

## HEIDI-O

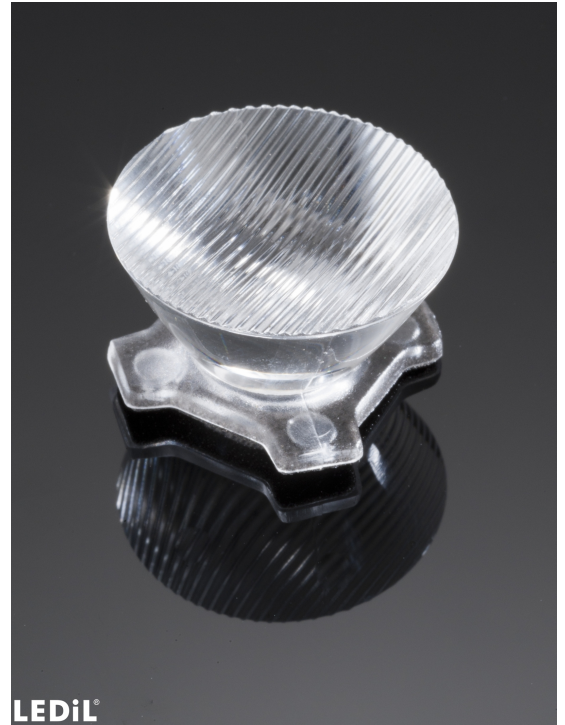
~50° x 11° oval beam

### SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	11.7 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

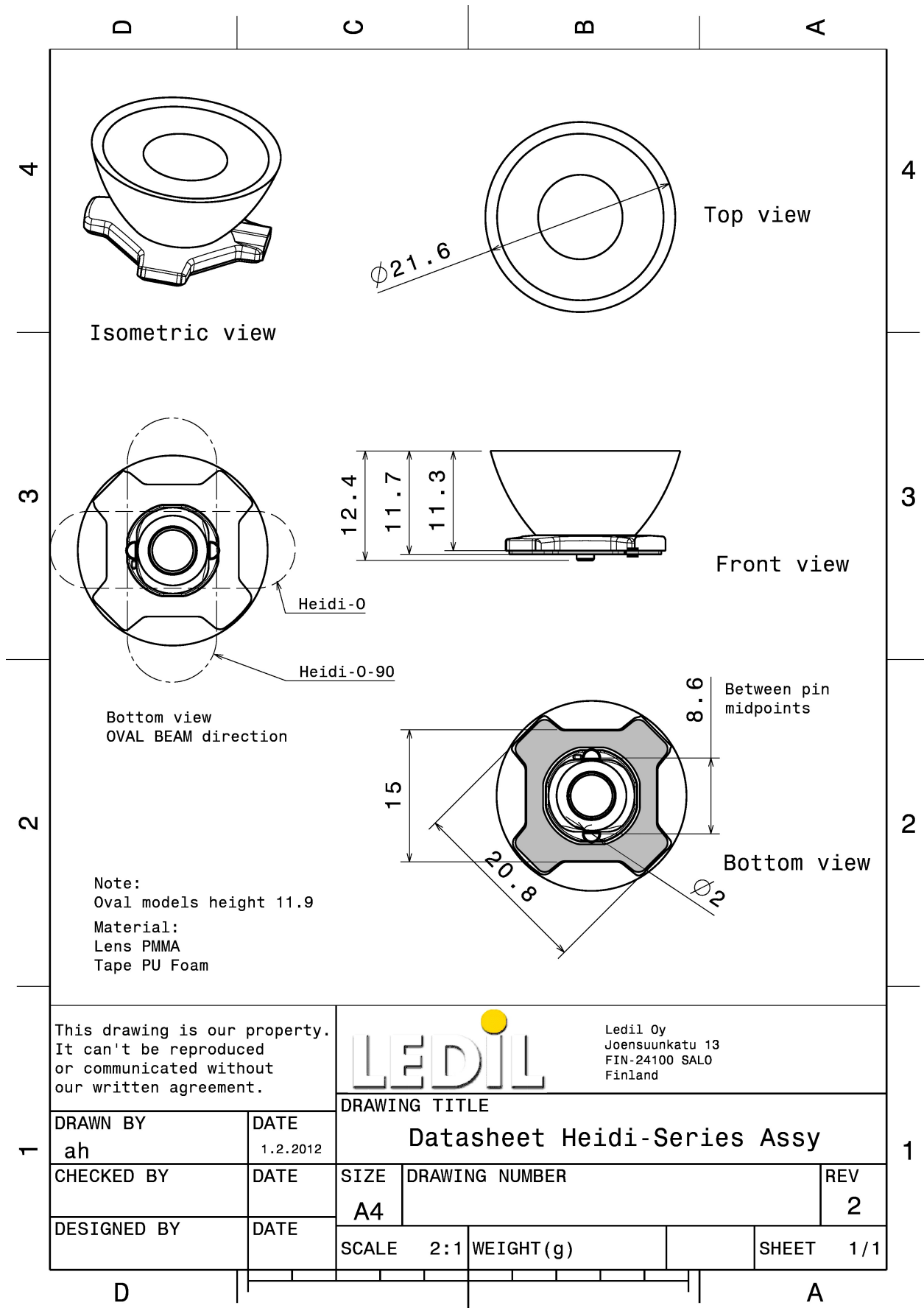
### MATERIALS:

