


## HB-IP-2X6-WWW

~100° wide beam

### TECHNICAL SPECIFICATIONS:

Dimensions	71.4 x 173.0 mm
Height	11.4 mm
Fastening	screw
ROHS compliant	yes 

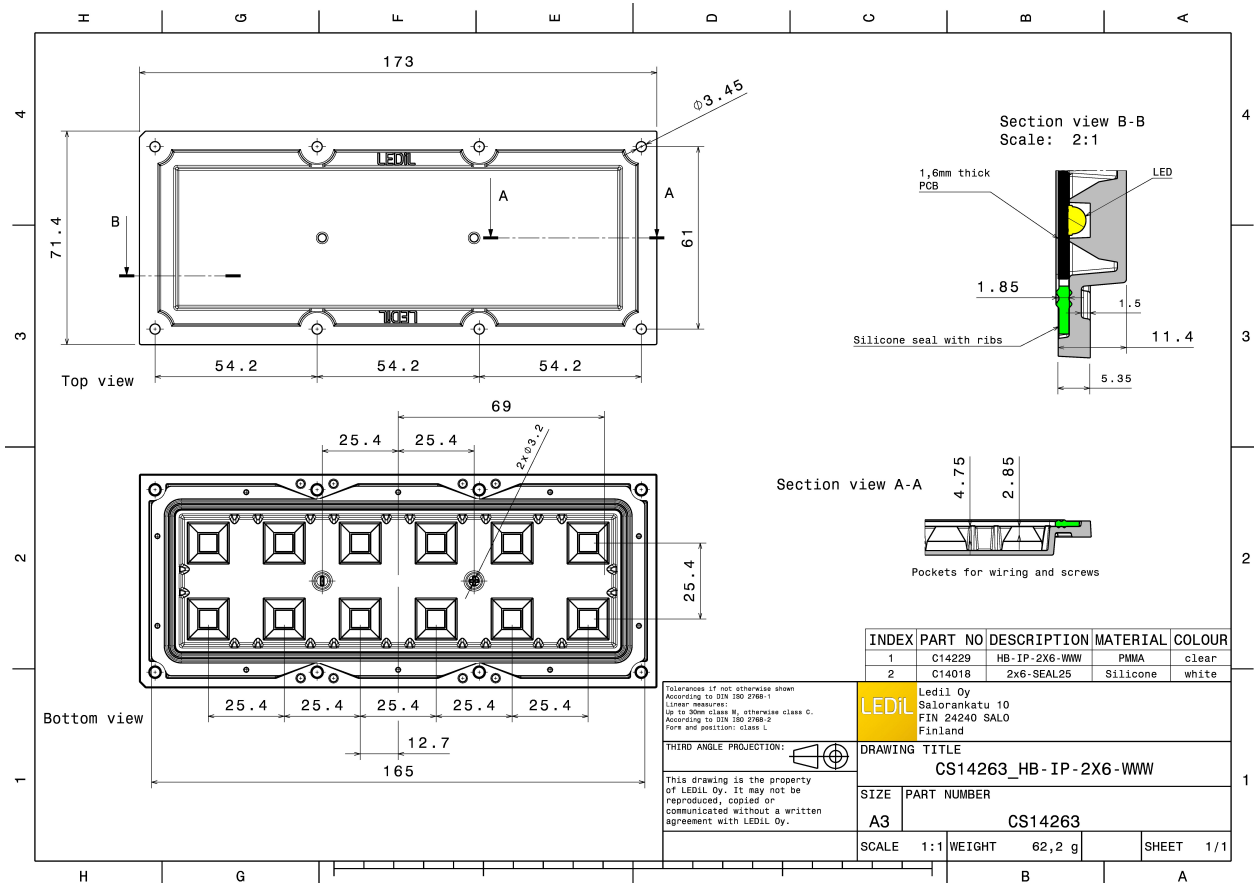
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
HB-IP-2X6-WWW	Multi-lens	PMMA		
2X6-SEAL25	Seal	Silicone		



### ORDERING INFORMATION:

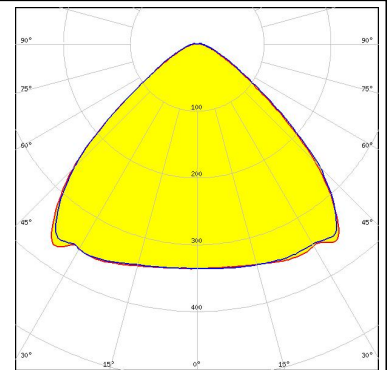
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14263_HB-IP-2X6-WWW	Multi-lens	120	40	40	8.3
» Box size: 476 x 273 x 247 mm					



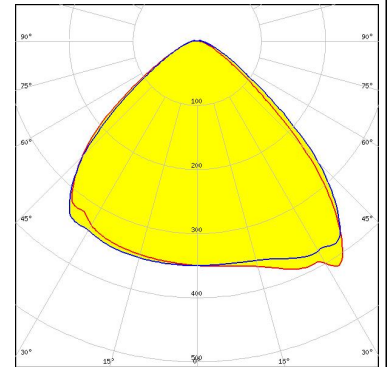
### PHOTOMETRIC DATA (MEASURED):



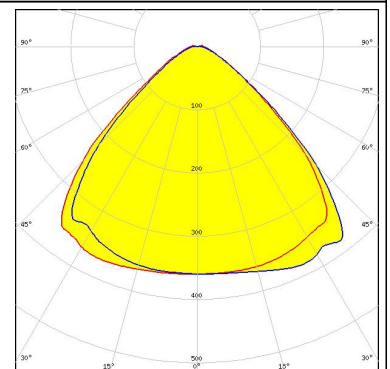
LED QUICK FLUX 2x6 LED XG xxx G7+  
 FWHM 100.0°  
 Efficiency 94 %  
 Peak intensity 0.370 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



