

## VERONICA-SQ-W

~50° wide beam



### SPECIFICATION:

Dimensions	22.5 x 22.5 mm
Height	11.8 mm
Fastening	tape
ROHS compliant	yes 

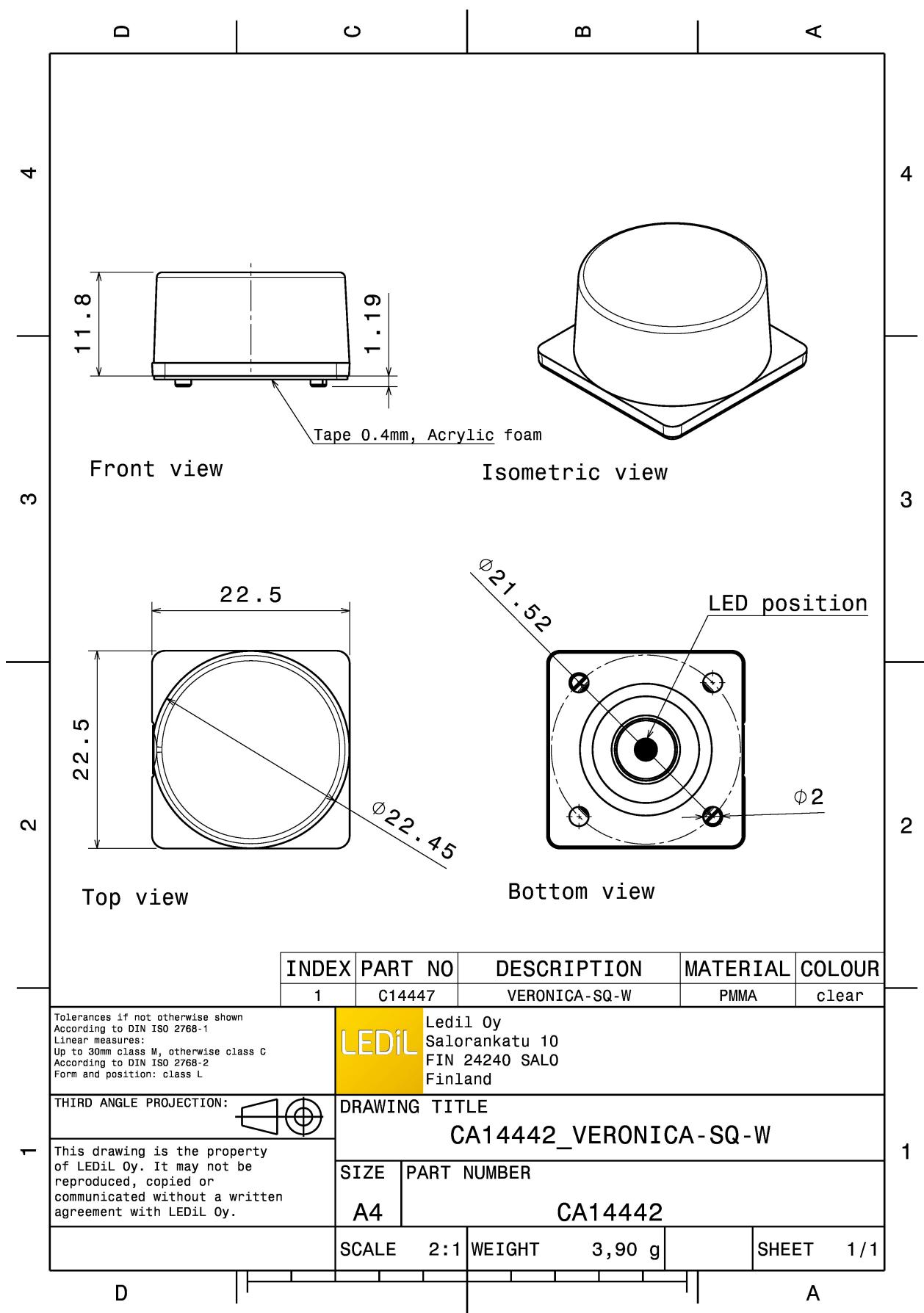
### MATERIALS:

LEDiL®

Component	Type	Material	Colour	Finish
VERONICA-SQ-W	Single lens	PMMA	clear	
VERONICA-TAPE	Tape	Acrylic foam	clear	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA14442_VERONICA-SQ-W » Box size: 476 x 273 x 197 mm	Single lens	1980	360	180

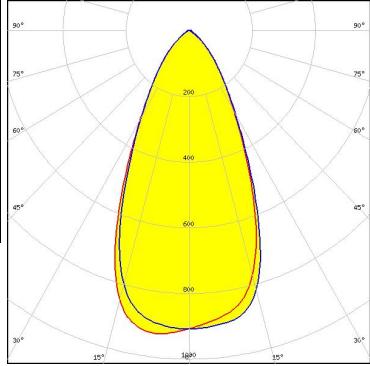


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

## OPTICAL RESULTS (MEASURED):



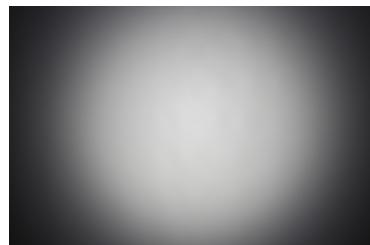
LED XB-H  
 FWHM / FWTM 50.0° / 90.0°  
 Efficiency 80 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



