

## HEIDI-O

~50° x 11° oval beam

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	11.9 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

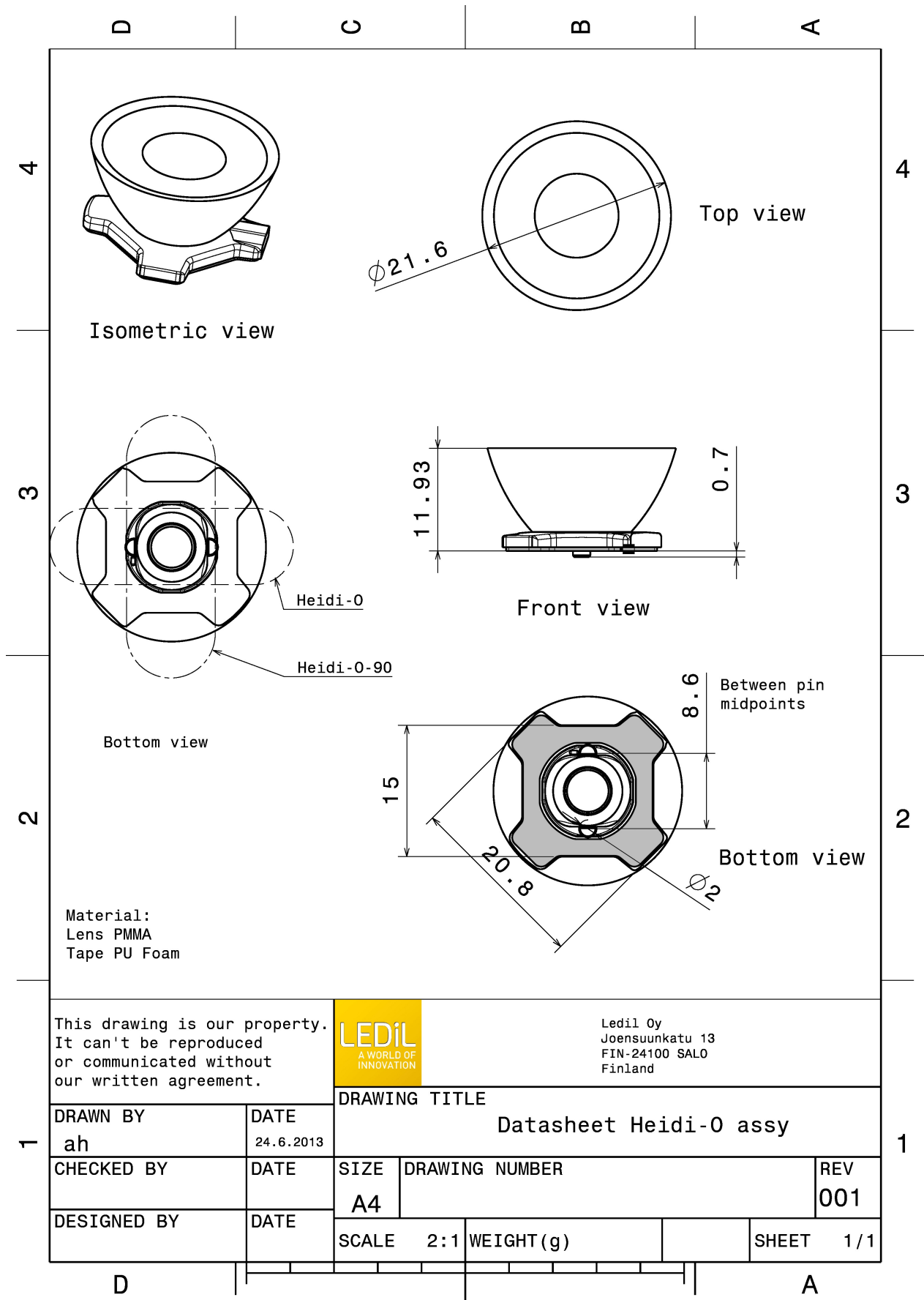
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
HEIDI-O	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	PU tape	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11266_HEIDI-O	Single lens	3264	204	204	9.7
» Box size: 480 x 280 x 300 mm					