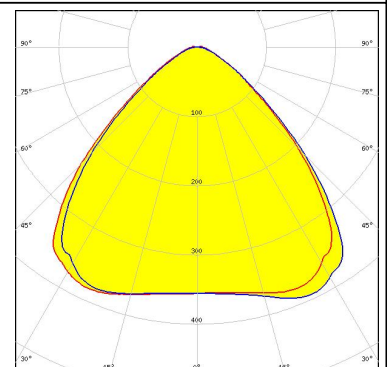
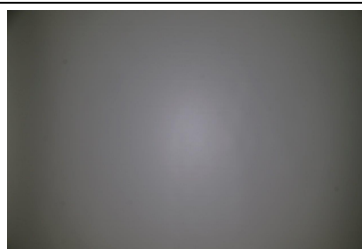
LED QUICK FLUX 2x6 LED XT xxx G5  
 FWHM 96.0°  
 Efficiency 94 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XM-L2  
 FWHM 97.0°  
 Efficiency 93 %  
 Peak intensity 0.380 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



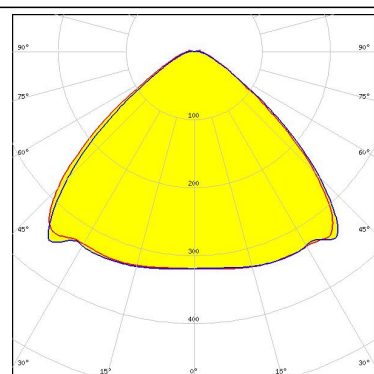
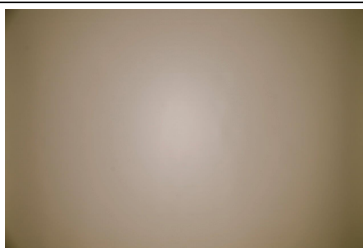
LED XP-G2  
 FWHM 95.0°  
 Efficiency 93 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



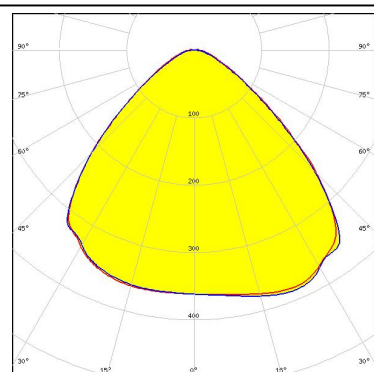
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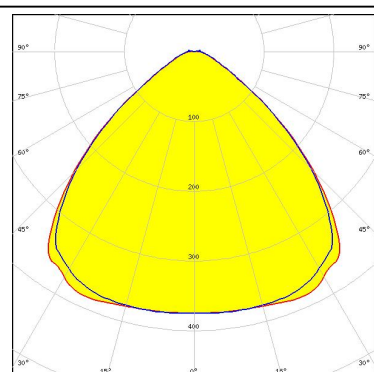
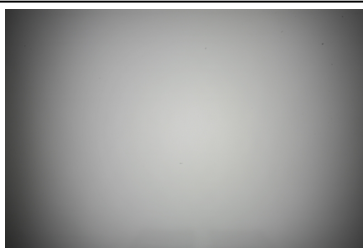
LED XP-L HD  
FWHM 103.0°  
Efficiency 92 %  
Peak intensity 0.350 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



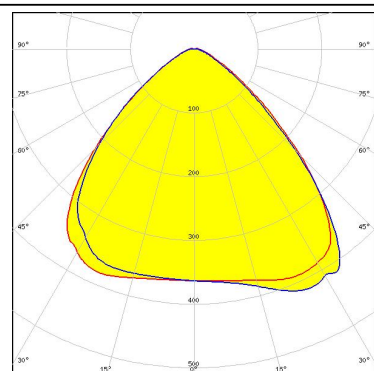
LED XP-L2  
FWHM 96.0°  
Efficiency 94 %  
Peak intensity 0.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XT-E  
FWHM 98.0°  
Efficiency 94 %  
Peak intensity 0.380 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XT-E HE  
FWHM 95.0°  
Efficiency 94 %  
Peak intensity 0.420 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

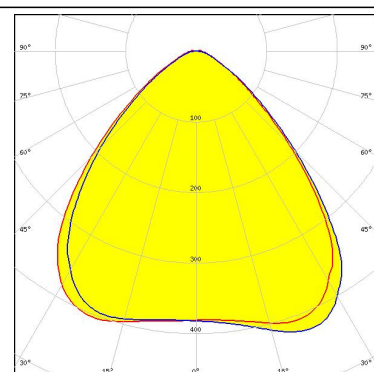
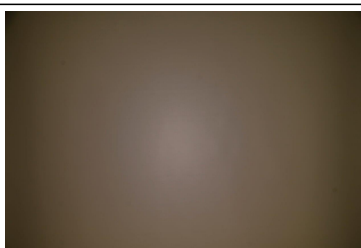




### PHOTOMETRIC DATA (MEASURED):

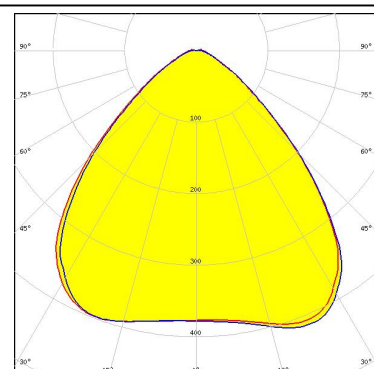
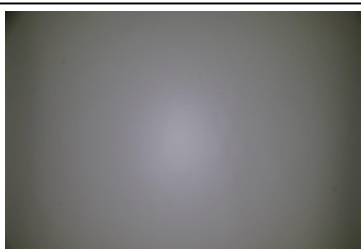
#### LUMILEDS

