

## HB-SQ-A

~50° wide beam

### SPECIFICATION:

Dimensions	25.0 x 25.0 mm
Height	12.9 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ

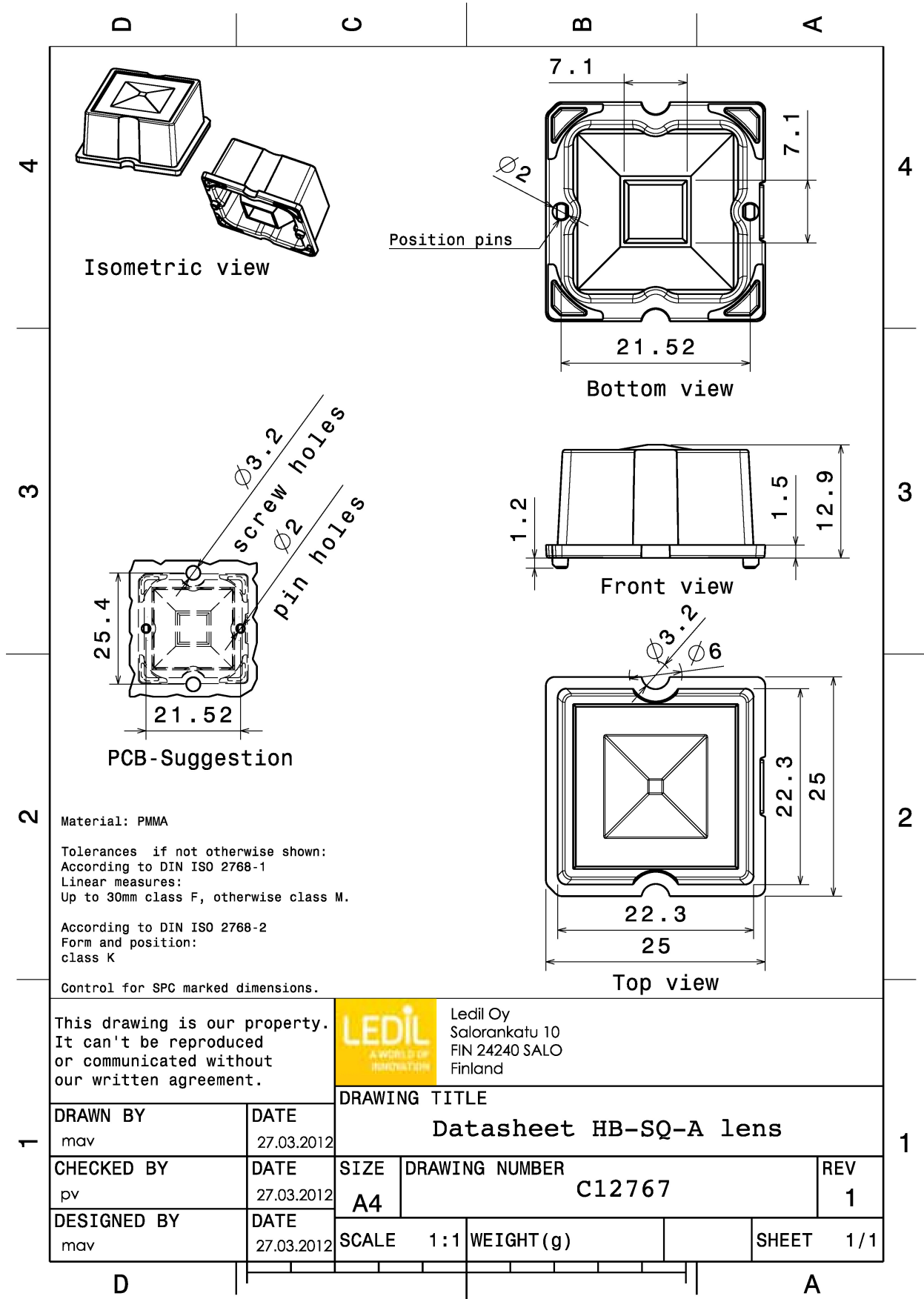
### MATERIALS:

Component	Type	Material	Colour	Finish	Length
HB-SQ-A	Single lens	PMMA	clear		25.0

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12767_HB-SQ-A » Box size: 480 x 280 x 300 mm	1960	294	98	10.7