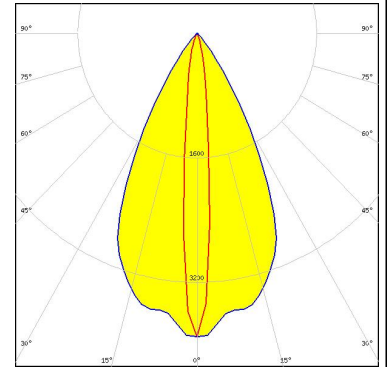
This drawing is our property. It can't be reproduced or communicated without our written agreement.				Ledil Oy Joensuunkatu 13 FIN-24100 SALO Finland	
DRAWN BY ah		DATE 24.6.2013		DRAWING TITLE Datasheet Heidi-0 assy	
CHECKED BY		DATE		SIZE A4	
DESIGNED BY		DATE		DRAWING NUMBER	
		SCALE 2:1		WEIGHT (g)	
				REV 001	
				SHEET 1/1	

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

### PHOTOMETRIC DATA (MEASURED):

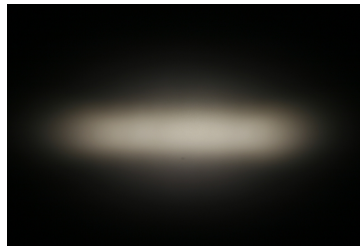
#### CREE → LED

LED XB-D White  
 FWHM / FWTM 54.0 + 10.0° / 77.0 + 27.0°  
 Efficiency 87 %  
 Peak intensity 3.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



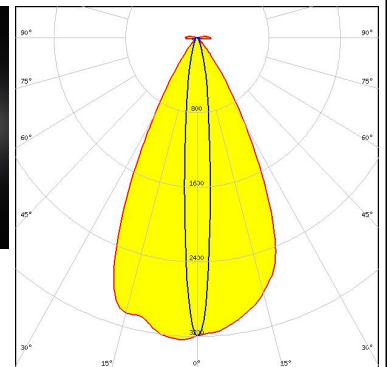
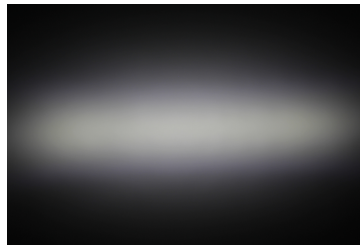
#### CREE → LED

LED XB-H  
 FWHM / FWTM 53.0 + 11.0° / 78.0 + 34.0°  
 Efficiency 83 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



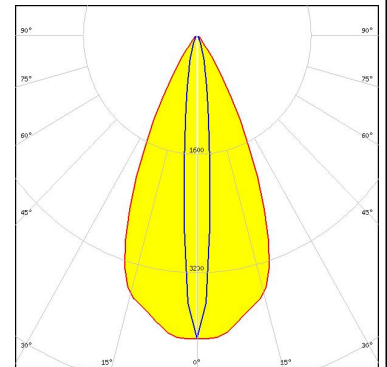
#### CREE → LED

LED XD16  
 FWHM / FWTM 52.0 + 10.0° / 75.0 + 30.0°  
 Efficiency 89 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE → LED

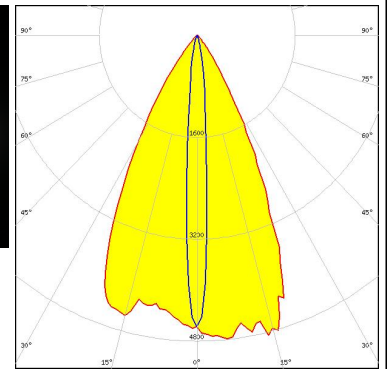
LED XP-E  
 FWHM / FWTM 48.0 + 10.0° / 70.0 + 30.0°  
 Efficiency 87 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

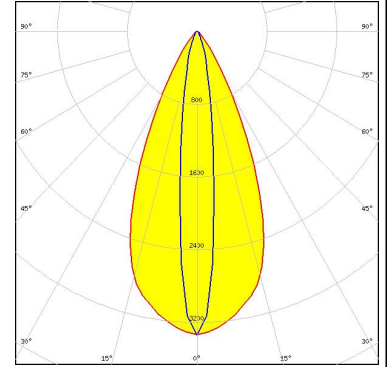
#### CREE → LED

LED XP-E2  
 FWHM / FWTM 54.0 + 9.0° / 75.0 + 23.0°  
 Efficiency 85 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