LED LUXEON T  
FWHM 91.0°  
Efficiency 93 %  
Peak intensity 0.440 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



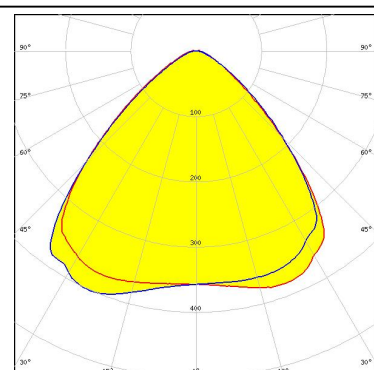
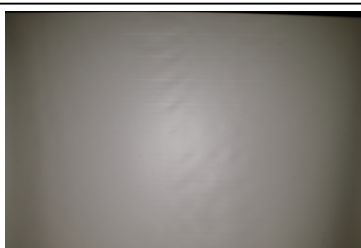
#### LUMILEDS

LED LUXEON TX  
FWHM 95.0°  
Efficiency 93 %  
Peak intensity 0.430 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



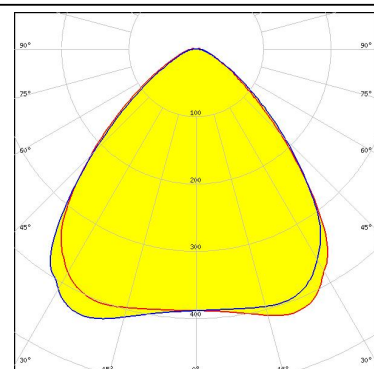
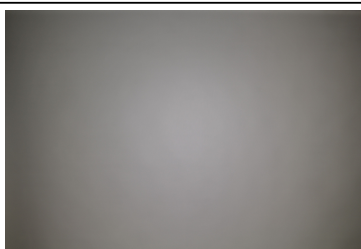
#### LUMILEDS

LED LUXEON V  
FWHM 94.0°  
Efficiency 92 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### LUMILEDS

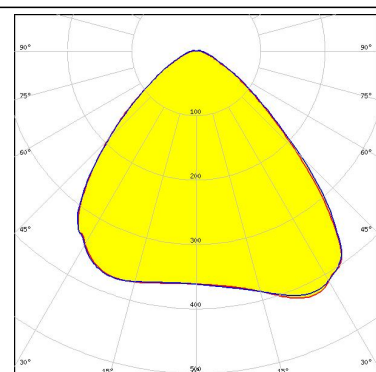
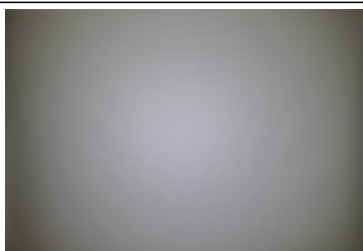
LED LUXEON V2  
FWHM 91.0°  
Efficiency 94 %  
Peak intensity 0.430 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



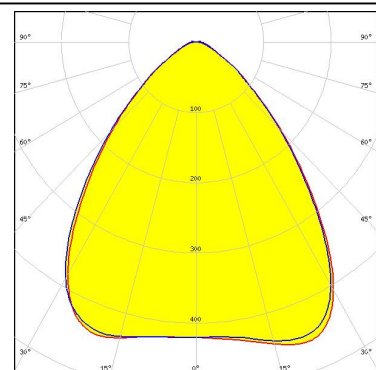
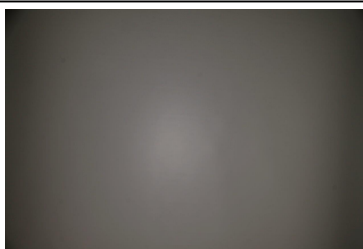
### PHOTOMETRIC DATA (MEASURED):



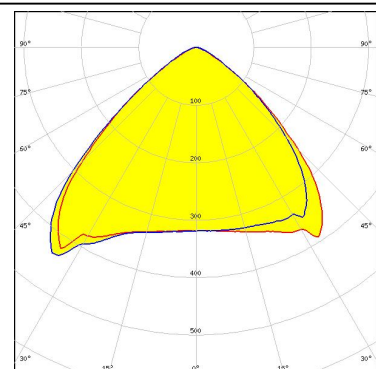
LED LUXEON XR-TX (L2T0-xyy012M)  
 FWHM 97.0°  
 Efficiency 93 %  
 Peak intensity 0.430 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



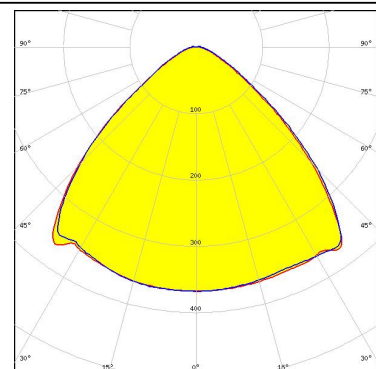
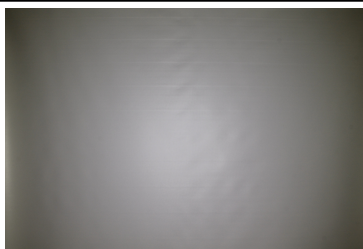
LED LUXEON Z ES  
 FWHM 85.0°  
 Efficiency 93 %  
 Peak intensity 0.470 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED SST-10-B130  
 FWHM 96.0°  
 Efficiency 95 %  
 Peak intensity 0.436 cd/lm  
 LEDs/each optic 1  
 Light colour Deep Red  
 Required components:



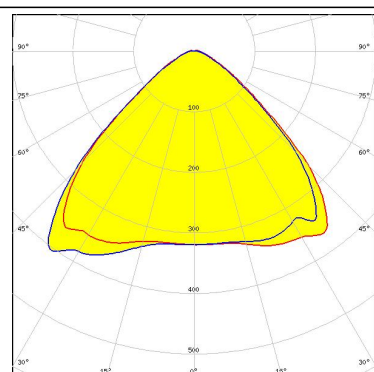
LED NVSW219D  
 FWHM 98.0°  
 Efficiency 93 %  
 Peak intensity 0.370 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



