

## HEIDI-SS

~15° smooth spot beam optimized for LUXEON Rebel ES

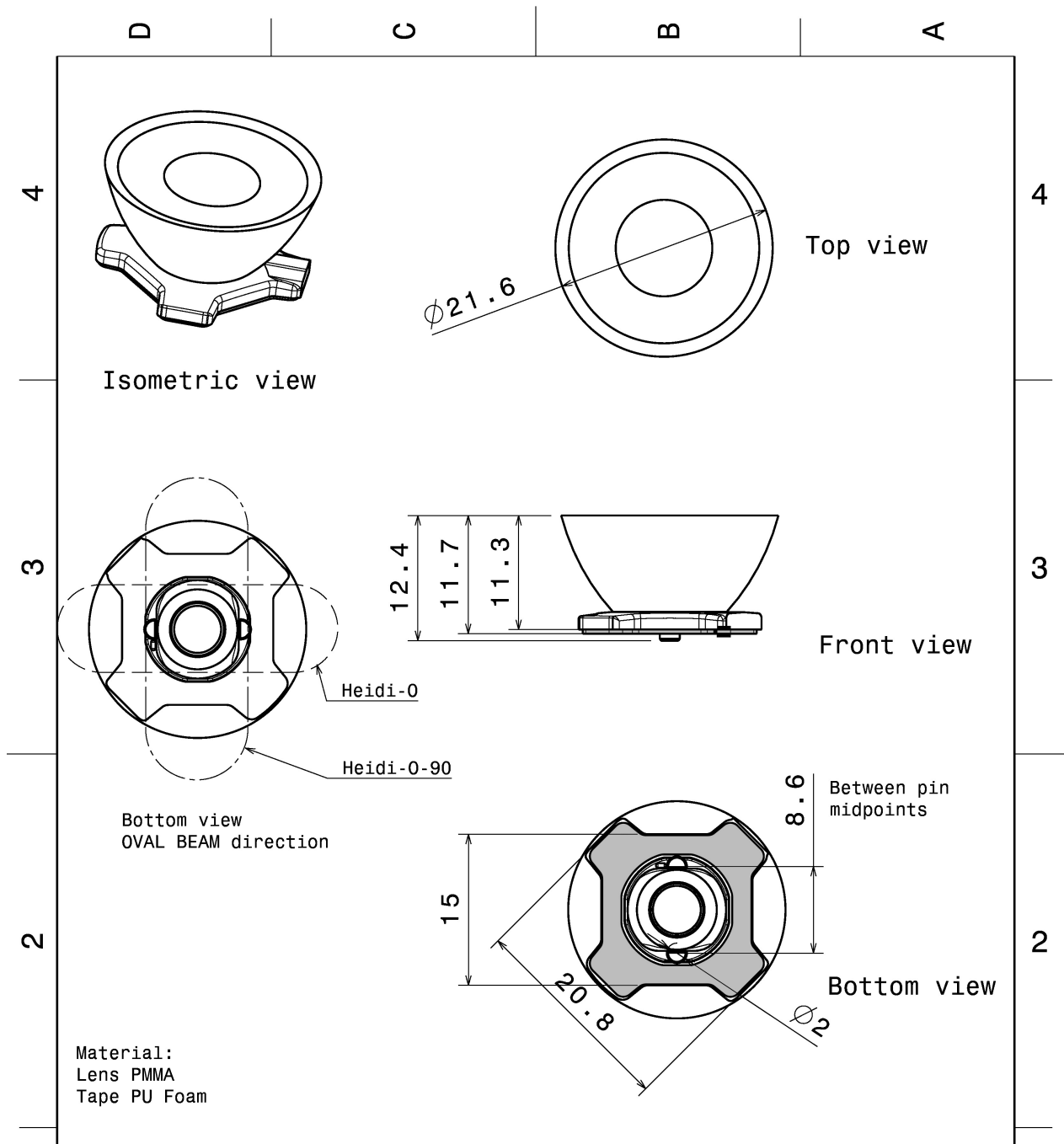
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	11.7 mm
Fastening	tape, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	11.1 kg
Quantity in Box	3264 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
HEIDI-SS	Single lens	PMMA	
HEIDI-TAPE	Tape	PU tape	black