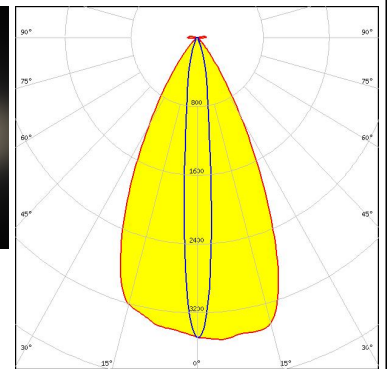
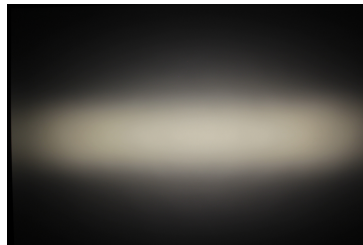
#### CREE → LED

LED XP-G  
 FWHM / FWTM 47.0 + 14.0° / 72.0 + 36.0°  
 Efficiency 87 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



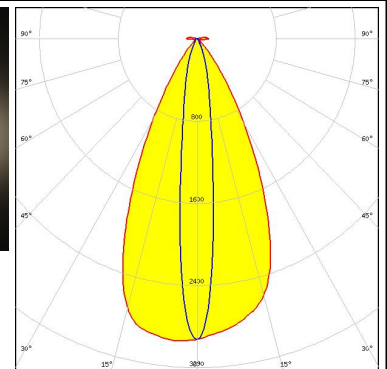
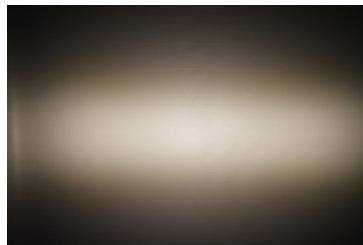
#### CREE → LED

LED XP-G2  
 FWHM / FWTM 52.0 + 11.0° / 76.0 + 32.0°  
 Efficiency 91 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE → LED

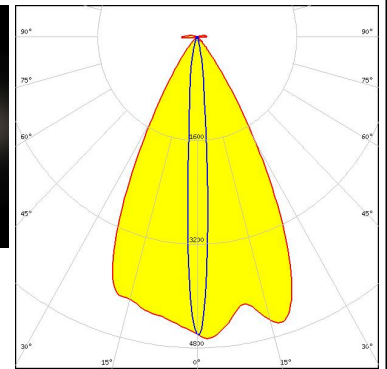
LED XP-G3  
 FWHM / FWTM 51.0 + 13.0° / 77.0 + 37.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

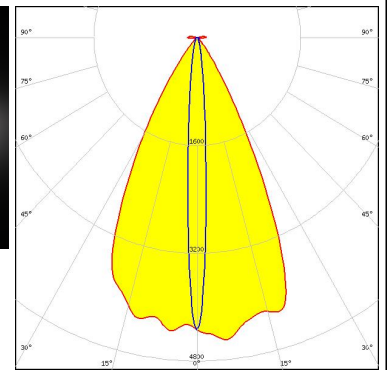
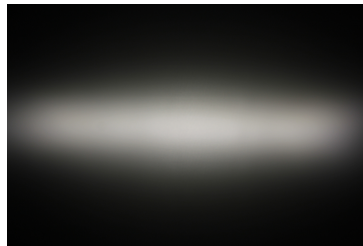
#### CREE LED

LED XQ-E HD  
 FWHM / FWTM 55.0 + 8.0° / 75.0 + 22.0°  
 Efficiency 93 %  
 Peak intensity 4.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



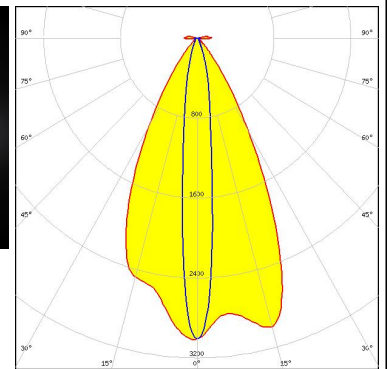
#### CREE LED

LED XQ-E HI  
 FWHM / FWTM 53.0 + 7.0° / 73.0 + 21.0°  
 Efficiency 90 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



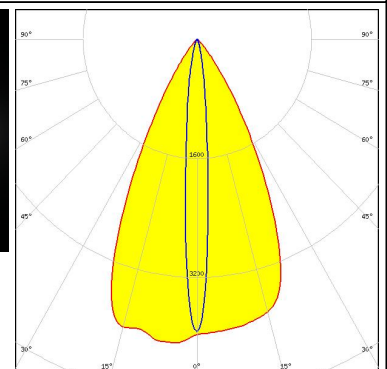
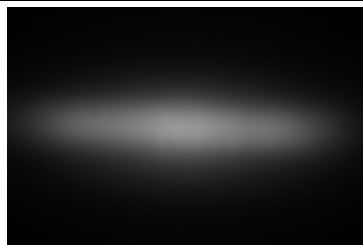
#### CREE LED