Component	Type	Material	Colour	Finish
HEIDI-O	Single lens	PMMA	clear	
HEIDI-TAPE	Tape	Acrylic foam	black	



### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12949_HEIDI-O	Single lens	3264	204	204	11.1
» Box size: 480 x 280 x 300 mm					



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

### OPTICAL RESULTS (MEASURED):

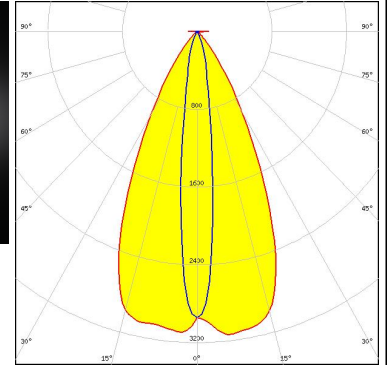
#### CREE LED

LED XHP35 HD  
 FWHM / FWTM 51.0 + 18.0° / 84.0 + 50.0°  
 Efficiency 77 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



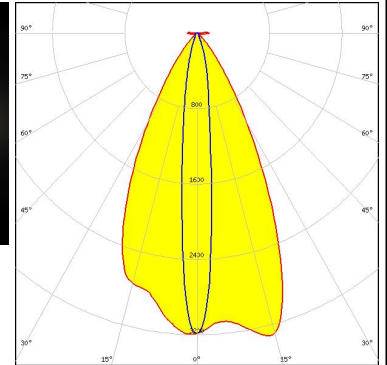
#### CREE LED

LED XHP35 HI  
 FWHM / FWTM 53.0 + 14.0° / 80.0 + 40.0°  
 Efficiency 79 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



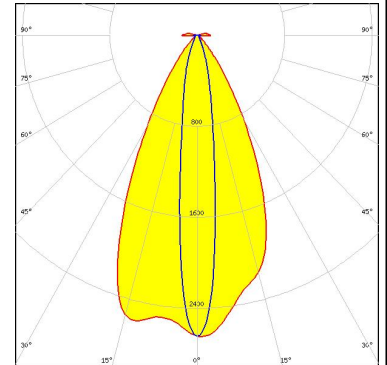
#### CREE LED

LED XP-G2  
 FWHM / FWTM 52.0 + 12.0° / 78.0 + 33.0°  
 Efficiency 91 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE LED

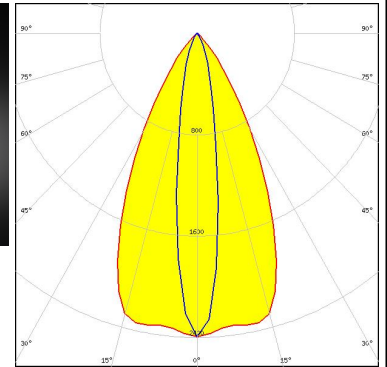
LED XP-G3  
 FWHM / FWTM 51.0 + 14.0° / 79.0 + 39.0°  
 Efficiency 90 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



