

## STRADA-2X2-CAT

Catenary street light beam optimized for EN13201 M-classes

### TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	6.2 mm
Fastening	glue, pin, screw
ROHS compliant	yes ⓘ

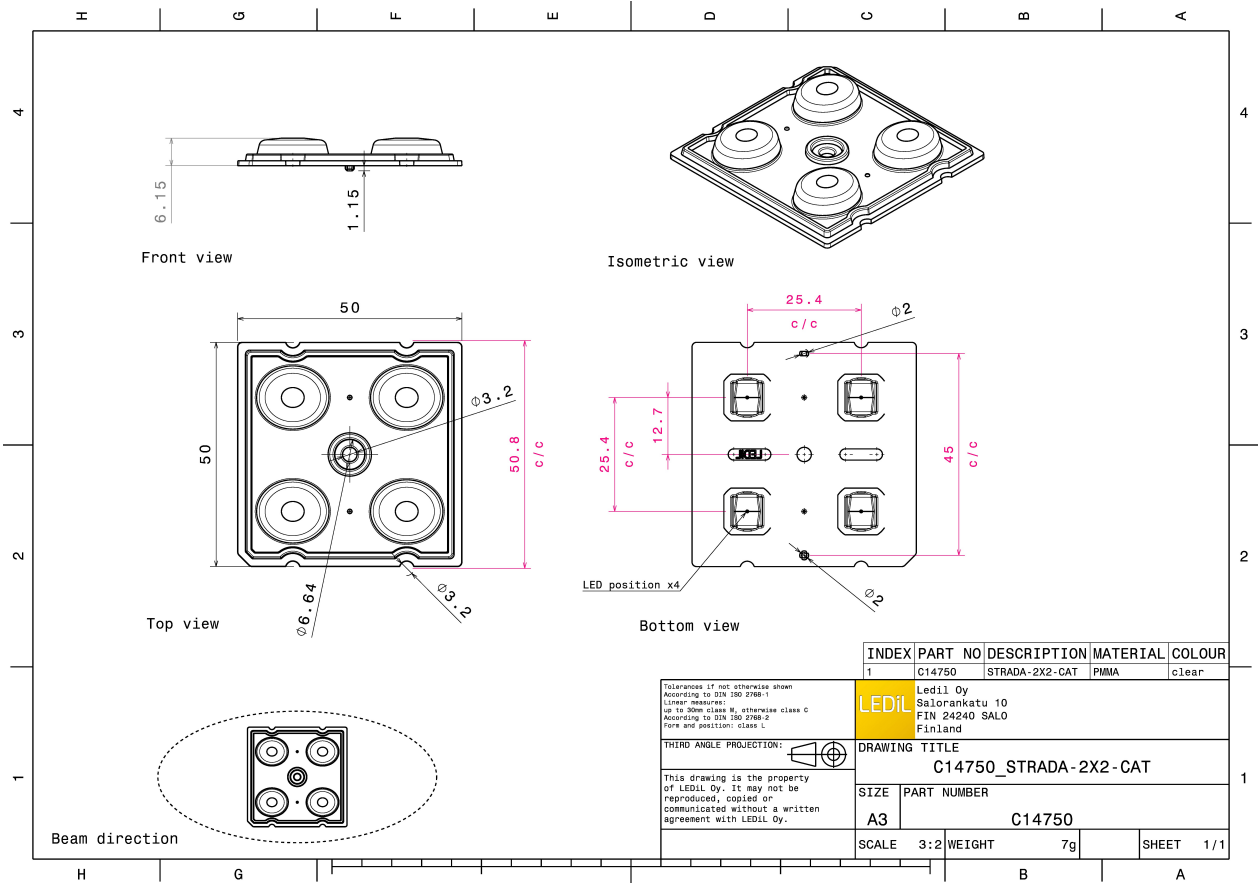
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
STRADA-2X2-CAT	Multi-lens	PMMA	clear	



### ORDERING INFORMATION:

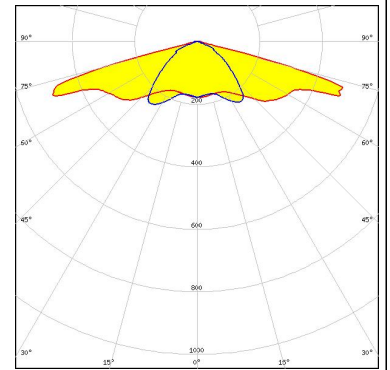
Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14750_STRADA-2X2-CAT » Box size: 480 x 280 x 300 mm	800	160	160	6.3