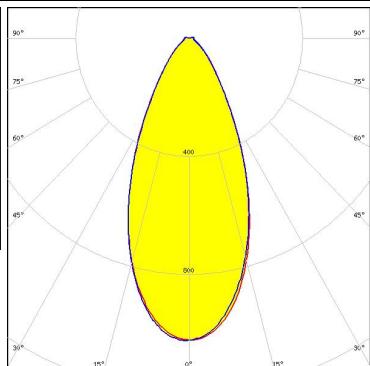
LED XHP35 HD  
 FWHM / FWTM 52.0° / 92.0°  
 Efficiency 78 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XHP35 HI  
 FWHM / FWTM 49.0° / 86.0°  
 Efficiency 81 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



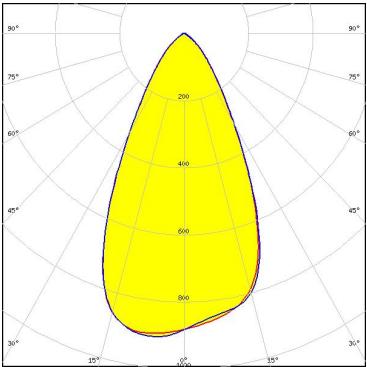
LED XHP50.2  
 FWHM / FWTM 47.0° / 89.0°  
 Efficiency 86 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



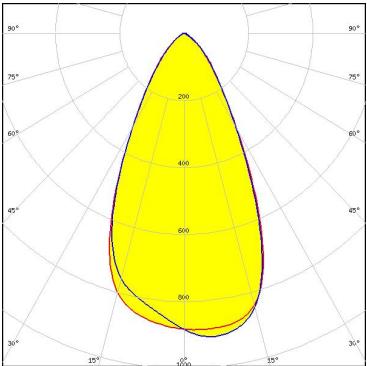
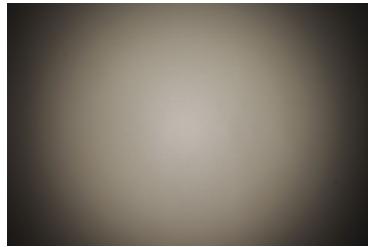
## OPTICAL RESULTS (MEASURED):



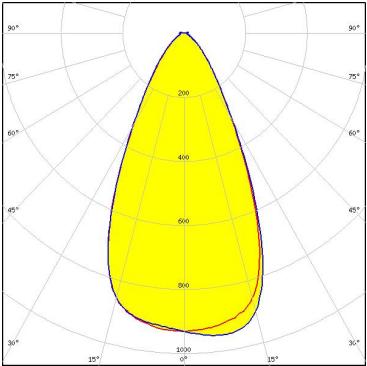
LED XM-L  
FWHM / FWTM 53.0° / 90.0°  
Efficiency 81 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



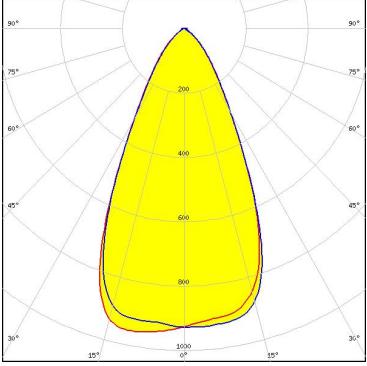
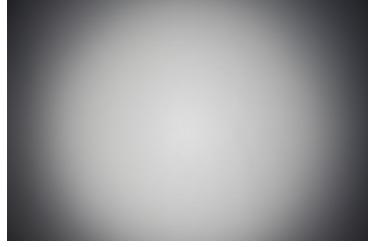
LED XM-L2  
FWHM / FWTM 53.0° / 91.0°  
Efficiency 80 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XM-L3  
FWHM / FWTM 52.0° / 90.0°  
Efficiency 87 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



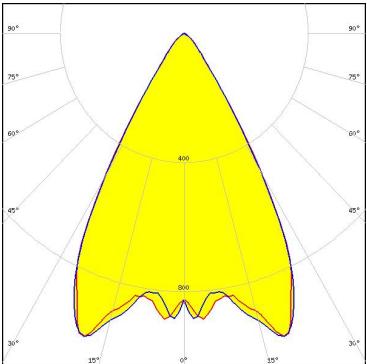
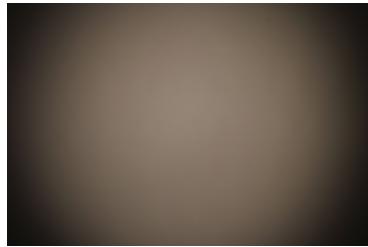
LED XP-E  
FWHM / FWTM 51.0° / 88.0°  
Efficiency 81 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



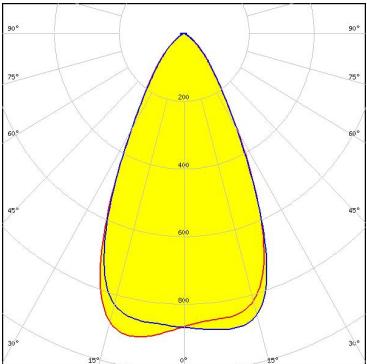
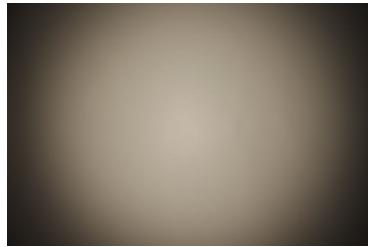
## OPTICAL RESULTS (MEASURED):