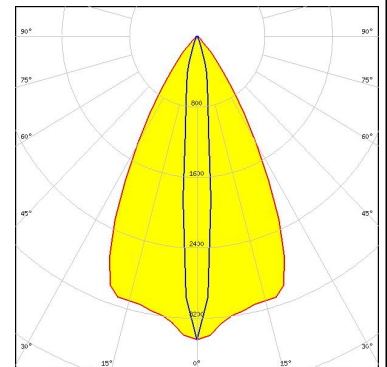
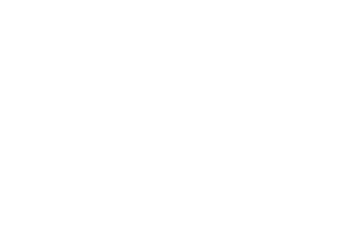
### OPTICAL RESULTS (MEASURED):



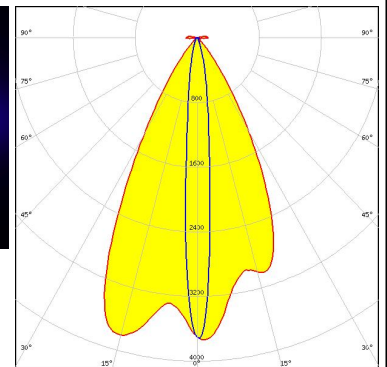
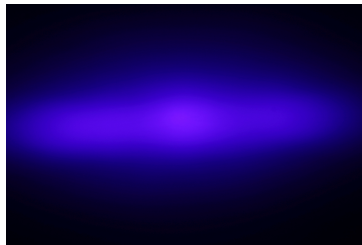
LED XP-L HD  
 FWHM / FWTM 52.0 + 16.0° / 79.0 + 41.0°  
 Efficiency 81 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



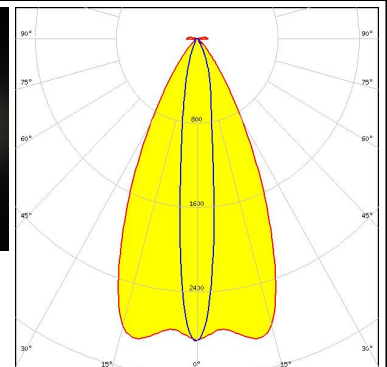
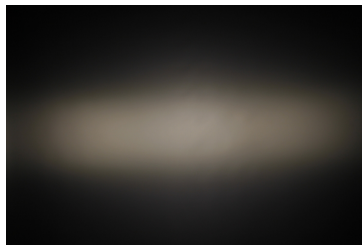
LED LUXEON Rebel ES  
 FWHM / FWTM 53.0 + 12.0° / 76.0 + 33.0°  
 Efficiency 82 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