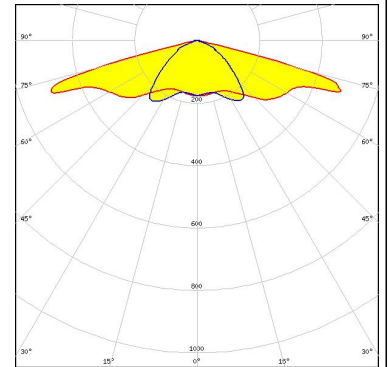
#### PHOTOMETRIC DATA (MEASURED):



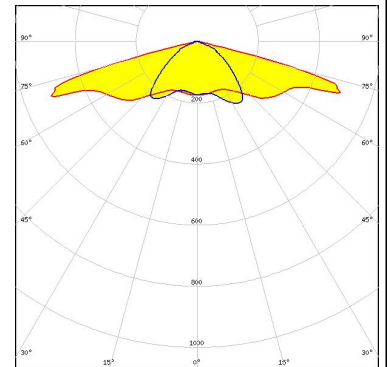
**LED** QUICK FLUX XTP 2x4 xxx LS G5  
**FWHM** 152.0 + 117.0°  
**Efficiency** 94 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



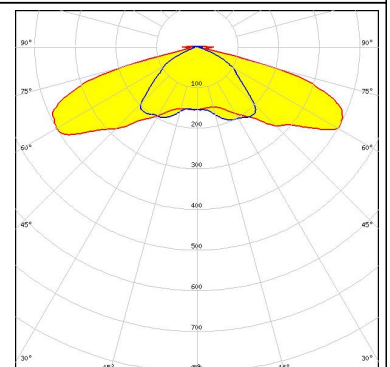
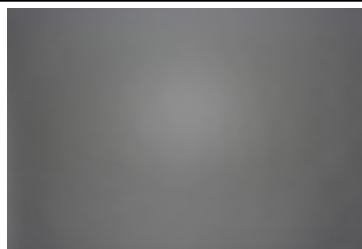
**LED** QUICK FLUX XTP 2x6 xxx LS G5  
**FWHM** 153.0 + 118.0°  
**Efficiency** 94 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** QUICK FLUX XTP 2x8 xxx LS G5  
**FWHM** 152.0 + 118.0°  
**Efficiency** 94 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



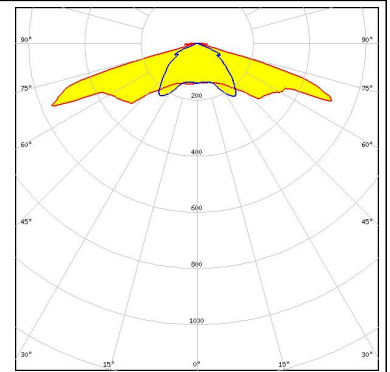
**LED** XD16  
**FWHM** 150.0 + 126.0°  
**Efficiency** 94 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 4  
**Light colour** White  
**Required components:**



#### PHOTOMETRIC DATA (MEASURED):

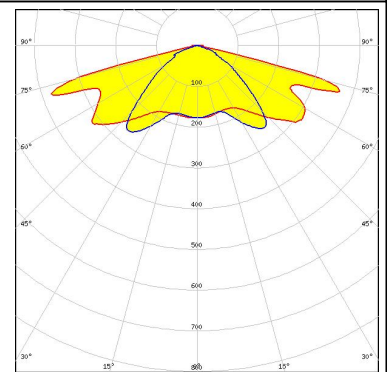
#### CREE

LED XD16  
 FWHM 148.0 + 133.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



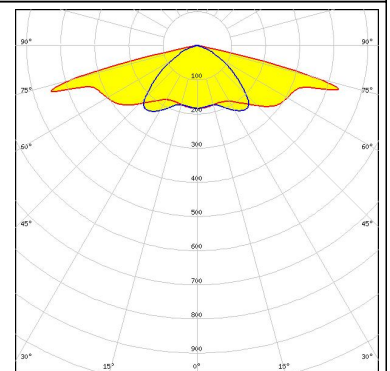
#### CREE

LED XP-G2  
 FWHM 153.0 + 118.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



