

## TINA-Y-O

~45° + 15° oval beam. Assembly with holder, installation tape and pins.

### SPECIFICATION:

Dimensions	Ã~ 16.1 mm
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

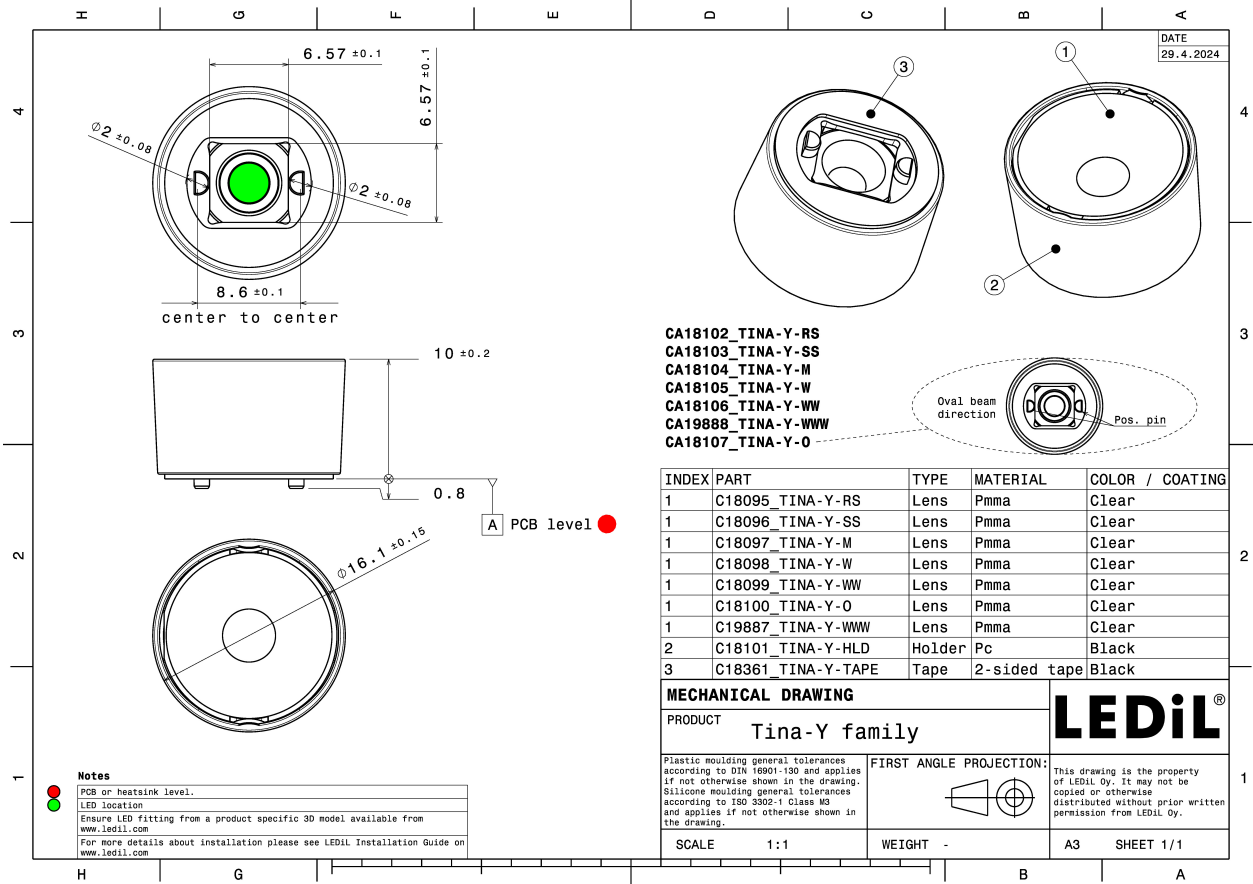


### MATERIALS:

Component	Type	Material	Colour	Finish	Length
TINA-Y-O	Single lens	PMMA	clear	gloss	14.7
TINA-Y-HLD	Holder	PC	black	gloss	16.1
TINA-Y-TAPE	Tape	Acrylic foam			

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18107_TINA-Y-O » Box size: 476 x 273 x 197 mm	3900	300	300	6.5