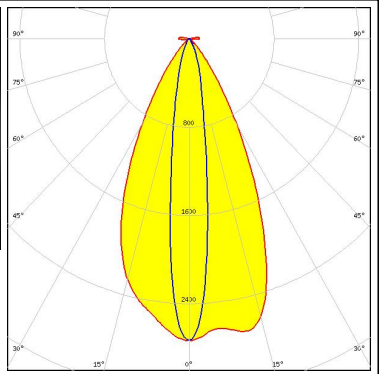

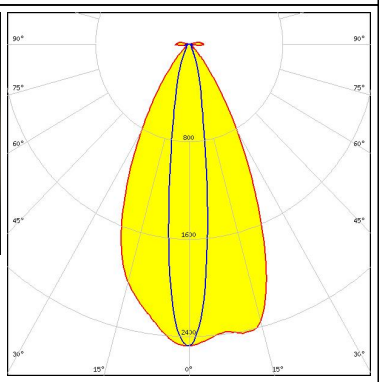

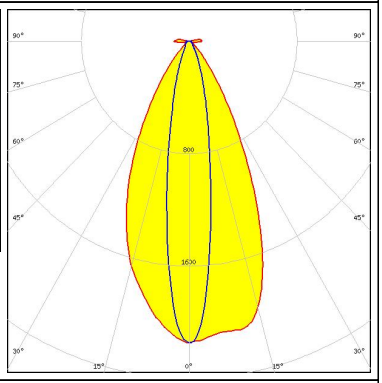

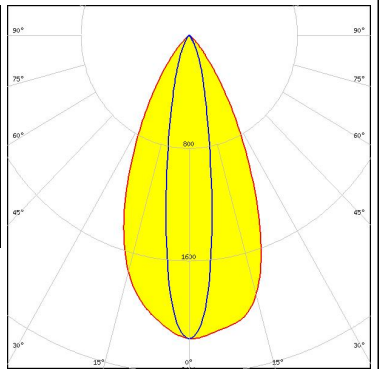
LED SST-10-B130  
 FWHM / FWTM 54.0 + 9.5° / 77.0 + 28.0°  
 Efficiency 90 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour Blue  
 Required components:




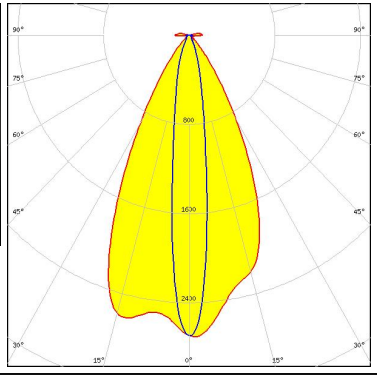
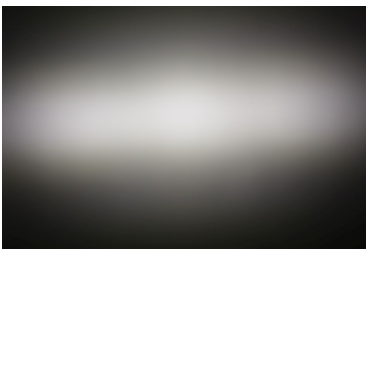
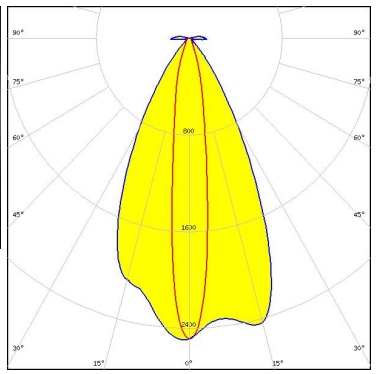
LED NVSW219D  
 FWHM / FWTM 51.0 + 13.0° / 78.0 + 40.0°  
 Efficiency 91 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSW319B</p> <p>FWHM / FWTM 51.0 + 15.0° / 80.0 + 38.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW3x9A</p> <p>FWHM / FWTM 51.0 + 15.0° / 80.0 + 39.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW519A</p> <p>FWHM / FWTM 50.0 + 18.0° / 81.0 + 44.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 2.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NWSx229A</p> <p>FWHM / FWTM 50.0 + 18.0° / 80.0 + 44.0°</p> <p>Efficiency 76 %</p> <p>Peak intensity 2.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

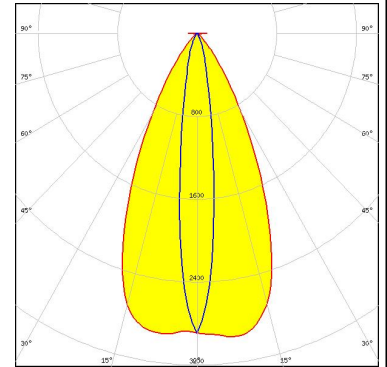
### OPTICAL RESULTS (MEASURED):

<p> SEUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 52.0 + 13.0° / 79.0 + 39.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> SEUL SEMICONDUCTOR</p> <p>LED Z8Y22P</p> <p>FWHM / FWTM 52.0 + 14.0° / 79.0 + 39.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### OPTICAL RESULTS (SIMULATED):