LED XT-E  
 FWHM / FWTM 52.0 + 12.0° / 78.0 + 35.0°  
 Efficiency 91 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

LED LUXEON C  
 FWHM / FWTM 53.0 + 9.0° / 75.0 + 25.0°  
 Efficiency 81 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

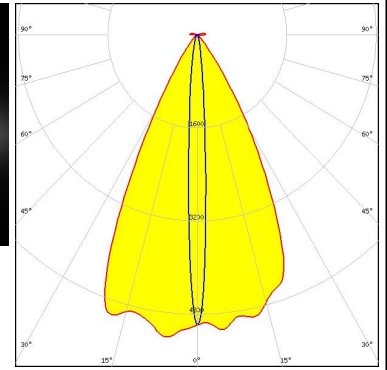




### PHOTOMETRIC DATA (MEASURED):

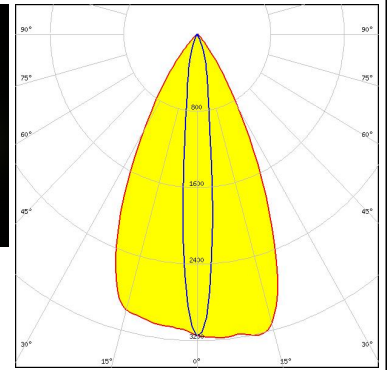
#### LUMILEDS

LED LUXEON CZ  
 FWHM / FWTM 53.0 + 7.0° / 72.0 + 20.0°  
 Efficiency 92 %  
 Peak intensity 5.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



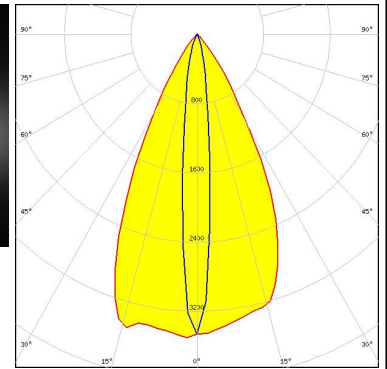
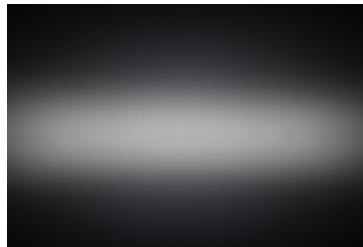
#### LUMILEDS

LED LUXEON T  
 FWHM / FWTM 52.0 + 12.0° / 76.0 + 33.0°  
 Efficiency 81 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



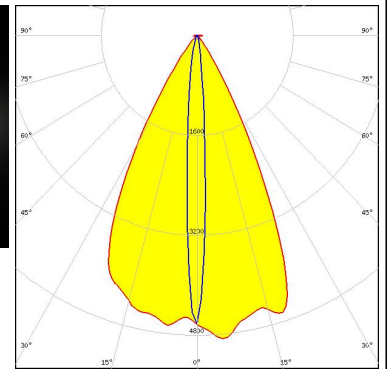
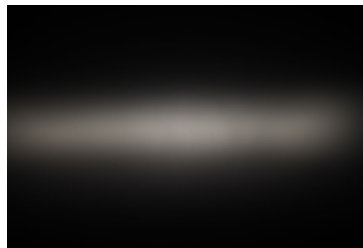
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 54.0 + 12.0° / 77.0 + 31.0°  
 Efficiency 82 %  
 Peak intensity 3.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

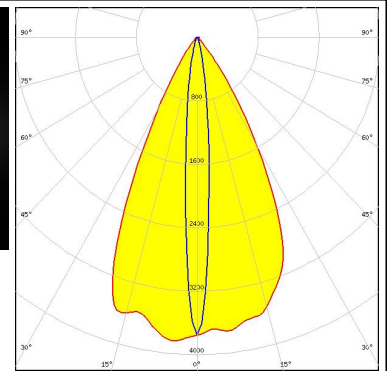
LED LUXEON Z  
 FWHM / FWTM 55.0 + 7.5° / 73.0 + 20.0°  
 Efficiency 87 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