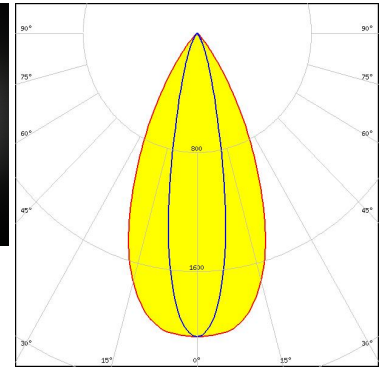
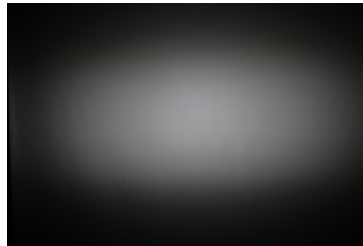


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



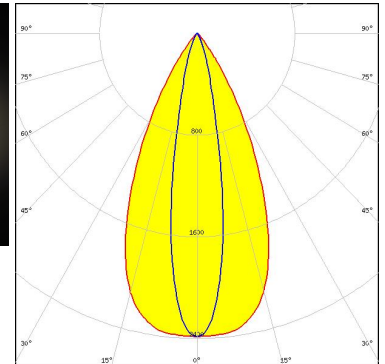
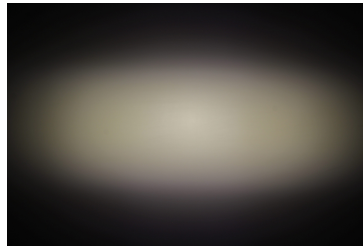
**LED** XP-G3  
**FWHM / FWTM** 49.0 + 22.0° / 76.0 + 44.0°  
**Efficiency** 74 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



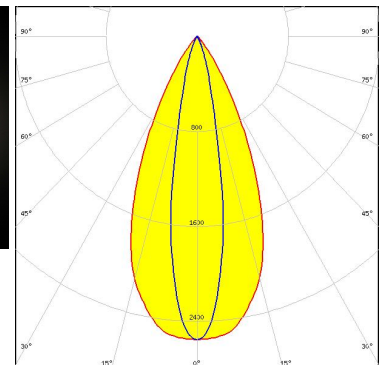
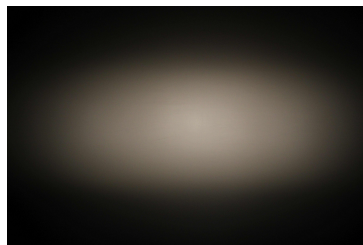
**LED** XP-G4  
**FWHM / FWTM** 50.0 + 20.0° / 75.0 + 40.0°  
**Efficiency** 79 %  
**Peak intensity** 2.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSW719AC  
**FWHM / FWTM** 47.0 + 20.0° / 73.0 + 38.0°  
**Efficiency** 79 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

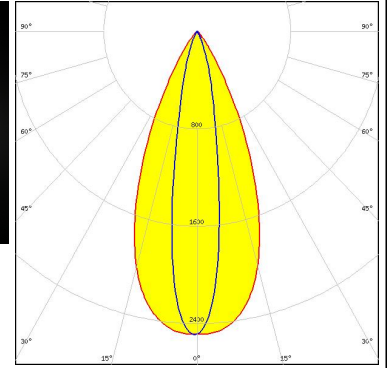


Light distribution files

### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

LED OSCONIQ C 3030  
FWHM / FWTM 46.0 + 18.0° / 70.0 + 40.0°  
Efficiency 74 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



### OPTICAL RESULTS (SIMULATED):



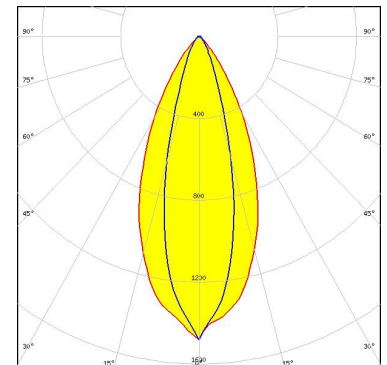
**LED** J Series 3030C  
**FWHM / FWTM** 50.0 + 18.0° / 72.0 + 36.0°  
**Efficiency** 78 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