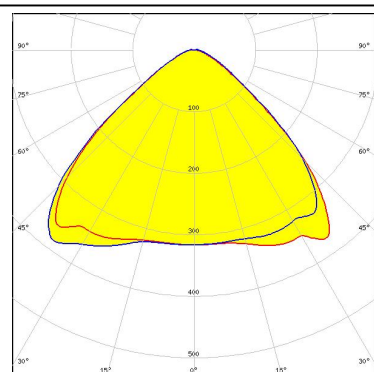
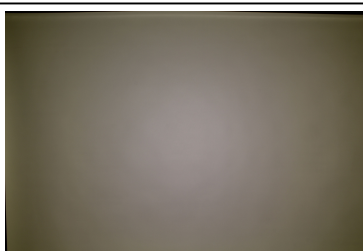
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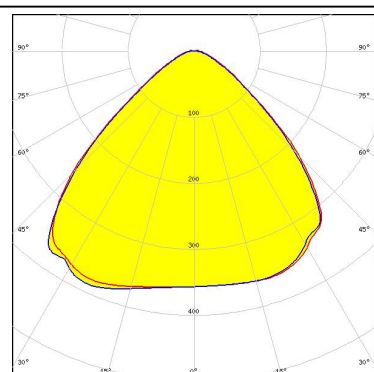
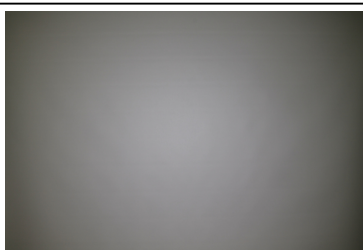
LED NVSW219F  
FWHM 101.0°  
Efficiency 94 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



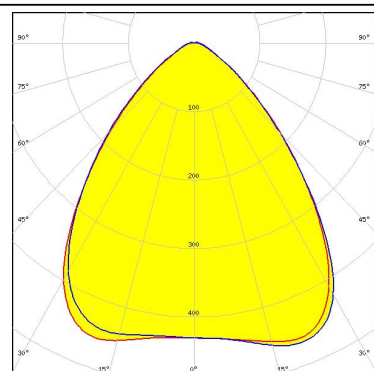
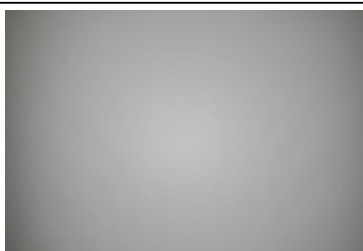
LED NVSW319B  
FWHM 103.0°  
Efficiency 94 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSW3x9A  
FWHM 97.0°  
Efficiency 93 %  
Peak intensity 0.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



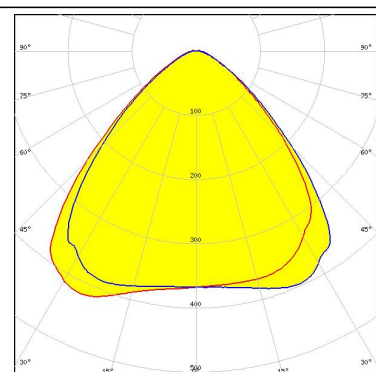
LED NVSxE21A  
FWHM 84.0°  
Efficiency 94 %  
Peak intensity 0.480 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



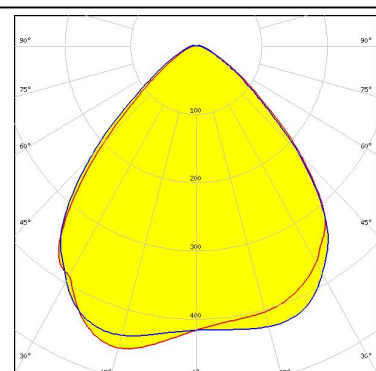
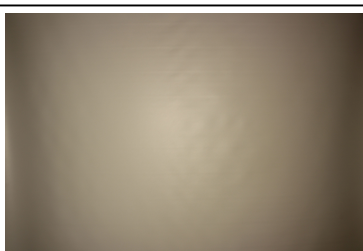
### PHOTOMETRIC DATA (MEASURED):



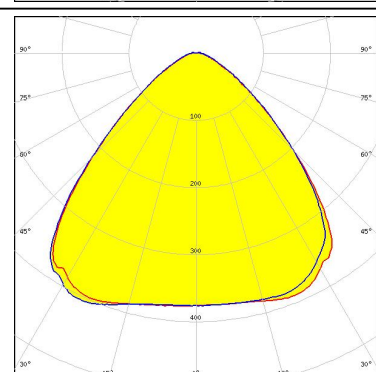
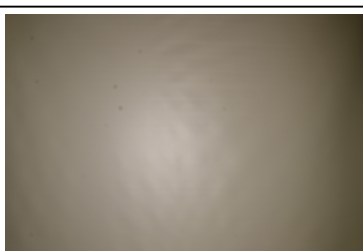
LED NVSxx19B/NVSxx19C  
 FWHM 90.0°  
 Efficiency 94 %  
 Peak intensity 0.420 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