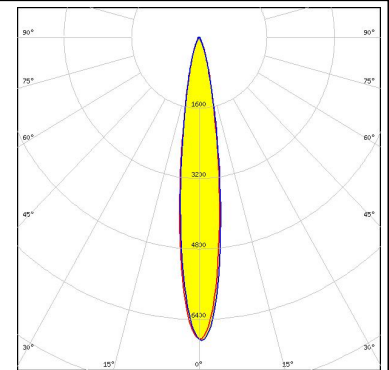
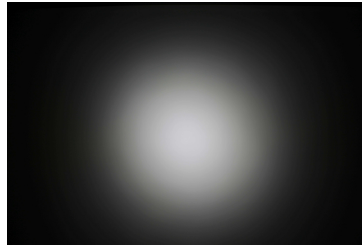


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DRAWN BY ah		DATE 1.2.2012		DRAWING TITLE Datasheet Heidi-Series Ass'y	
CHECKED BY	DATE	SIZE A4	DRAWING NUMBER		REV 2
DESIGNED BY	DATE	SCALE 2:1	WEIGHT (g)	SHEET 1/1	

#### PHOTOMETRIC DATA (MEASURED):



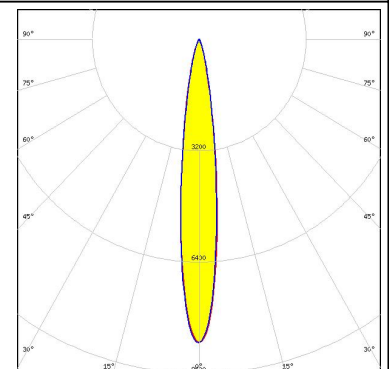
LED XP-G3  
 FWHM 16.0°  
 Efficiency 94 %  
 Peak intensity 6.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON R  
 FWHM 16.0°  
 Efficiency 91 %  
 Peak intensity 6.260 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Rebel  
 FWHM 14.0°  
 Efficiency 89 %  
 Peak intensity 8.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



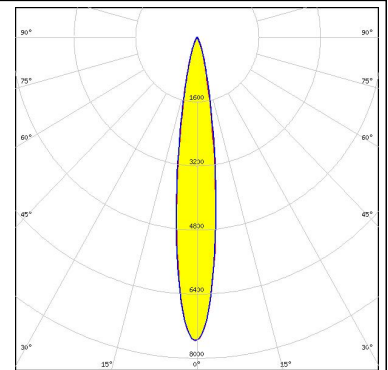
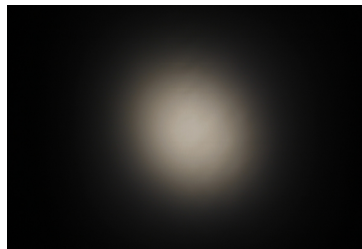
LED LUXEON Rebel ES  
 FWHM 14.0°  
 Efficiency 91 %  
 Peak intensity 6.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



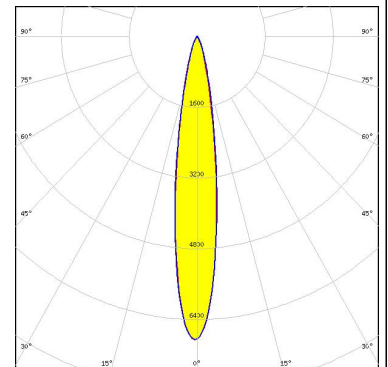
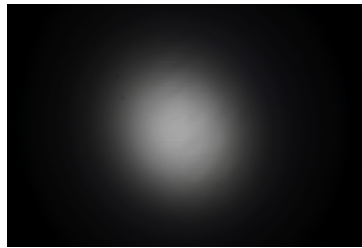
#### PHOTOMETRIC DATA (MEASURED):



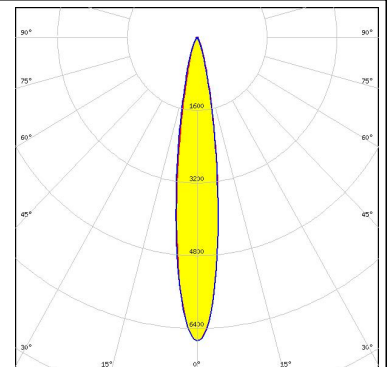
LED NVSW219D  
 FWHM 15.0°  
 Efficiency 94 %  
 Peak intensity 7.600 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