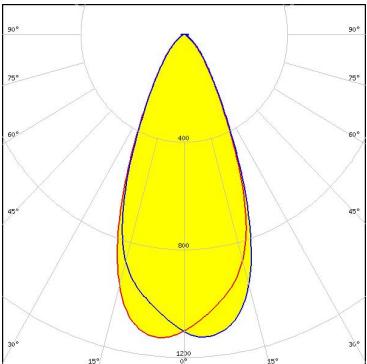
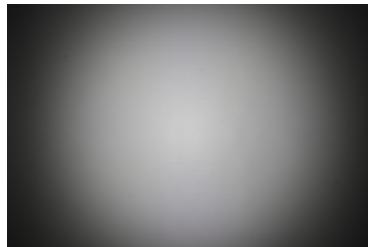
LED XP-E2  
FWHM / FWTM 52.0° / 94.0°  
Efficiency 92 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



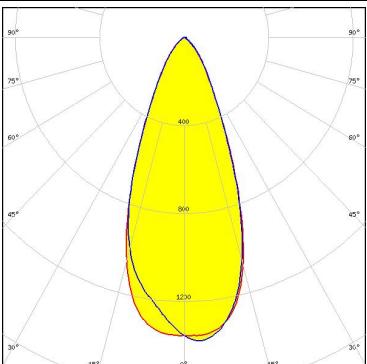
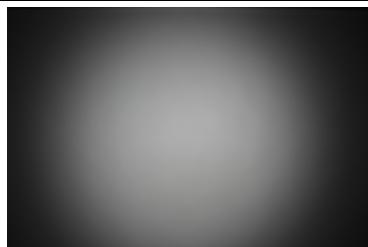
LED XP-G  
FWHM / FWTM 53.0° / 90.0°  
Efficiency 81 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XT-E  
FWHM / FWTM 46.0° / 81.0°  
Efficiency 80 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



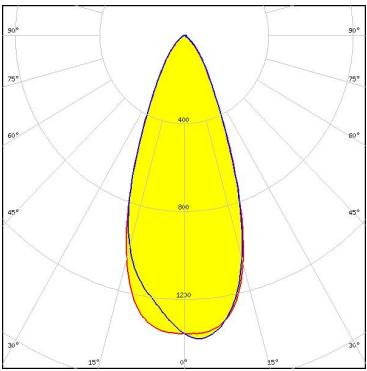
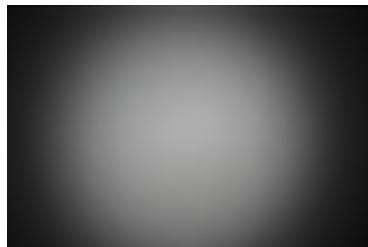
LED LUXEON 3030 2D (Round LES)  
FWHM / FWTM 42.0° / 76.0°  
Efficiency 83 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## OPTICAL RESULTS (MEASURED):

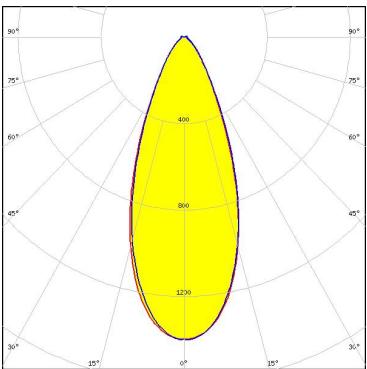
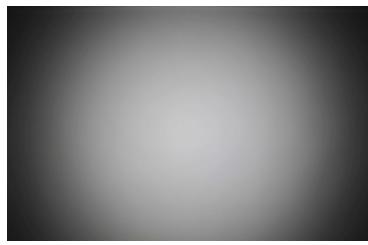
### LUMILEDS

LED LUXEON 3030 2D (Square LES)  
 FWHM / FWTM 42.0° / 76.0°  
 Efficiency 83 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



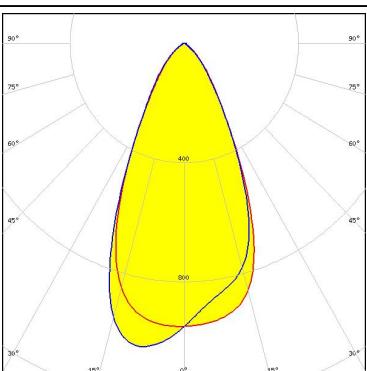
### LUMILEDS

LED LUXEON 5050 Round LES  
 FWHM / FWTM 41.0° / 77.0°  
 Efficiency 90 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



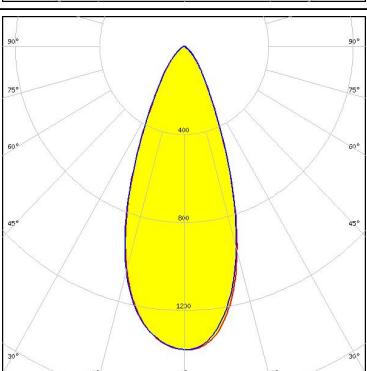
### LUMILEDS

LED LUXEON A  
 FWHM / FWTM 50.0° / 86.0°  
 Efficiency 79 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### LUMILEDS