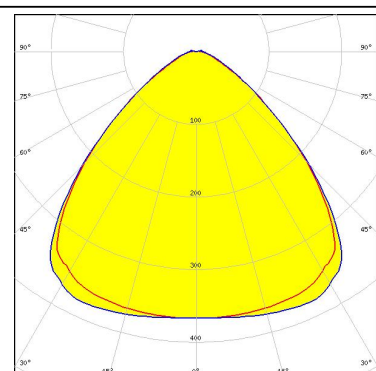
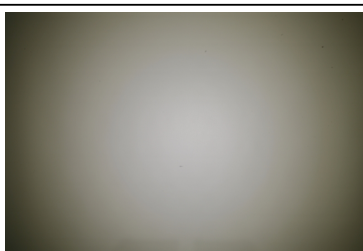
LED Duris S8  
 FWHM 90.0°  
 Efficiency 94 %  
 Peak intensity 0.467 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM Square CSSRM2/CSSRM3  
 FWHM 97.0°  
 Efficiency 94 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM Square PC  
 FWHM 95.0°  
 Efficiency 92 %  
 Peak intensity 0.380 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



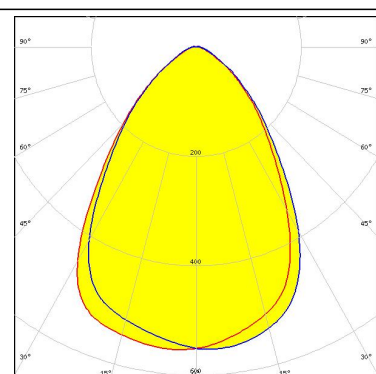
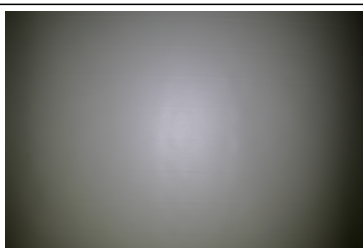


### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

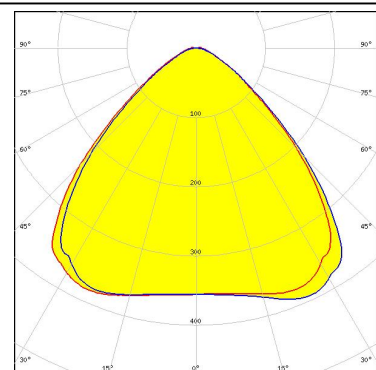
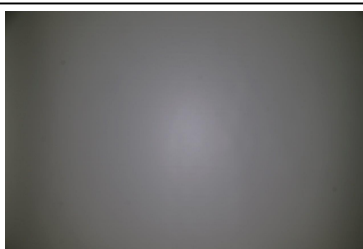
Opto Semiconductors

LED OSLON SSL 80  
FWHM 76.0°  
Efficiency 94 %  
Peak intensity 0.560 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



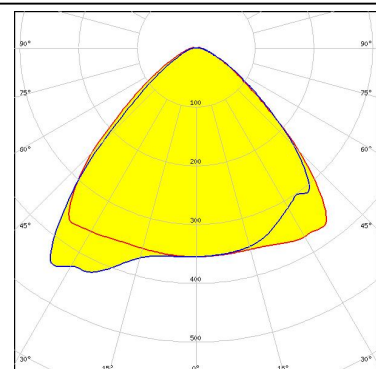
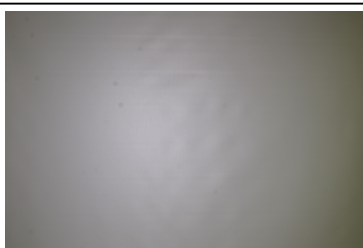
#### PHILIPS

LED Fortimo FastFlex LED 2x6 DP G4  
FWHM 95.0°  
Efficiency 93 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



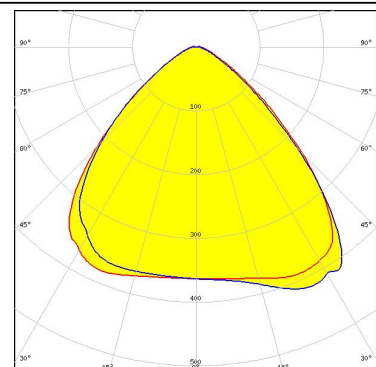
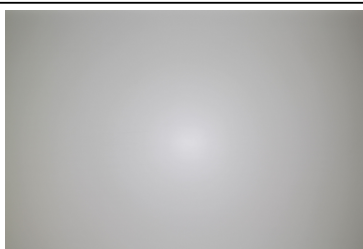
#### SAMSUNG

LED HiLOM RH12 (LH351C)  
FWHM 94.0°  
Efficiency 93 %  
Peak intensity 0.440 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SCIOLUX

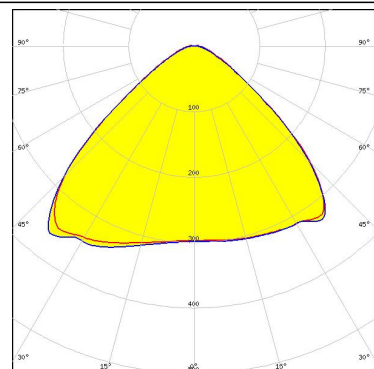
LED XLE-S22C4XTEHE (XT-E HE)  
FWHM 95.0°  
Efficiency 94 %  
Peak intensity 0.420 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



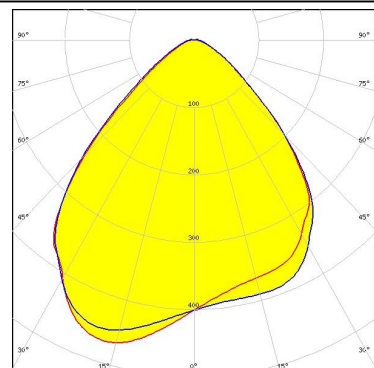
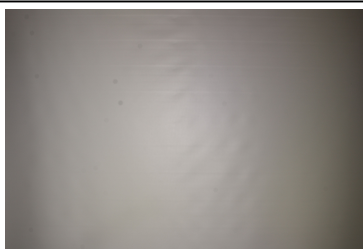
### PHOTOMETRIC DATA (MEASURED):