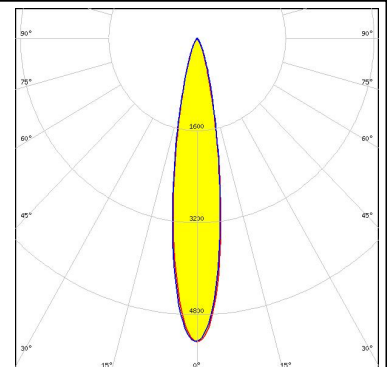
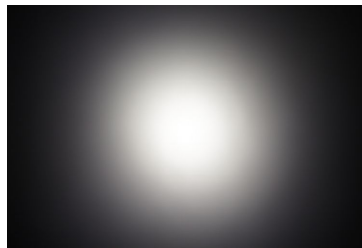
LED NVSW319B  
 FWHM 16.0°  
 Efficiency 94 %  
 Peak intensity 6.900 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



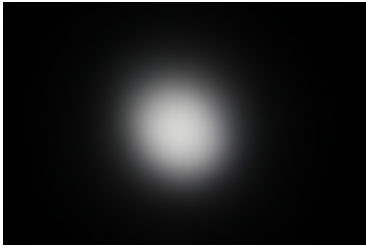
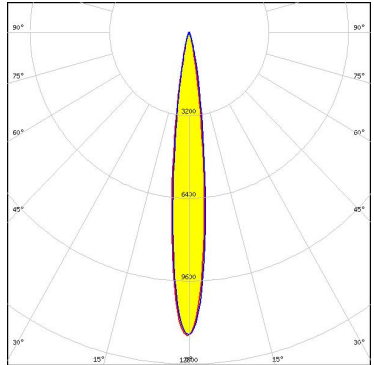

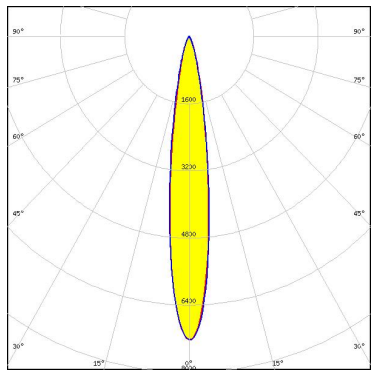

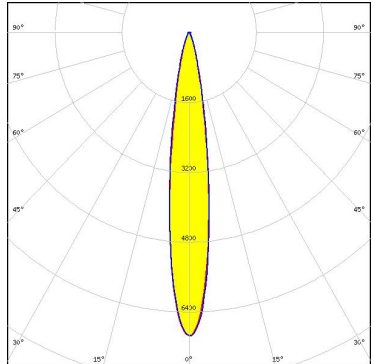
LED NVSW3x9A  
 FWHM 16.0°  
 Efficiency 92 %  
 Peak intensity 6.700 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NWSx229A  
 FWHM 18.0°  
 Efficiency 86 %  
 Peak intensity 5.300 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



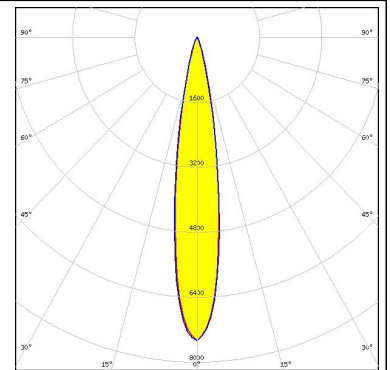
**PHOTOMETRIC DATA (MEASURED):**

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON SSL 150 FWHM 12.0° Efficiency 91 % Peak intensity 11.700 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z5M3 FWHM 15.0° Efficiency 94 % Peak intensity 7.200 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P FWHM 15.0° Efficiency 94 % Peak intensity 6.900 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