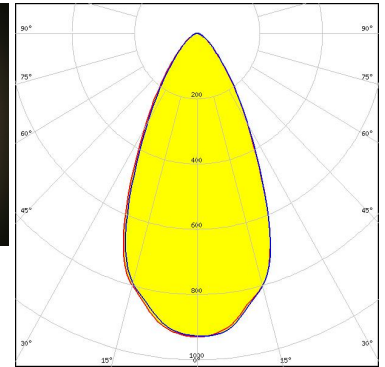


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



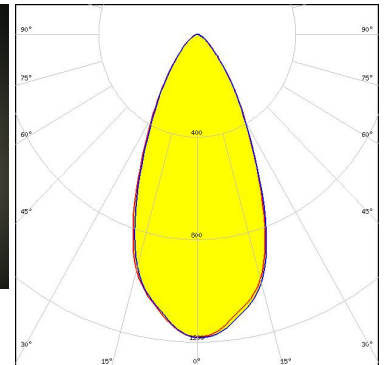
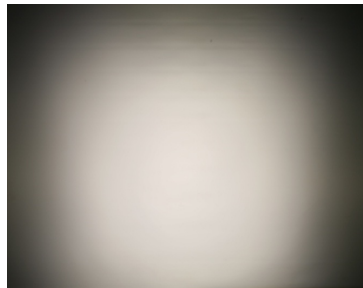
**LED** MK-R  
**FWHM / FWTM** 54.0° / 88.0°  
**Efficiency** 86 %  
**Peak intensity** 1 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



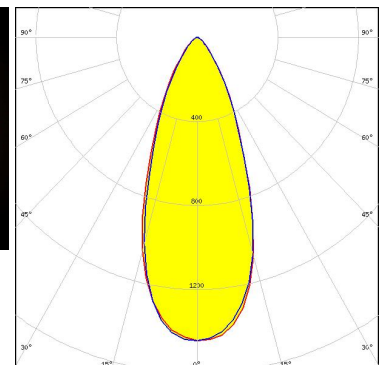
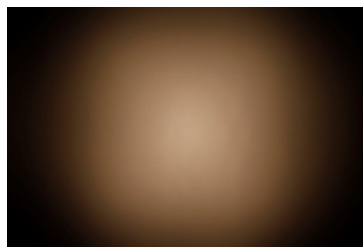
**LED** LUXEON M/MX  
**FWHM / FWTM** 50.0° / 84.0°  
**Efficiency** 91 %  
**Peak intensity** 1.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** LUXEON MZ  
**FWHM / FWTM** 42.0° / 74.0°  
**Efficiency** 87 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

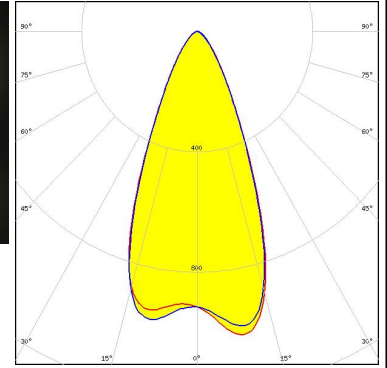
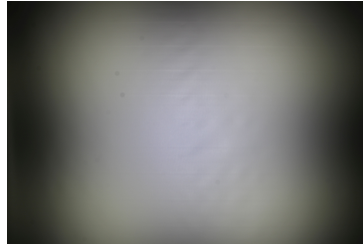


Light distribution files

### OPTICAL RESULTS (MEASURED):



LED NVSW319B  
FWHM / FWTM 45.0° / 77.0°  
Efficiency 83 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

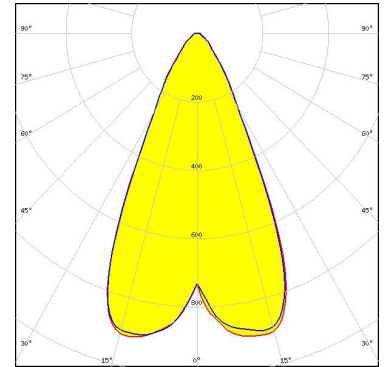


Light distribution files

### OPTICAL RESULTS (SIMULATED):



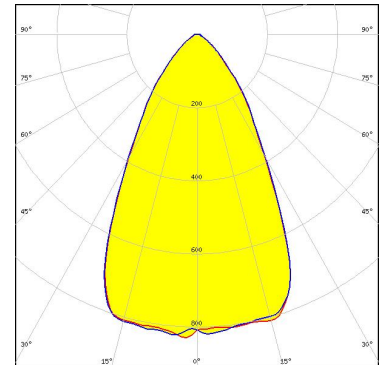
LED XHP50.3 HD  
 FWHM / FWTM 51.0° / 82.0°  
 Efficiency 97 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