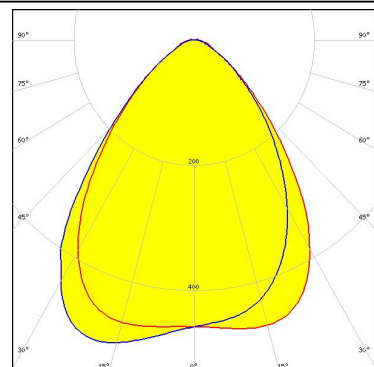
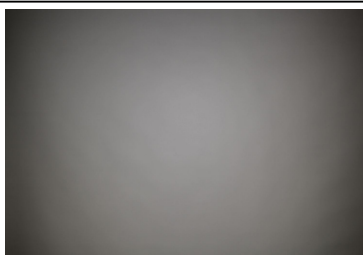
LED XLE-S26XHP35 (XHP35 HD)  
 FWHM 104.0°  
 Efficiency 93 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



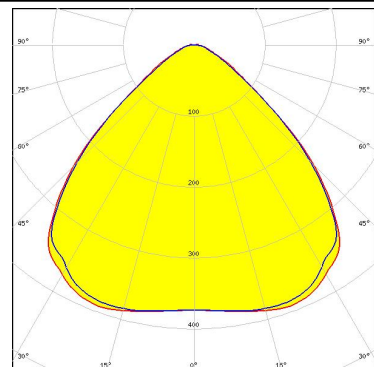
LED 2x6 5050 module - SMJD-3625012F-XX  
 FWHM 88.0°  
 Efficiency 94 %  
 Peak intensity 0.500 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED SMJQ-D36W12Mx  
 FWHM 79.0°  
 Efficiency 94 %  
 Peak intensity 0.510 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED SMJQ-D36W12Px  
 FWHM 96.0°  
 Efficiency 94 %  
 Peak intensity 0.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





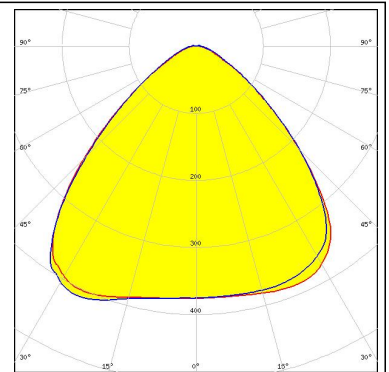
### PHOTOMETRIC DATA (MEASURED):

<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM 97.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 0.400 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM 93.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 0.420 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22</p> <p>FWHM 79.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.510 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P</p> <p>FWHM 92.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 0.420 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### PHOTOMETRIC DATA (MEASURED):

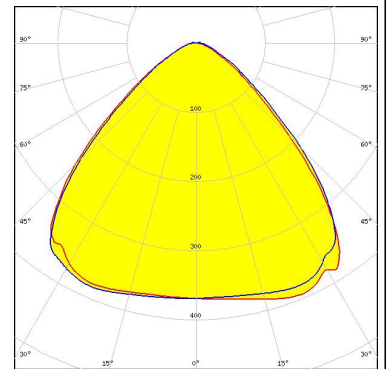
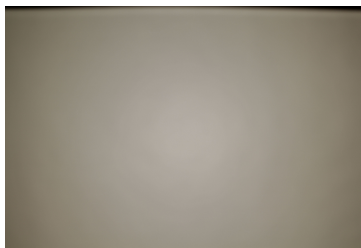
#### **TOSHIBA** Leading Innovation >>>

LED TL1L4  
FWHM 95.0°  
Efficiency 94 %  
Peak intensity 0.410 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### **TRIDONIC**

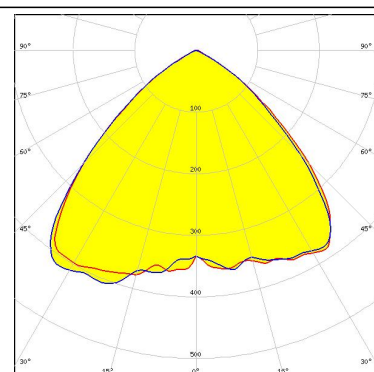
LED RLE 2x6 3000lm HP EXC2 OTD  
FWHM 94.0°  
Efficiency 94 %  
Peak intensity 0.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



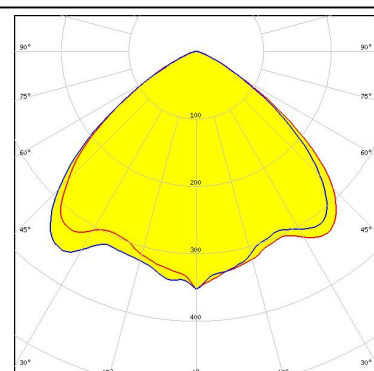
### PHOTOMETRIC DATA (SIMULATED):



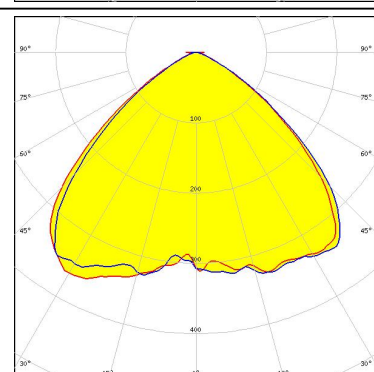
LED J Series 5050  
FWHM 98.0°  
Efficiency 94 %  
Peak intensity 0.420 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



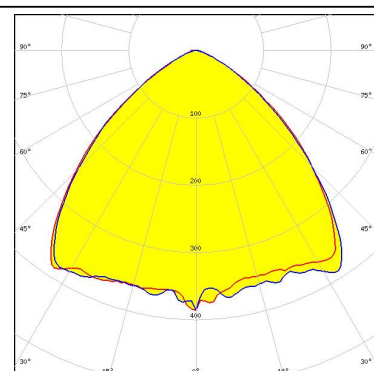
LED MHB-A/B  
FWHM 106.0°  
Efficiency 87 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XHP35 HD  
FWHM 101.0°  
Efficiency 91 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