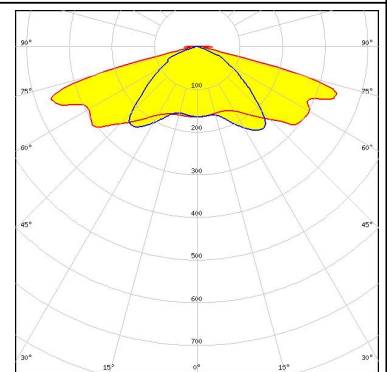
#### CREE

LED XP-G2 HE  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

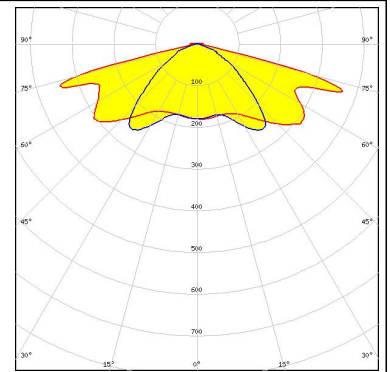
LED XP-G3  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



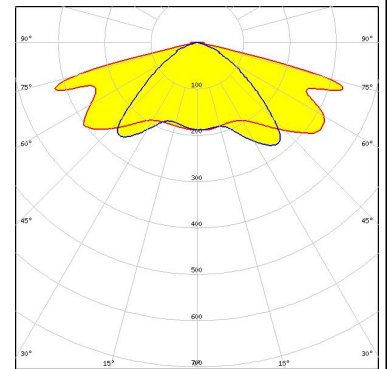
#### PHOTOMETRIC DATA (MEASURED):



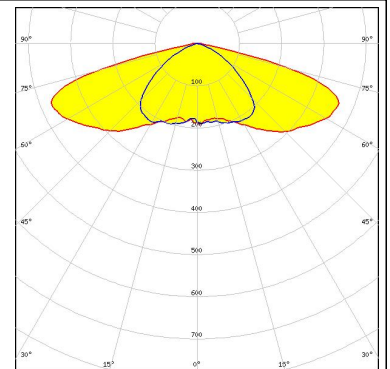
LED XP-L HI  
 FWHM 153.0 + 118.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



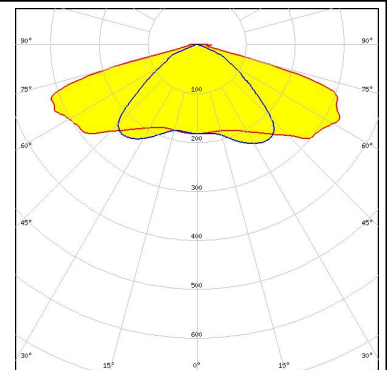
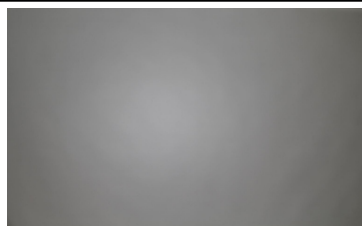
LED H35C1 (LEMWA33)  
 FWHM 154.0 + 116.0°  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON 5050 Round LES  
 FWHM 149.0 + 119.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



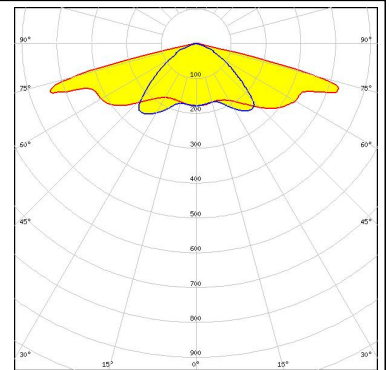
LED LUXEON V  
 FWHM 152.0 + 117.0°  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



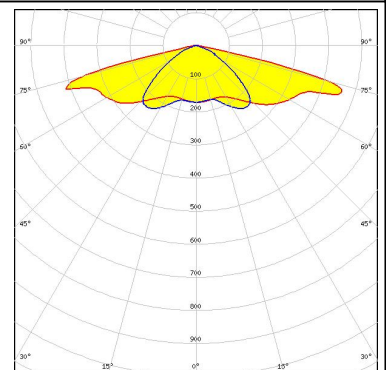
#### PHOTOMETRIC DATA (MEASURED):