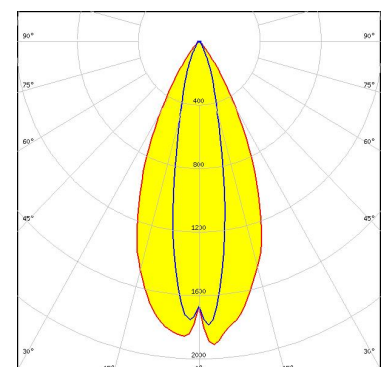
Light distribution files



**LED** XHP35.2 HD  
**FWHM / FWTM** 46.0 + 27.0° / 80.0 + 54.0°  
**Efficiency** 69 %  
**Peak intensity** 1.5 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



**LED** XHP35.2 HI  
**FWHM / FWTM** 46.0 + 22.0° / 73.0 + 47.0°  
**Efficiency** 69 %  
**Peak intensity** 1.9 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

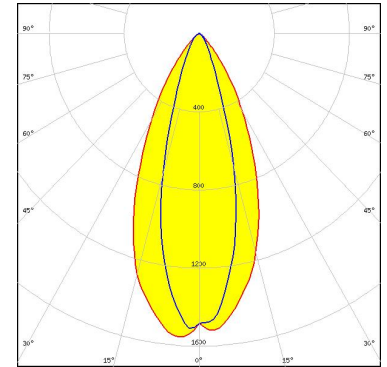


Light distribution files

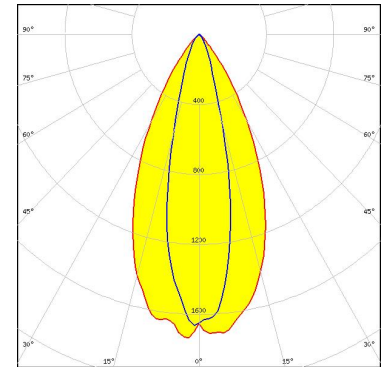
### OPTICAL RESULTS (SIMULATED):



LED XM-L RGBW (XMLDCL HD)  
FWHM / FWTM 47.0 + 30.0° / 81.0 + 56.0°  
Efficiency 77 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour/type RGBW  
Required components:



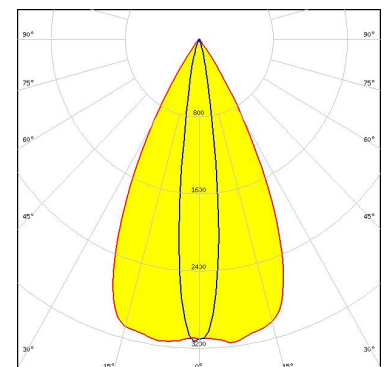
LED XM-L3  
FWHM / FWTM 24.0 + 50.0°  
Efficiency 73 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XP-E2  
FWHM / FWTM 15.0 + 52.0° / 29.0 + 70.0°  
Efficiency 81 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

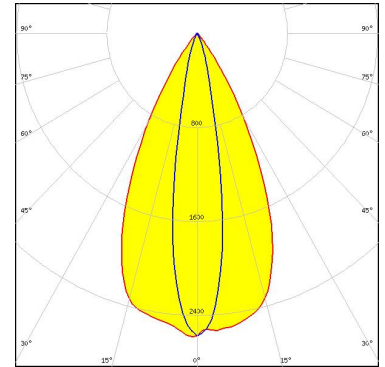


Light distribution files

### OPTICAL RESULTS (SIMULATED):



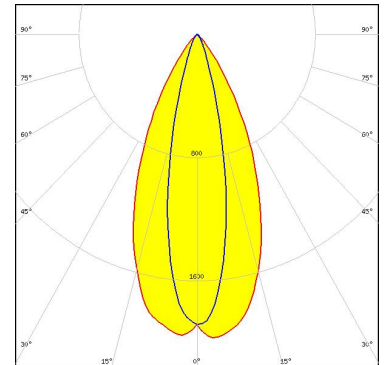
LED XP-G2  
FWHM / FWTM 19.0 + 51.0°  
Efficiency 80 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