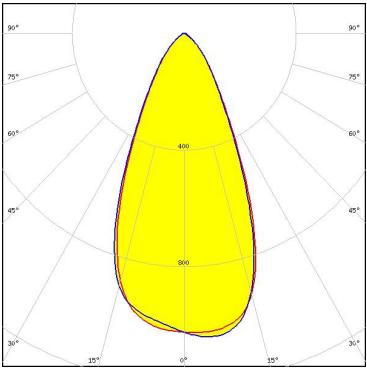
LED LUXEON MZ  
 FWHM / FWTM 41.0° / 75.0°  
 Efficiency 83 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## OPTICAL RESULTS (MEASURED):

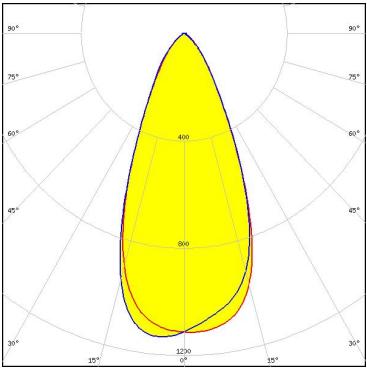
### LUMILEDS

LED LUXEON R  
FWHM / FWTM 48.0° / 85.0°  
Efficiency 80 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



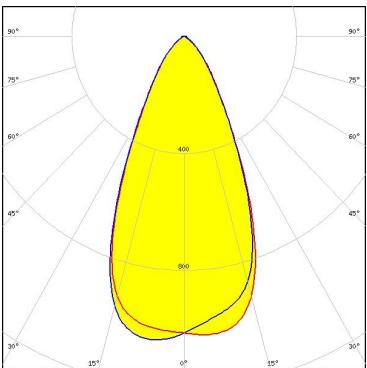
### LUMILEDS

LED LUXEON Rebel ES  
FWHM / FWTM 46.0° / 82.0°  
Efficiency 80 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



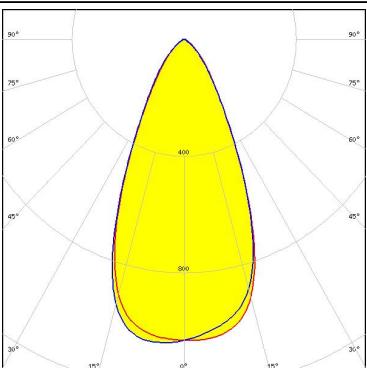
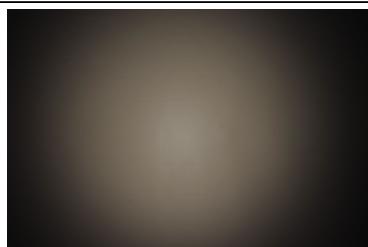
### LUMILEDS

LED LUXEON T  
FWHM / FWTM 49.0° / 86.0°  
Efficiency 82 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### LUMILEDS

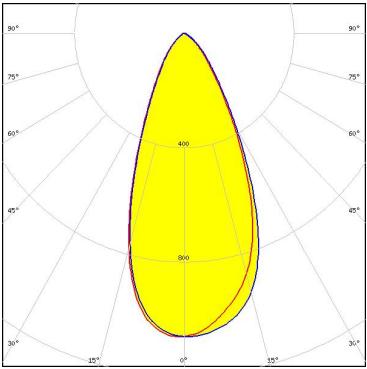
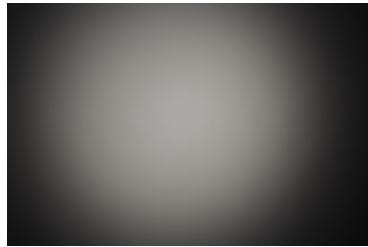
LED LUXEON TX  
FWHM / FWTM 48.0° / 85.0°  
Efficiency 81 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## OPTICAL RESULTS (MEASURED):

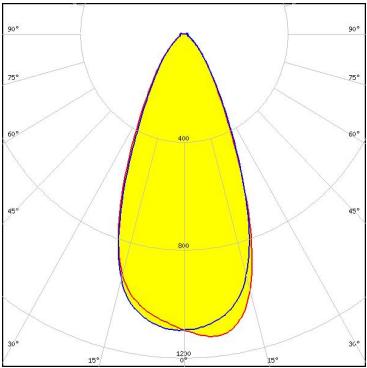
### LUMILEDS

LED LUXEON V  
FWHM / FWTM 46.0° / 84.0°  
Efficiency 79 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



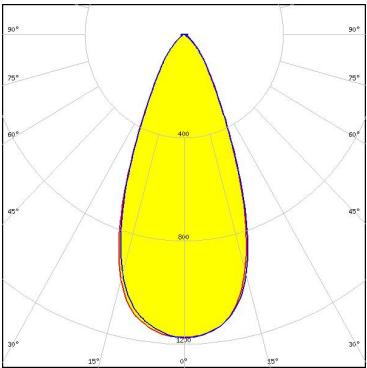
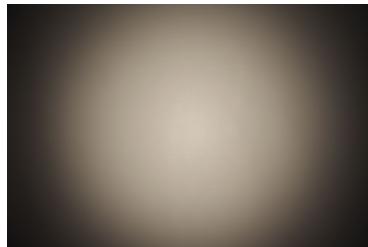
### LUMILEDS