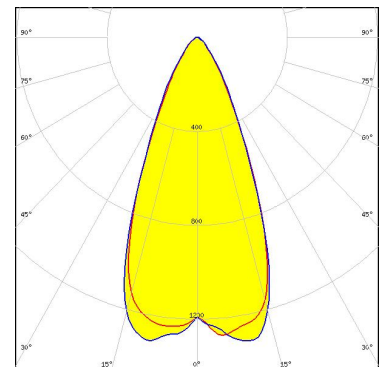
LED XHP70.3 HD  
 FWHM / FWTM 58.0° / 98.0°  
 Efficiency 96 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON 5050 Round LES  
 FWHM / FWTM 46.0° / 77.0°  
 Efficiency 96 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

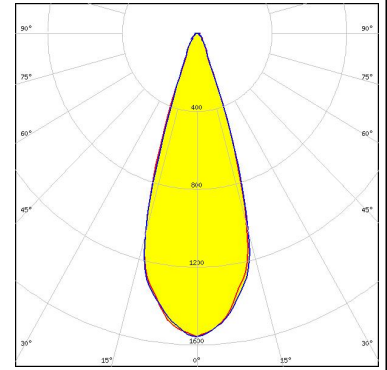


Light distribution files

### OPTICAL RESULTS (SIMULATED):



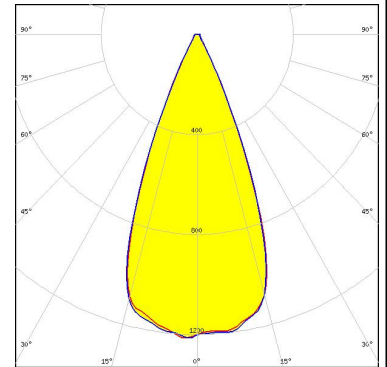
LED SST-20  
FWHM / FWTM 34.0° / 50.0°  
Efficiency 97 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



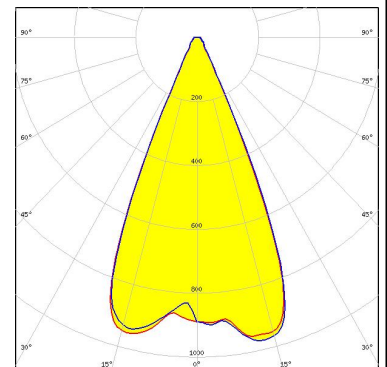
LED NVSW219D  
FWHM / FWTM 44.0° / 60.0°  
Efficiency 96 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files




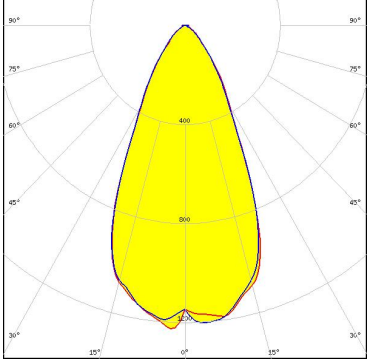
LED NVSW519A  
FWHM / FWTM 48.0° / 62.0°  
Efficiency 96 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:




Light distribution files

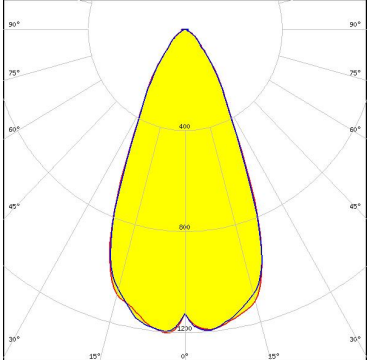
### OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	Z8Y50P
FWHM / FWTM	50.0° / 86.0°
Efficiency	96 %
Peak intensity	1.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

 SEOUL SEMICONDUCTOR	
LED	Z8Y50P
FWHM / FWTM	50.0° / 85.0°
Efficiency	96 %
Peak intensity	1.2 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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