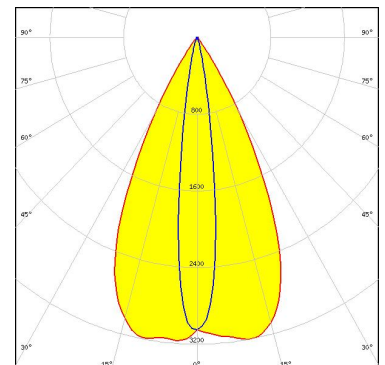
LED XP-L HD  
FWHM / FWTM 48.0 + 24.0° / 76.0 + 44.0°  
Efficiency 77 %  
Peak intensity 2 cd/m²  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED XQ-E HI  
FWHM / FWTM 52.0 + 14.0° / 70.0 + 26.0°  
Efficiency 80 %  
Peak intensity 3.2 cd/m²  
LEDs/each optic 1  
Light colour/type White  
Required components:

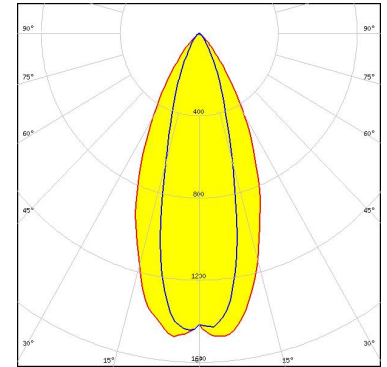


Light distribution files

### OPTICAL RESULTS (SIMULATED):



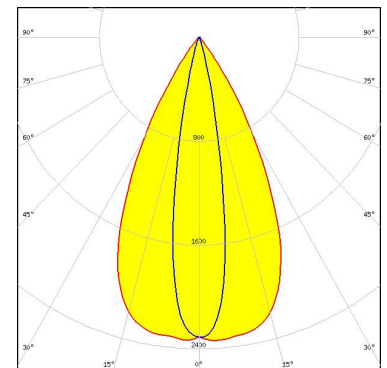
LED LUXEON 5050 Round LES  
FWHM / FWTM 27.0 + 47.0°  
Efficiency 74 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



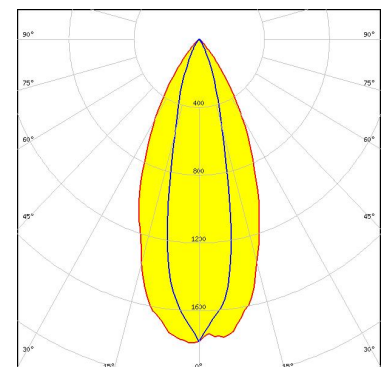
Light distribution files



LED LUXEON C  
FWHM / FWTM 54.0 + 18.0° / 74.0 + 32.0°  
Efficiency 75 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



LED LUXEON MZ  
FWHM / FWTM 23.0 + 46.0°  
Efficiency 73 %  
LEDs/each optic 1  
Light colour/type White  
Required components:

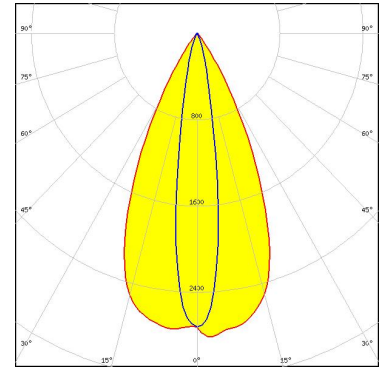


Light distribution files

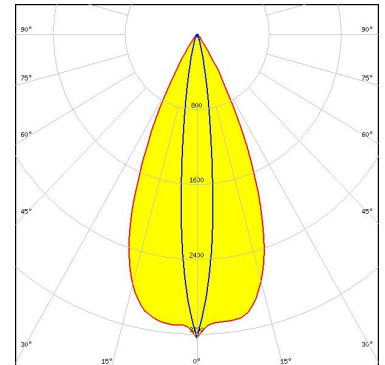
### OPTICAL RESULTS (SIMULATED):



LED SST-20  
 FWHM / FWTM 50.0 + 16.0° / 70.0 + 34.0°  
 Efficiency 78 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