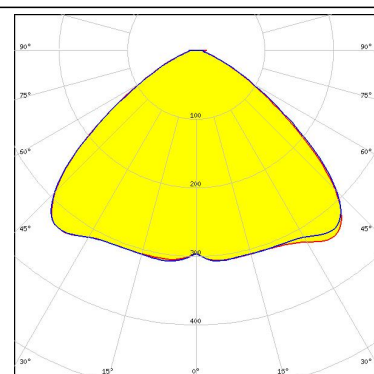
LED XP-E  
FWHM 99.0°  
Efficiency 94 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



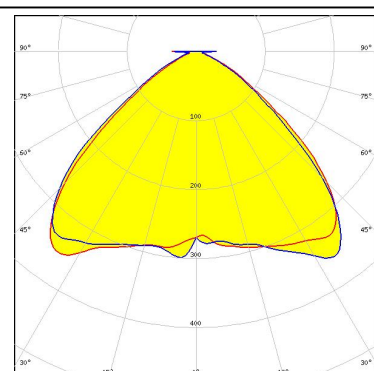
### PHOTOMETRIC DATA (SIMULATED):



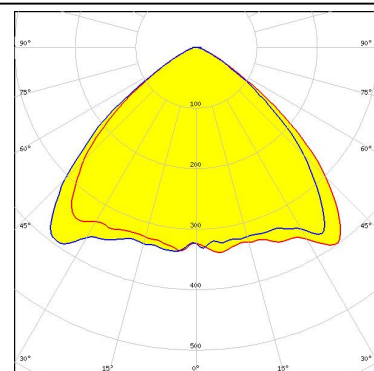
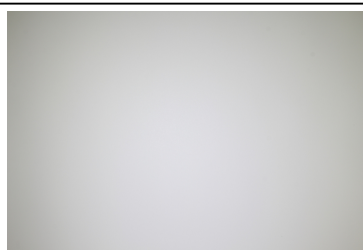
LED XP-G2 HE  
FWHM 108.0°  
Efficiency 93 %  
Peak intensity 0.337 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G3  
FWHM 95.0°  
Efficiency 91 %  
Peak intensity 0.360 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

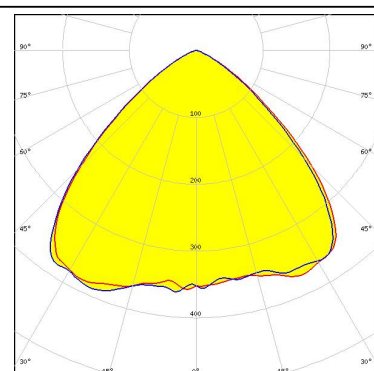


LED H35C1 (LEMWA33)  
FWHM 101.0°  
Efficiency 94 %  
Peak intensity 0.400 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 5050 Round LES  
FWHM 98.0°  
Efficiency 90 %  
Peak intensity 0.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

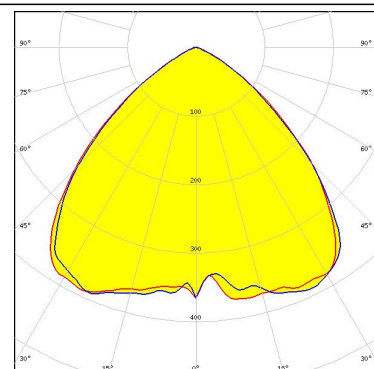
Transparent protective cover



### PHOTOMETRIC DATA (SIMULATED):



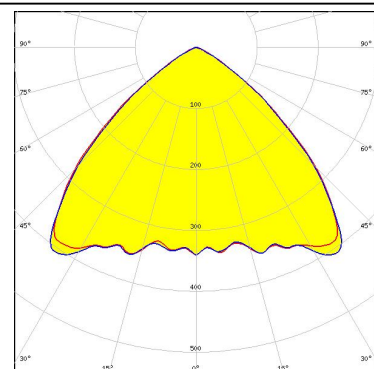
LED LUXEON 5050 Round LES  
 FWHM 92.0°  
 Efficiency 93 %  
 Peak intensity 0.390 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



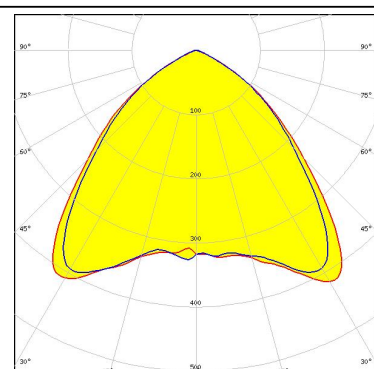
LED LUXEON 5050 Square LES  
 FWHM 90.0°  
 Efficiency 96 %  
 Peak intensity 0.454 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NV4WB35AM  
 FWHM 98.0°  
 Efficiency 96 %  
 Peak intensity 0.409 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSCONIQ P 3030  
 FWHM 94.0°  
 Efficiency 96 %  
 Peak intensity 0.436 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

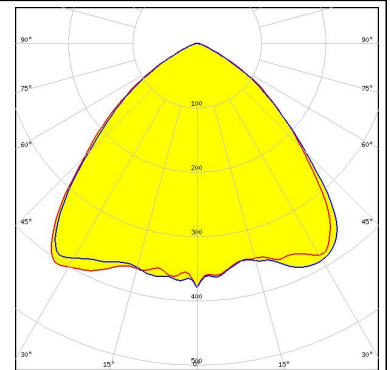


### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

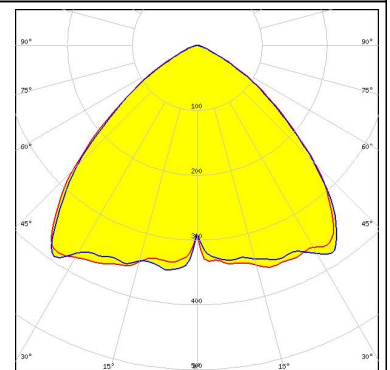
LED OSCONIQ P 3737 (2W version)  
 FWHM 95.0°  
 Efficiency 94 %  
 Peak intensity 0.410 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