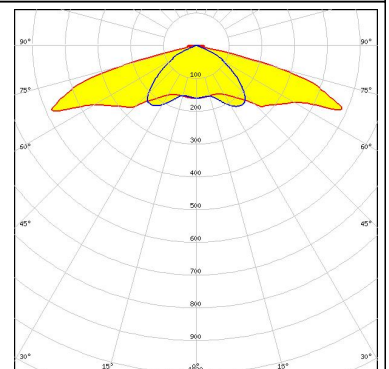
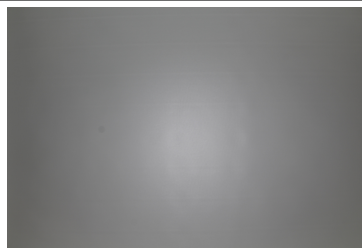
LED NVSW219F  
FWHM 154.0 + 118.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



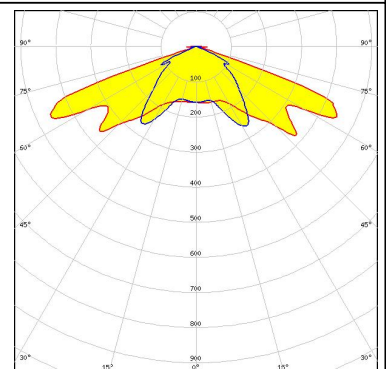
LED NVSW319B  
FWHM 155.0 + 120.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSW3x9A  
FWHM 152.0 + 125.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



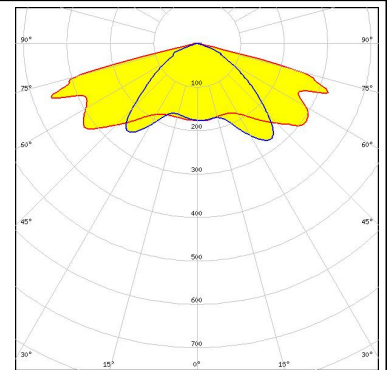
LED NVSxE21A  
FWHM 142.0 + 130.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

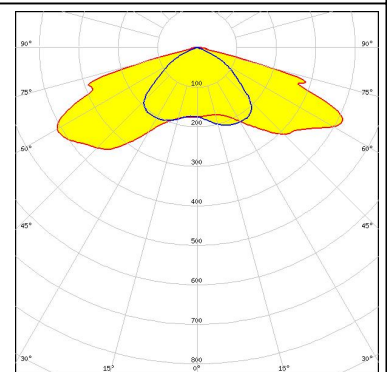
LED PrevaLED Brick HP 2x8  
FWHM 152.0 + 119.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

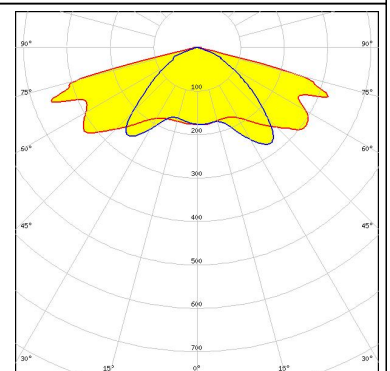
LED Duris S8  
FWHM 150.0 + 117.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

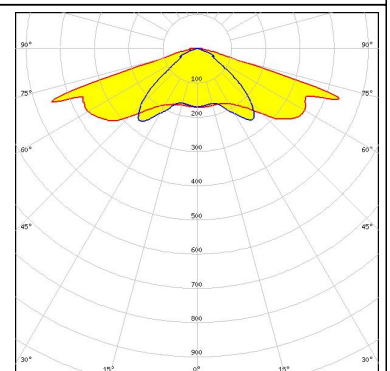
LED OSLON Square CSSRM2/CSSRM3  
FWHM 152.0 + 119.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

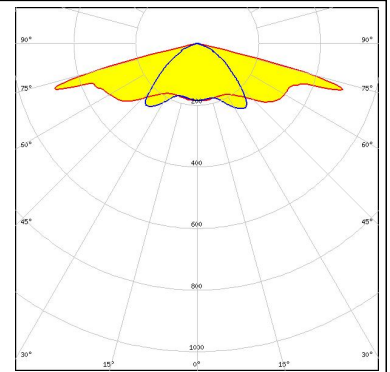
LED OSLON Square PC  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