LED LUXEON V2  
FWHM / FWTM 47.0° / 85.0°  
Efficiency 88 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



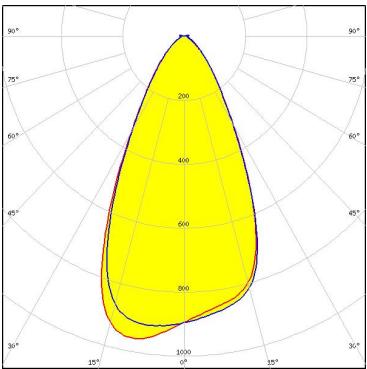
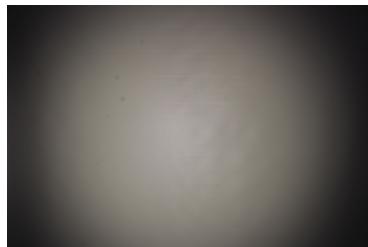
### NICHIA

LED NCSxx19B  
FWHM / FWTM 45.0° / 80.0°  
Efficiency 80 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

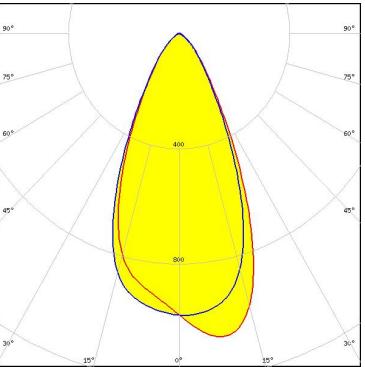
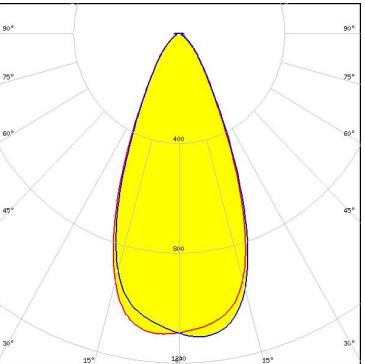
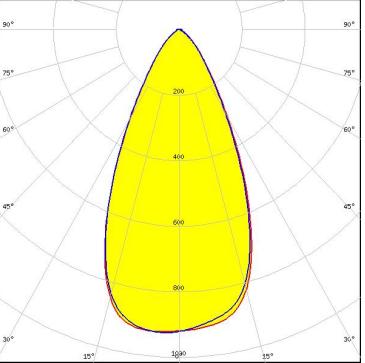
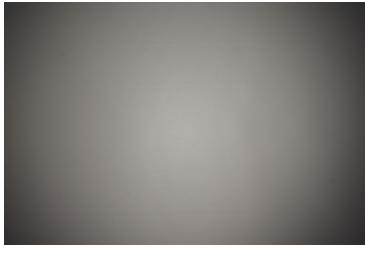
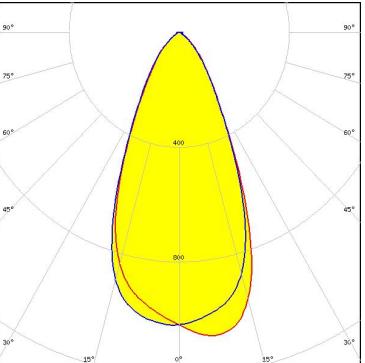


### NICHIA

LED NVSW219F  
FWHM / FWTM 52.0° / 92.0°  
Efficiency 88 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## OPTICAL RESULTS (MEASURED):

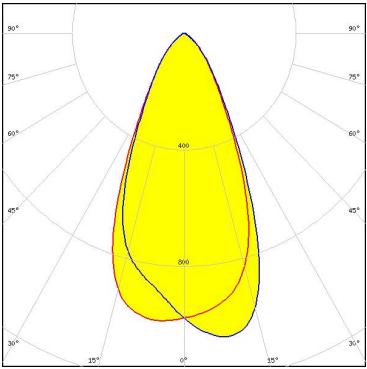
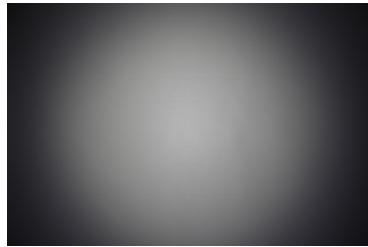
	<b>LED</b> NVSW3x9A		
<b>FWHM / FWTM</b> 48.0° / 83.0°			
<b>Efficiency</b> 78 %			
<b>Peak intensity</b> 1.1 cd/lm			
<b>LEDs/each optic</b> 1			
<b>Light colour</b> White			
<b>Required components:</b>			
	<b>LED</b> NVSxx19B/NVSxx19C		
<b>FWHM / FWTM</b> 46.0° / 81.0°			
<b>Efficiency</b> 81 %			
<b>Peak intensity</b> 1.1 cd/lm			
<b>LEDs/each optic</b> 1			
<b>Light colour</b> White			
<b>Required components:</b>			
	<b>LED</b> NWSx229A		
<b>FWHM / FWTM</b> 51.0° / 87.0°			
<b>Efficiency</b> 78 %			
<b>Peak intensity</b> 0.9 cd/lm			
<b>LEDs/each optic</b> 1			
<b>Light colour</b> White			
<b>Required components:</b>			
	<b>OSRAM</b> Opto Semiconductors		
<b>FWHM / FWTM</b> 48.0° / 86.0°			
<b>Efficiency</b> 80 %			
<b>Peak intensity</b> 1.1 cd/lm			
<b>LEDs/each optic</b> 1			
<b>Light colour</b> White			
<b>Required components:</b>			