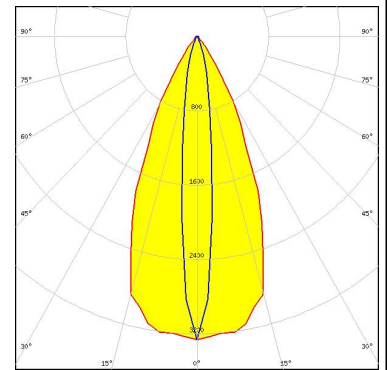
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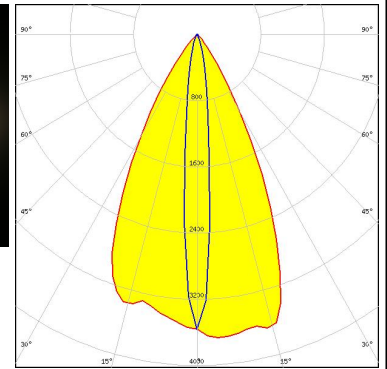
LED LUXEON Z ES  
 FWHM / FWTM 54.0 + 9.6° / 74.0 + 25.0°  
 Efficiency 85 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



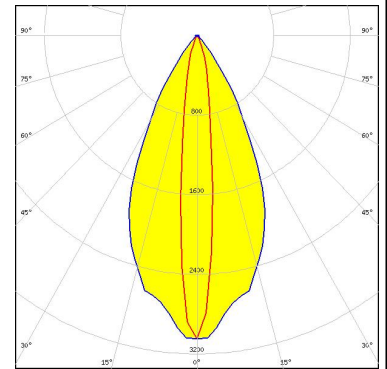
LED NCSxx19A  
 FWHM / FWTM 46.0 + 12.0° / 70.0 + 34.0°  
 Efficiency 82 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




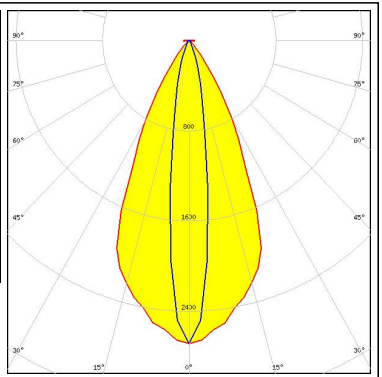

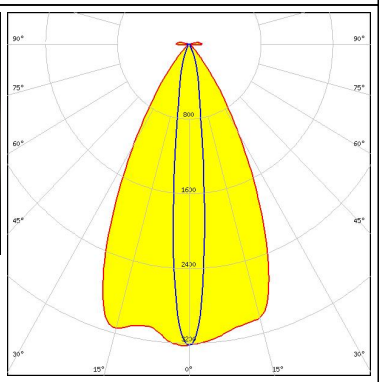

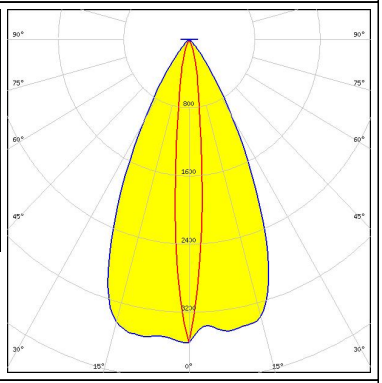

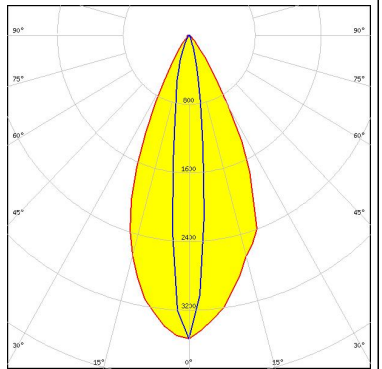
LED NCSxx19B  
 FWHM / FWTM 55.0 + 11.0° / 77.0 + 29.0°  
 Efficiency 83 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxx19A  
 FWHM / FWTM 50.0 + 12.0° / 76.0 + 35.0°  
 Efficiency 82 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 48.0 + 15.0° / 74.0 + 36.0°            Efficiency 82 %            Peak intensity 2.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 54.0 + 12.0° / 78.0 + 33.0°            Efficiency 92 %            Peak intensity 3.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3            FWHM / FWTM 52.0 + 13.0° / 80.0 + 32.0°            Efficiency 80 %            Peak intensity 3.7 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLOM Square EC            FWHM / FWTM 48.0 + 12.0° / 74.0 + 30.0°            Efficiency 86 %            Peak intensity 3.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