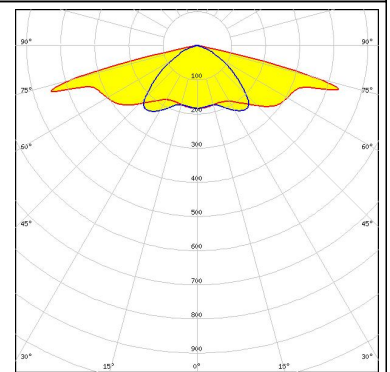
#### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4  
 FWHM 117.0 + 153.0°  
 Efficiency 94 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



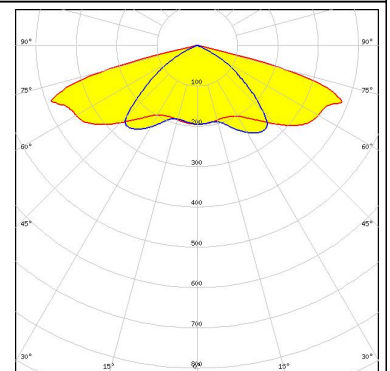
#### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



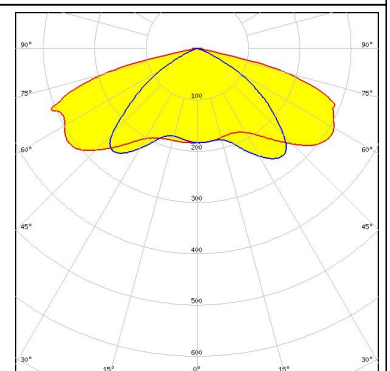
#### SAMSUNG

LED HiLOM RH16 (LH351C)  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



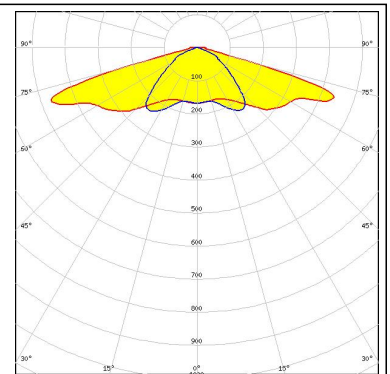
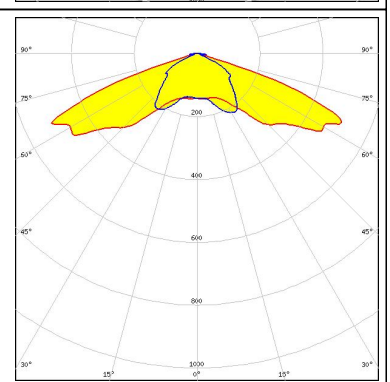

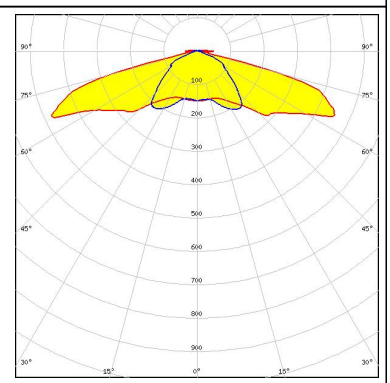
#### SAMSUNG

LED LH351B  
 FWHM 154.0 + 119.0°  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





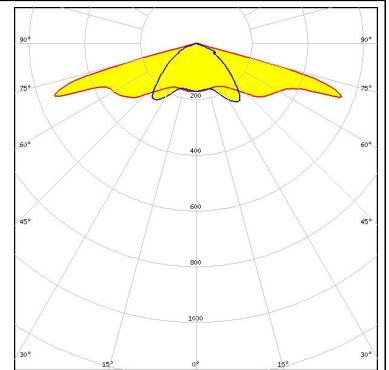
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z5M3            FWHM Asymmetric            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y22            FWHM 143.0 + 128.0°            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y22P            FWHM 151.0 + 130.0°            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED RLE 2x4 2000lm HP EXC2 OTD            FWHM 151.0 + 119.0°            Efficiency 94 %            Peak intensity 0.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

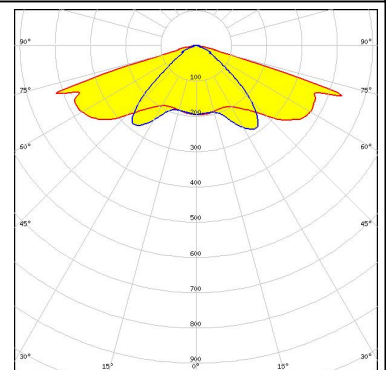
#### TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD  
FWHM 151.0 + 119.0°  
Efficiency 94 %  
Peak intensity 0.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