## OPTICAL RESULTS (MEASURED):

### OSRAM

Opto Semiconductors

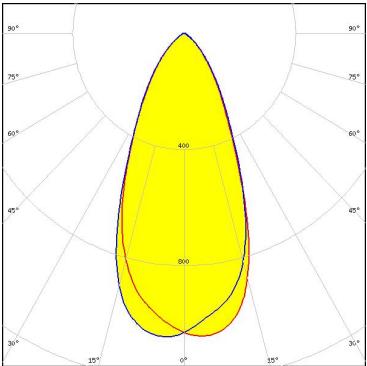
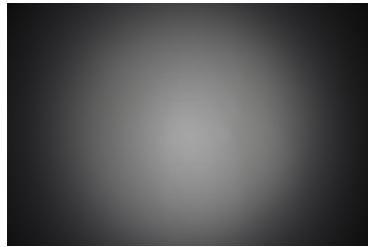
LED OSLON Square PC  
FWHM / FWTM 48.0° / 87.0°  
Efficiency 79 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### OSRAM

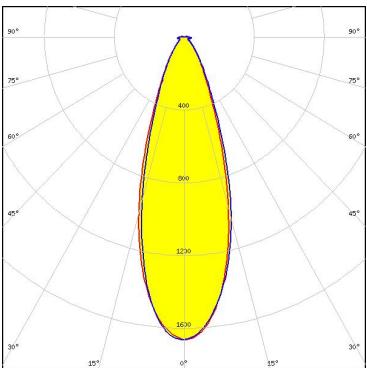
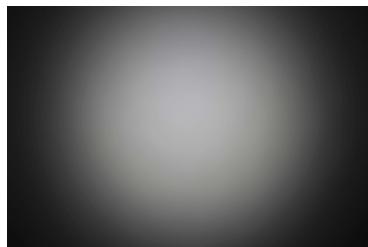
Opto Semiconductors

LED OSLON SSL 80  
FWHM / FWTM 46.0° / 88.0°  
Efficiency 80 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



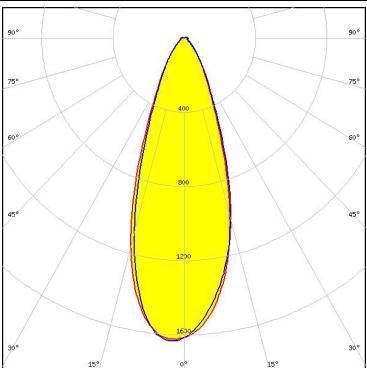
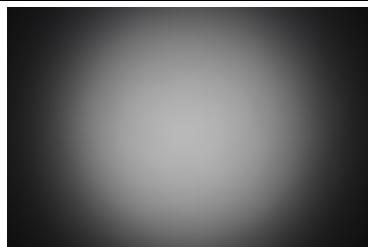
### SAMSUNG

LED LH181A  
FWHM / FWTM 34.0° / 68.0°  
Efficiency 87 %  
Peak intensity 1.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