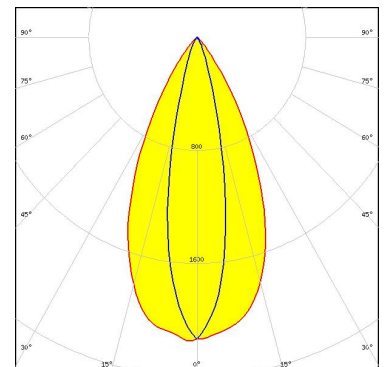
LED NCSxE17A  
 FWHM / FWTM 46.0 + 12.0° / 66.0 + 28.0°  
 Efficiency 73 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSW219F  
 FWHM / FWTM 50.0 + 22.0° / 76.0 + 42.0°  
 Efficiency 79 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### OPTICAL RESULTS (SIMULATED):

**NICHIA**

LED: NVSxE21A

FWHM / FWTM: 44.0 + 20.0° / 70.0 + 38.0°

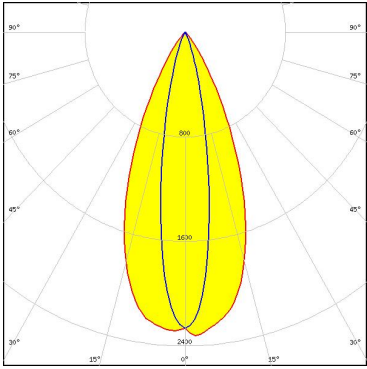
Efficiency: 71 %

Peak intensity: 2.3 cd/lm

LEDs/each optic: 1

Light colour/type: White

Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED: OSLO Pure 1414

FWHM / FWTM: 52.0 + 14.0° / 68.0 + 26.0°

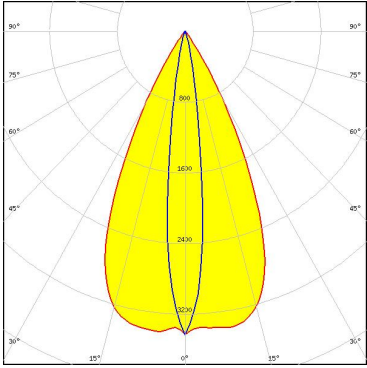
Efficiency: 81 %

Peak intensity: 3.4 cd/lm

LEDs/each optic: 1

Light colour/type: White

Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED: OSLO Square CSSRM2/CSSRM3

FWHM / FWTM: 50.0 + 20.0° / 74.0 + 39.0°

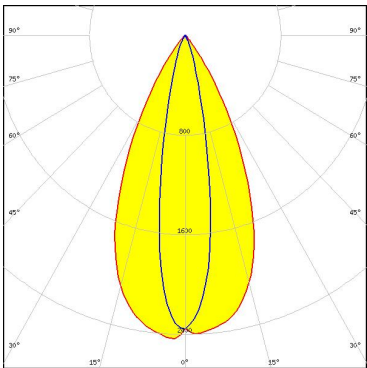
Efficiency: 79 %

Peak intensity: 2.4 cd/lm

LEDs/each optic: 1

Light colour/type: White

Required components:

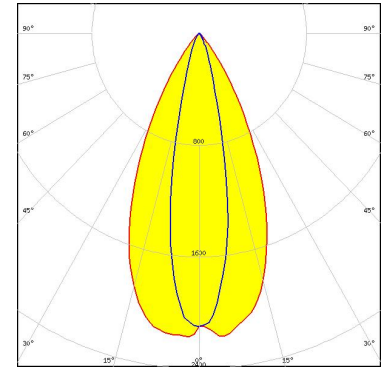


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

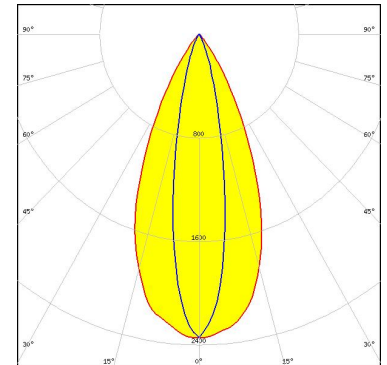
LED LH351C  
FWHM / FWTM 22.0 + 49.0°  
Efficiency 80 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Z5M4  
FWHM / FWTM 46.0 + 20.0° / 72.0 + 42.0°  
Efficiency 78 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



### 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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