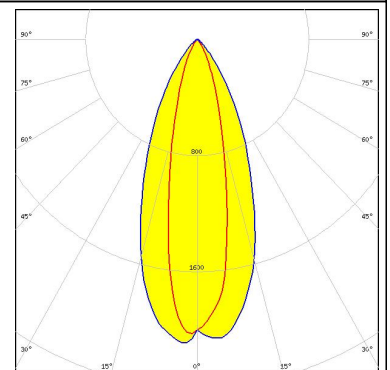
LED	NVSxx19B/NVSxx19C
FWHM	43.0 + 24.0°
Efficiency	82 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OSRAM
Opto Semiconductors
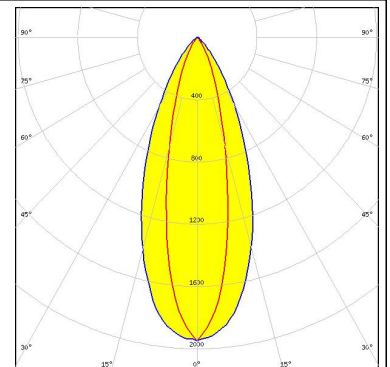
LED	Synios P2720 1/2 mm
FWHM	25.0 + 12.0°
Efficiency	91 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
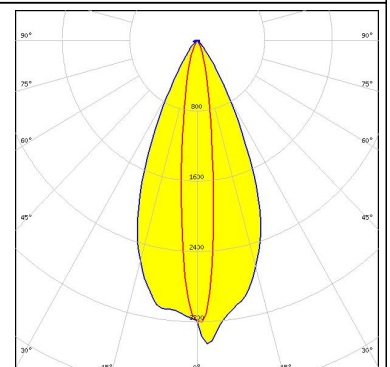
PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR	
LED	Z8Y22P
FWHM	43.0 + 26.0°
Efficiency	80 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
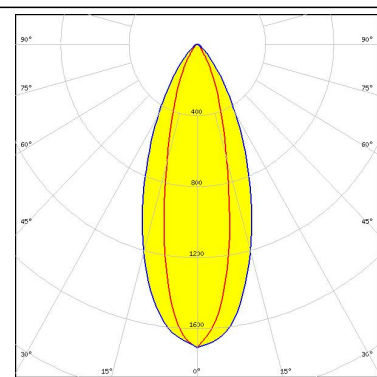
GENERAL INFORMATION:

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:

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy
Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.
228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support
www.ledil.com/
where_to_buy

Shipping locations
Salo, Finland
Hong Kong, China

Distribution Partners
www.ledil.com/
where_to_buy

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Ledil](#):
  [C13297_SATU-O](#)