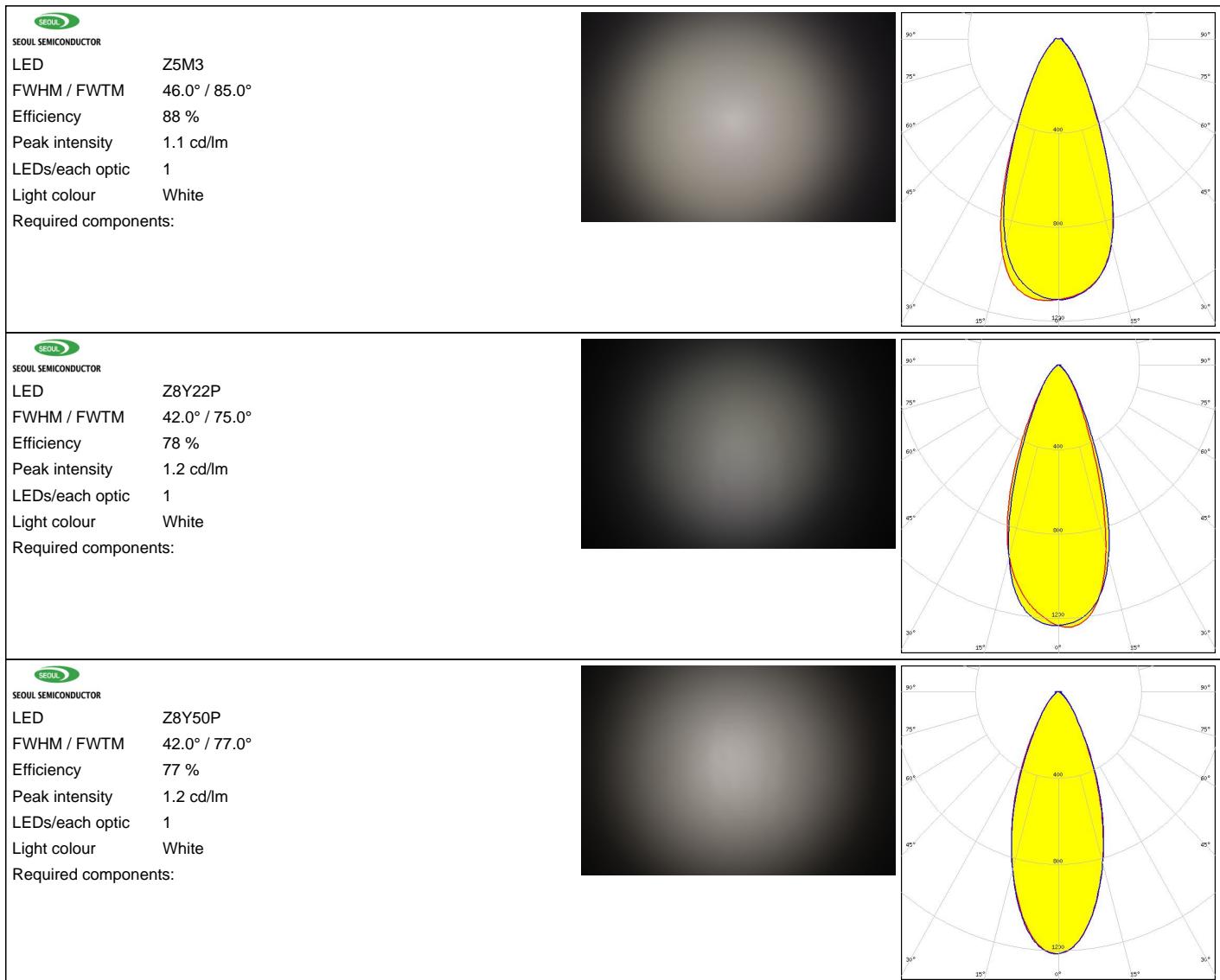


### SAMSUNG

LED LH181B  
FWHM / FWTM 37.0° / 71.0°  
Efficiency 90 %  
Peak intensity 1.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## OPTICAL RESULTS (MEASURED):

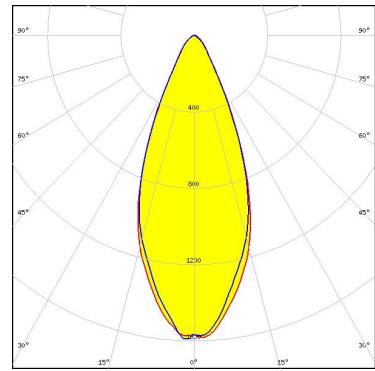


## OPTICAL RESULTS (SIMULATED):



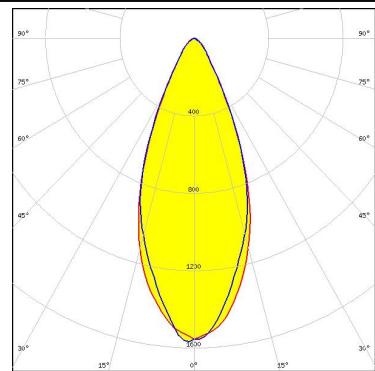
LED	J Series 5050 Round LES
FWHM / FWTM	42.0° / 71.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



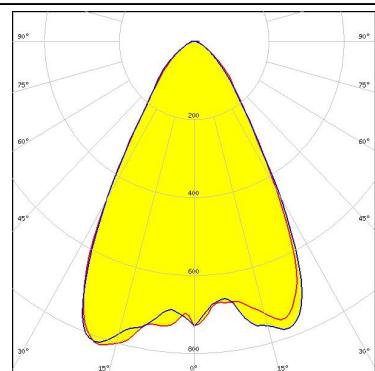
LED	J Series 5050B 6V K Class
FWHM / FWTM	42.0° / 72.0°
Efficiency	94 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



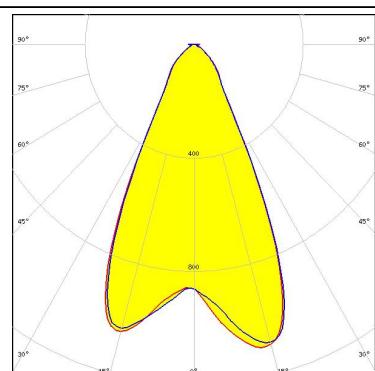
LED	XP-G2 HE
FWHM / FWTM	62.0° / 105.0°
Efficiency	97 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



LED	XQ-E HI
FWHM / FWTM	52.0° / 91.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

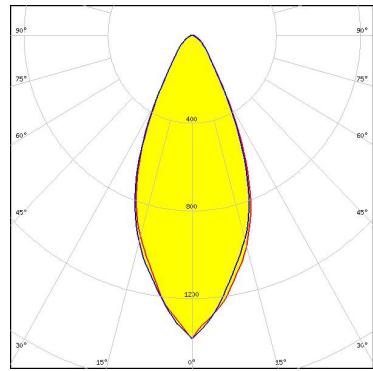


## OPTICAL RESULTS (SIMULATED):

### LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	45.0° / 78.0°
Efficiency	94 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour	White