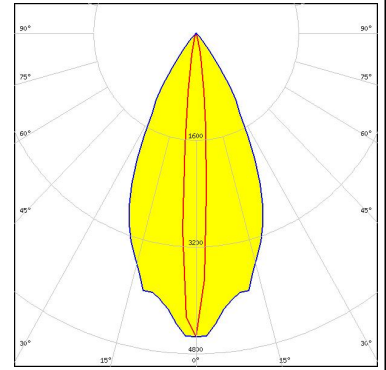


### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

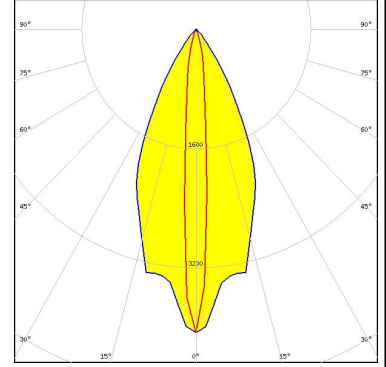
LED OSLON SSL 150  
 FWHM / FWTM 50.0 + 8.0° / 75.0 + 22.0°  
 Efficiency 85 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

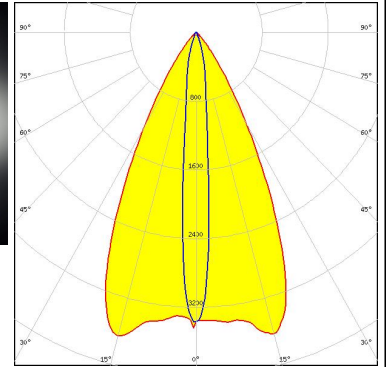
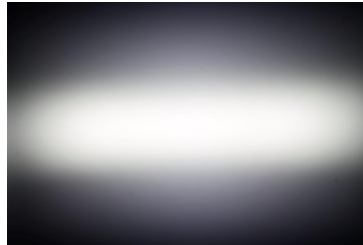
Opto Semiconductors

LED OSLON SSL 80  
 FWHM / FWTM 47.0 + 8.0° / 73.0 + 27.0°  
 Efficiency 83 %  
 Peak intensity 4.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



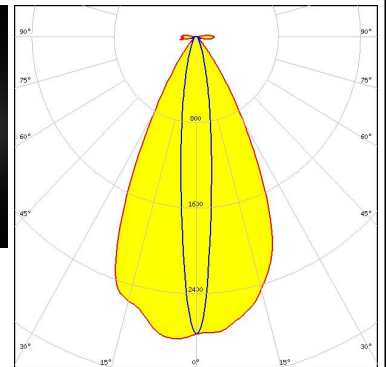
#### PHILIPS

LED Fortimo FastFlex 2x8 DS G3  
 FWHM / FWTM 55.0 + 11.0° / 77.0 + 32.0°  
 Efficiency 86 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

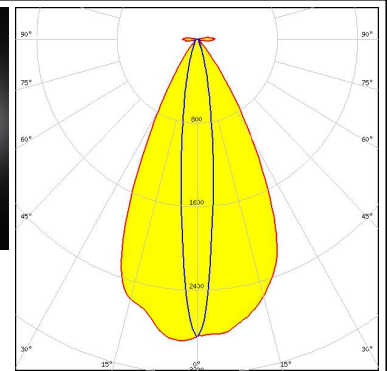
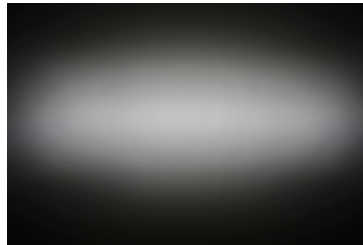
LED LH181A  
 FWHM / FWTM 52.0 + 12.0° / 76.0 + 36.0°  
 Efficiency 93 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

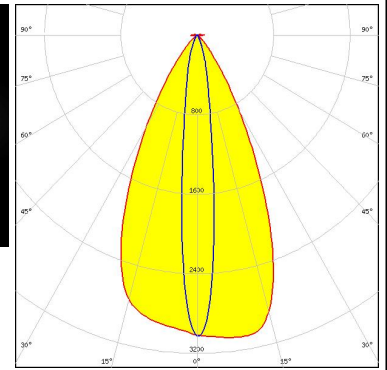
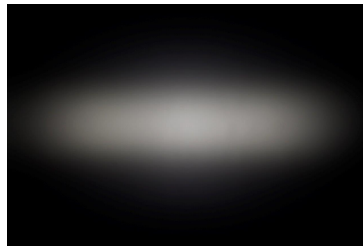
#### SAMSUNG