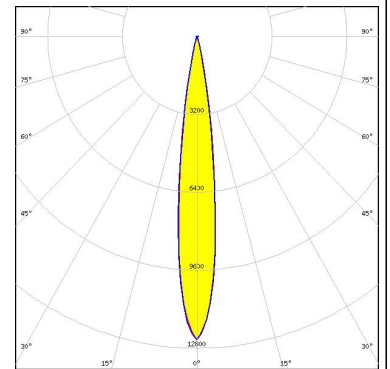
#### PHOTOMETRIC DATA (SIMULATED):



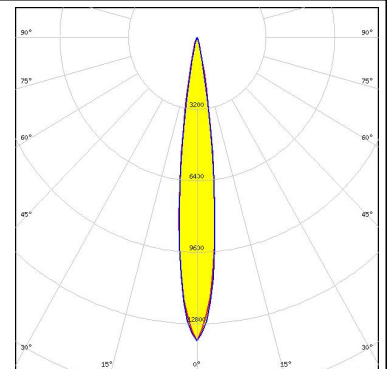
LED XP-G2 HE  
 FWHM 17.0°  
 Efficiency 94 %  
 Peak intensity 7.478 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



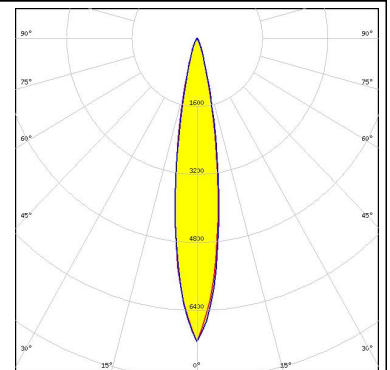
LED LUXEON SunPlus 20 Line (150 deg)  
 FWHM 14.0°  
 Efficiency 93 %  
 Peak intensity 12.460 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



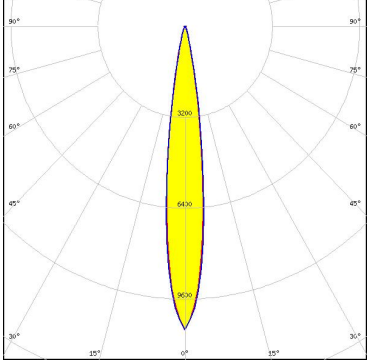
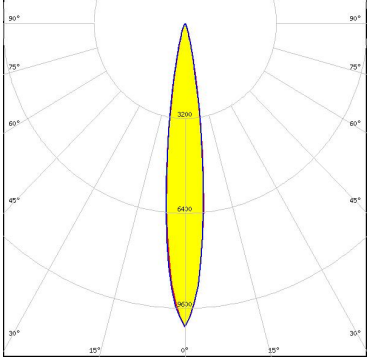
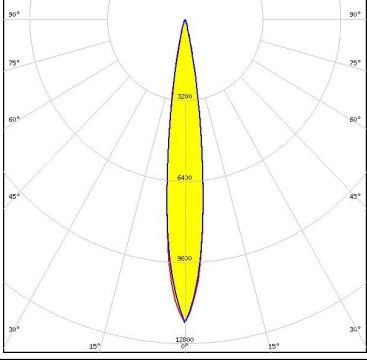
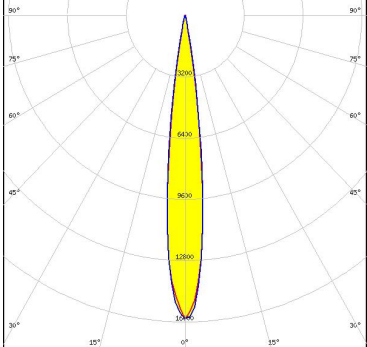
LED LUXEON SunPlus 35 Line  
 FWHM 14.0°  
 Efficiency 94 %  
 Peak intensity 13.560 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NV4WB35AM  
 FWHM 17.0°  
 Efficiency 96 %  
 Peak intensity 7.142 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM 14.0°            Efficiency 94 %            Peak intensity 11.164 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSCONIQ P 3737 Flat            FWHM 14.0°            Efficiency 96 %            Peak intensity 10.229 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON Black            FWHM 14.0°            Efficiency 94 %            Peak intensity 12.000 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON Black Flat            FWHM 13.0°            Efficiency 94 %            Peak intensity 15.800 cd/lm            LEDs/each optic 1            Light colour White            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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