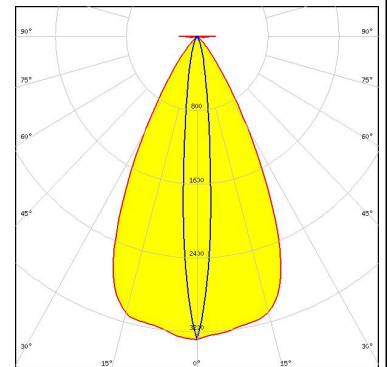
**LED** XP-G2 HE  
**FWHM / FWTM** 50.0 + 14.0° / 78.0 + 35.0°  
**Efficiency** 88 %  
**Peak intensity** 3 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON A  
**FWHM / FWTM** 51.0 + 12.0° / 76.0 + 30.0°  
**Efficiency** 84 %  
**Peak intensity** 3.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**

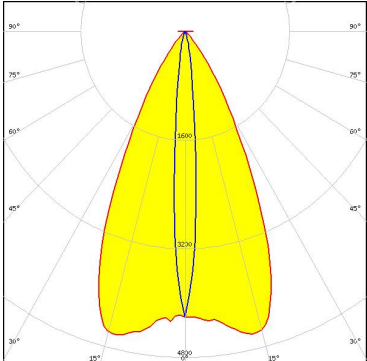
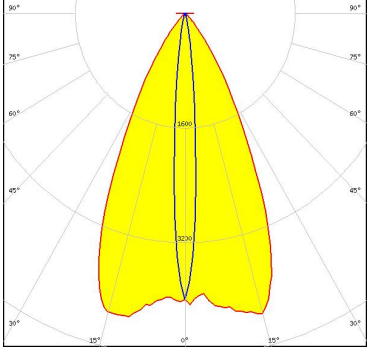
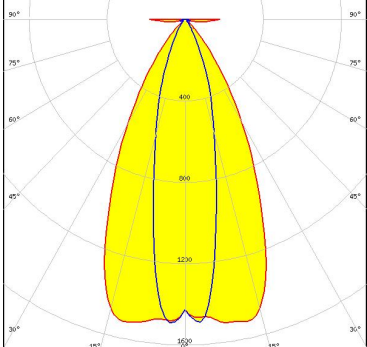
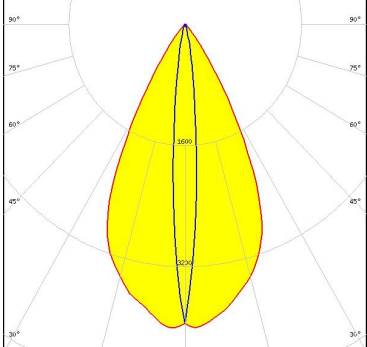


**LED** LUXEON HL2Z  
**FWHM / FWTM** 54.0 + 10.0° / 76.0 + 28.0°  
**Efficiency** 89 %  
**Peak intensity** 3.3 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON R  
**FWHM / FWTM** 53.0 + 12.0°  
**Efficiency** %  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**

### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON SunPlus 20 Line (120 deg)            FWHM / FWTM 52.0 + 9.0° / 76.0 + 22.0°            Efficiency 91 %            Peak intensity 4.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON SunPlus 20 Line (150 deg)            FWHM / FWTM 52.0 + 10.0° / 76.0 + 20.0°            Efficiency 87 %            Peak intensity 4.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NCSxE17A            FWHM / FWTM 54.0 + 24.0° / 180.0 + 54.0°            Efficiency 81 %            Peak intensity 1.5 cd/lm            LEDs/each optic 4            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLOM Black            FWHM / FWTM 53.0 + 9.0° / 54.0 + 23.0°            Efficiency 88 %            Peak intensity 4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	



### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED	OSLON Black Flat (LUW HWQP)
FWHM / FWTM	54.0 + 8.0° / 74.0 + 18.0°
Efficiency	89 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