LED LH181B  
 FWHM / FWTM 53.0 + 13.0° / 75.0 + 35.0°  
 Efficiency 90 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



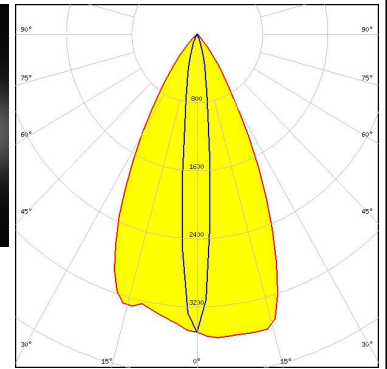
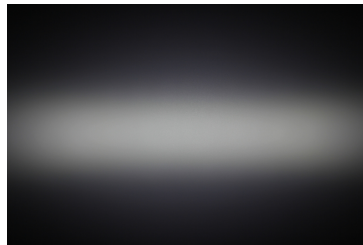
#### SAMSUNG

LED LH351B  
 FWHM / FWTM 51.0 + 13.0° / 77.0 + 34.0°  
 Efficiency 84 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



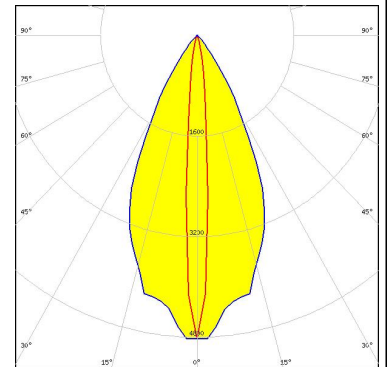
#### SAMSUNG

LED LH351Z  
 FWHM / FWTM 54.0 + 12.0° / 78.0 + 32.0°  
 Efficiency 83 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



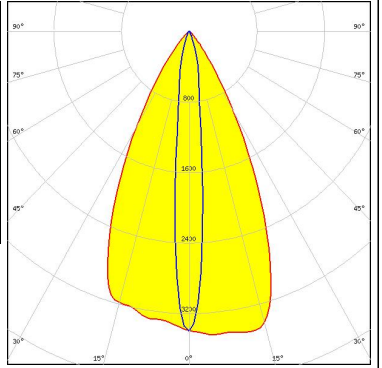
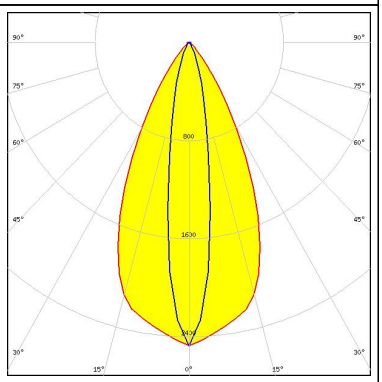


SEOUL SEMICONDUCTOR

LED Z5  
 FWHM / FWTM 50.0 + 9.0° / 74.0 + 23.0°  
 Efficiency 86 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



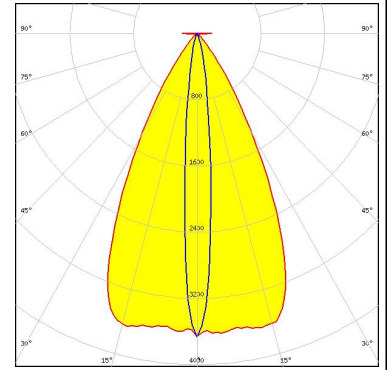
**PHOTOMETRIC DATA (MEASURED):**

<p> SEUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 53.0 + 11.0° / 77.0 + 32.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>SHARP</b></p> <p>LED Double Dome (GM2BB)</p> <p>FWHM / FWTM 50.0 + 16.0° / 79.0 + 40.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### PHOTOMETRIC DATA (SIMULATED):

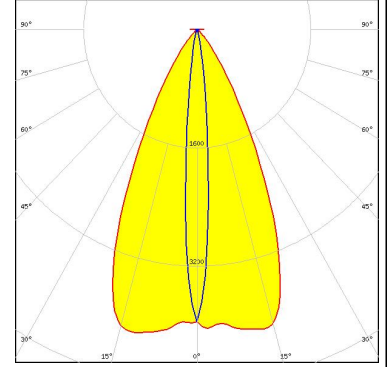
#### LUMILEDS

LED LUXEON 3030 HV  
 FWHM / FWTM 55.0 + 11.0° / 78.0 + 28.0°  
 Efficiency 90 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