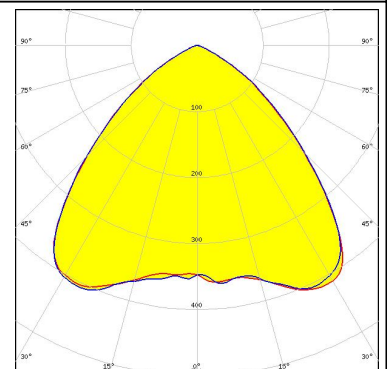
LED OSCONIQ P 3737 (3W version)  
 FWHM 98.0°  
 Efficiency 94 %  
 Peak intensity 0.390 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

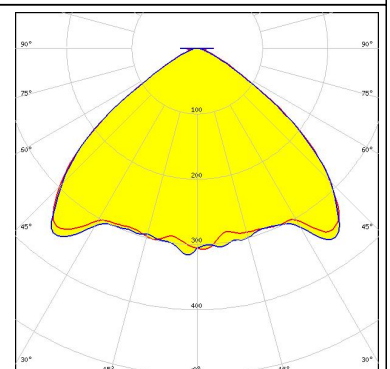
Opto Semiconductors

LED OSCONIQ P 3737 Flat  
 FWHM 94.0°  
 Efficiency 96 %  
 Peak intensity 0.421 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHILIPS

LED Fortimo FastFlex LED 2x6 DPX G4  
 FWHM 105.0°  
 Efficiency 94 %  
 Peak intensity 0.360 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

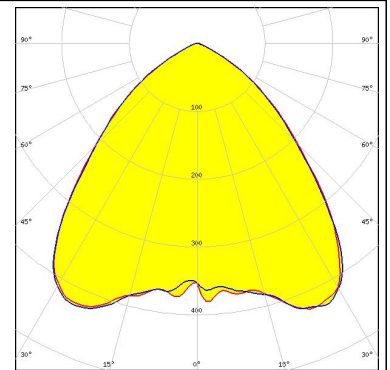




### PHOTOMETRIC DATA (SIMULATED):

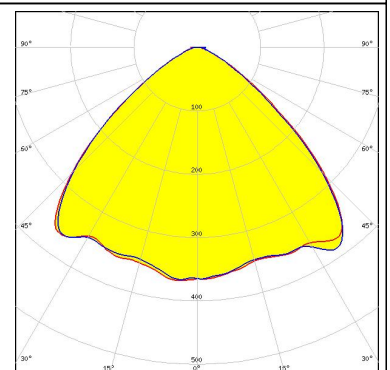
#### SAMSUNG

LED LH181B  
FWHM 90.0°  
Efficiency 96 %  
Peak intensity 0.448 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



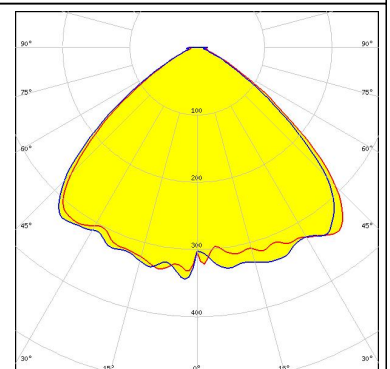
#### SAMSUNG

LED LH351B  
FWHM 100.0°  
Efficiency 94 %  
Peak intensity 0.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



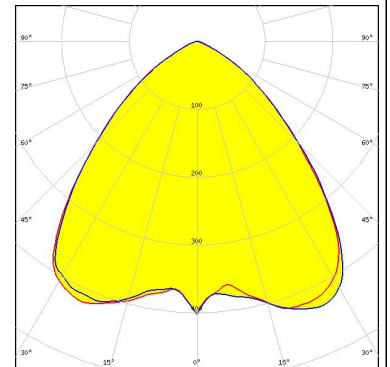
#### SAMSUNG

LED LH351D  
FWHM 107.0°  
Efficiency 92 %  
Peak intensity 0.350 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

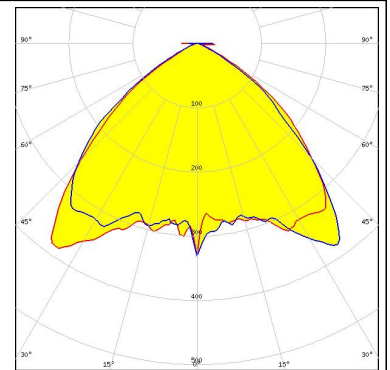
LED Z8Y22T  
FWHM 93.0°  
Efficiency 94 %  
Peak intensity 0.450 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (SIMULATED):

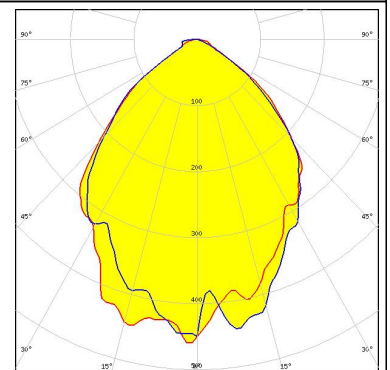
#### **TOSHIBA** Leading Innovation >>>

LED TL1L2  
FWHM 100.0°  
Efficiency 91 %  
Peak intensity 0.390 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### **TOSHIBA** Leading Innovation >>>

LED TL1L3  
FWHM Asymmetric  
Efficiency 84 %  
Peak intensity 0.490 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### 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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