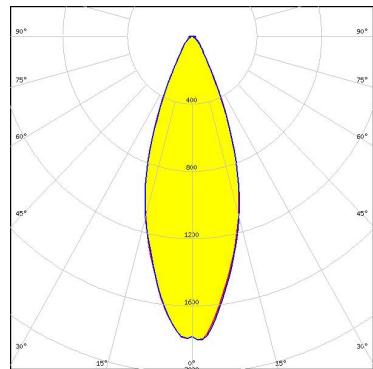
Required components:



### NICHIA

LED	NCSxE17A
FWHM / FWTM	36.0° / 64.0°
Efficiency	91 %
Peak intensity	1.8 cd/lm
LEDs/each optic	4
Light colour	White

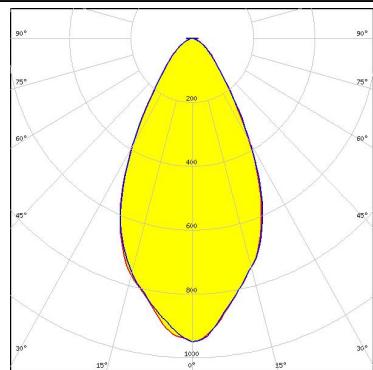
Required components:



### NICHIA

LED	NV4x144A
FWHM / FWTM	54.0° / 96.0°
Efficiency	89 %
Peak intensity	1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

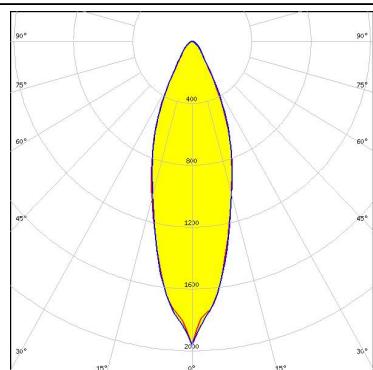


### OSRAM

Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	32.0° / 67.0°
Efficiency	94 %
Peak intensity	2 cd/lm
LEDs/each optic	4
Light colour	White

Required components:



## OPTICAL RESULTS (SIMULATED):

### OSRAM

Opto Semiconductors

LED OSCONIQ P 3030

FWHM / FWTM 48.0° / 81.0°

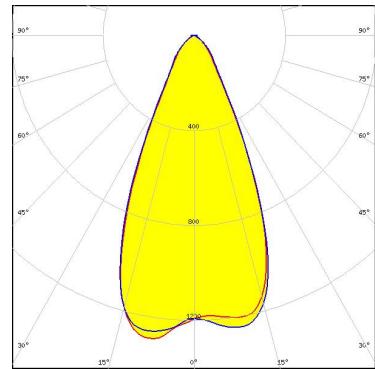
Efficiency 95 %

Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### OSRAM

Opto Semiconductors

LED OSCONIQ P 7070

FWHM / FWTM 42.0° / 78.0°

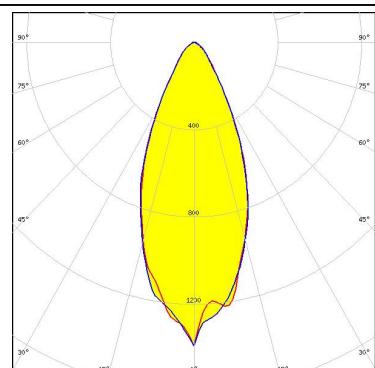
Efficiency 90 %

Peak intensity 1.4 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### OSRAM

Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

FWHM / FWTM 50.0° / 90.0°

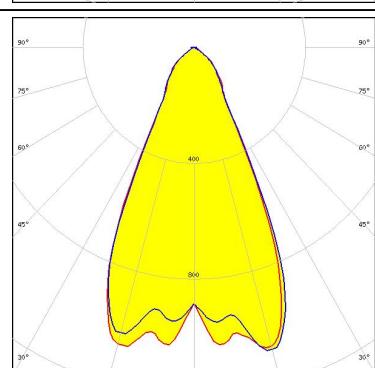
Efficiency 90 %

Peak intensity 1.1 cd/lm

LEDs/each optic 1

Light colour White

Required components:



### SEoul SEMICONDUCTOR

Opto Semiconductors

LED MJT 3030

FWHM / FWTM 48.0° / 80.0°

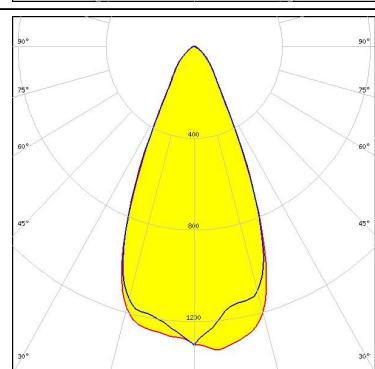
Efficiency 94 %

Peak intensity 1.3 cd/lm

LEDs/each optic 1

Light colour White

Required components:



## OPTICAL RESULTS (SIMULATED):

<p>SEoul SEMICONDUCTOR</p> <p>LED Z5M4</p> <p>FWHM / FWTM 45.0° / 77.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEoul SEMICONDUCTOR</p> <p>LED Z8Y22T</p> <p>FWHM / FWTM 41.0° / 69.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>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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