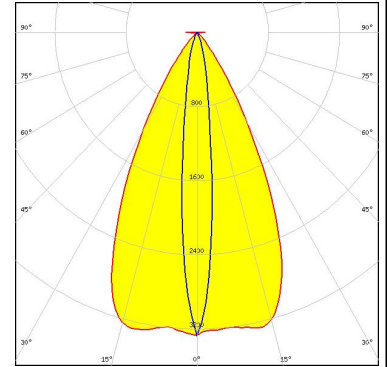
#### LUMILEDS

LED LUXEON SunPlus 20 Line (150 deg)  
 FWHM / FWTM 52.0 + 10.0° / 76.0 + 20.0°  
 Efficiency 87 %  
 Peak intensity 4.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



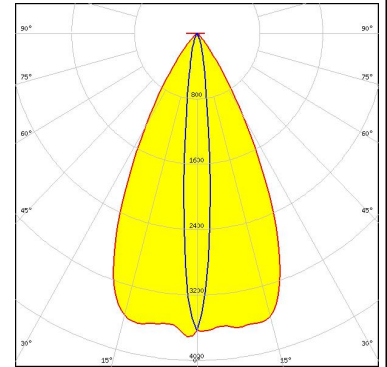
#### NICHIA

LED NF2x757G  
 FWHM / FWTM 54.0 + 12.0° / 78.0 + 29.0°  
 Efficiency 91 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### NICHIA

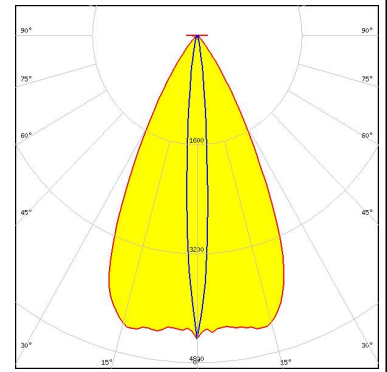
LED NFSx757G  
 FWHM / FWTM 54.0 + 10.0° / 78.0 + 28.0°  
 Efficiency 0 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM Opto Semiconductors

LED OSCONIQ P 3030  
 FWHM / FWTM 53.0 + 8.0° / 75.0 + 20.0°  
 Efficiency 89 %  
 Peak intensity 4.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

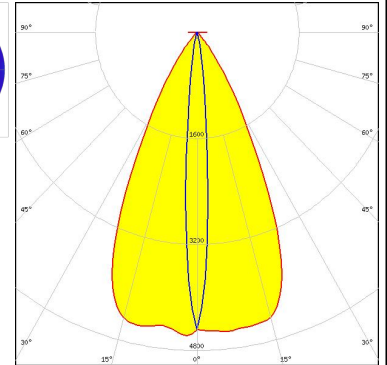
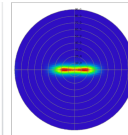
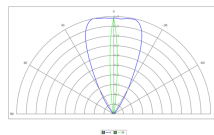


#### OSRAM Opto Semiconductors

LED OSLOK Black Flat  
 FWHM / FWTM 49.7 + 7.8° / 71.9 + 18.6°  
 Efficiency 93 %  
 Peak intensity 5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

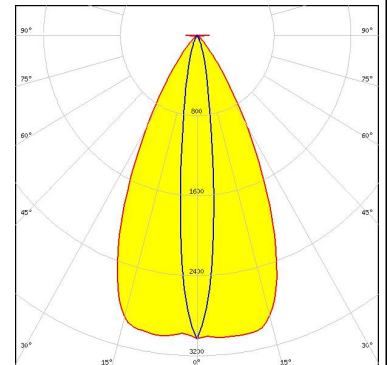
#### OSRAM Opto Semiconductors

LED SFH 4716S  
 FWHM / FWTM 52.0 + 9.0° / 74.0 + 19.0°  
 Efficiency 93 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



#### SEOL SEMICONDUCTOR

LED Z5M3  
 FWHM / FWTM 52.0 + 13.0° / 78.0 + 34.0°  
 Efficiency 90 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





## PHOTOMETRIC DATA (SIMULATED):



### 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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