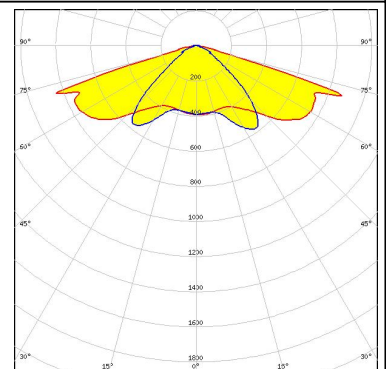
#### TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD  
FWHM 147.0 + 107.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



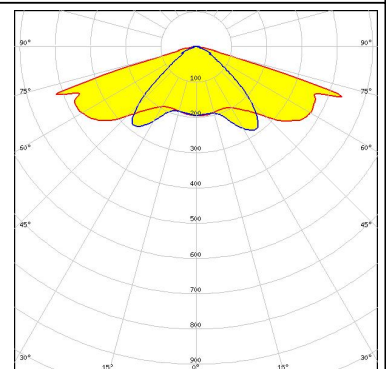
#### TRIDONIC

LED RLE G1 49x133mm 2000lm xxx EXC OTD  
FWHM 147.0 + 107.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### TRIDONIC

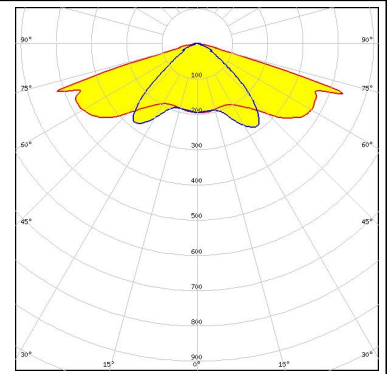
LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM 147.0 + 107.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

#### TRIDONIC

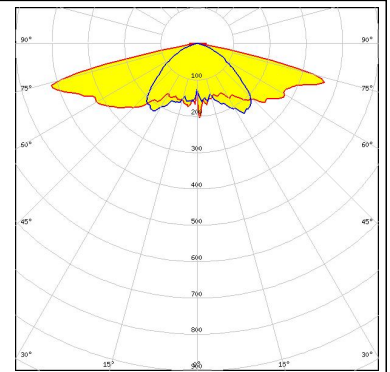
LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM 147.0 + 107.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



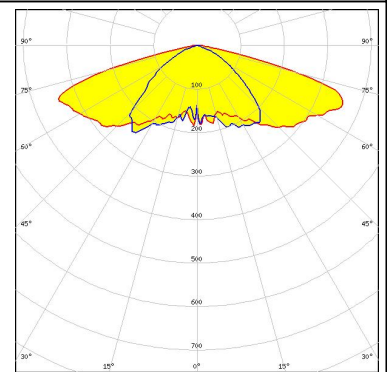
#### PHOTOMETRIC DATA (SIMULATED):



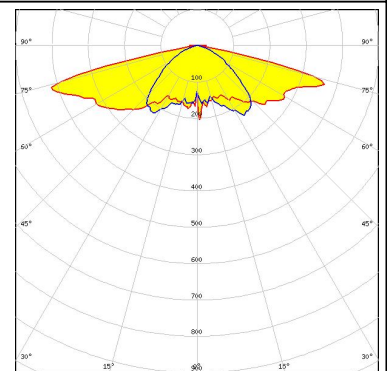
**LED** XB-D  
**FWHM** 154.0 + 107.0°  
**Efficiency** 91 %  
**Peak intensity** 0.5 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



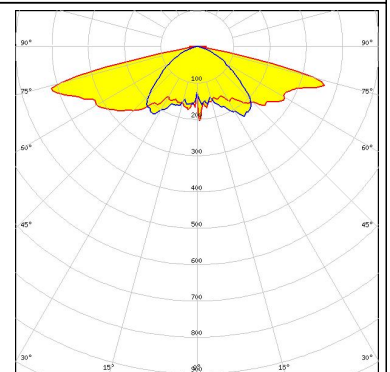
**LED** XM-L  
**FWHM** 109.0 + 152.0°  
**Efficiency** 93 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** XM-L2  
**FWHM** 153.0 + 112.0°  
**Efficiency** 93 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



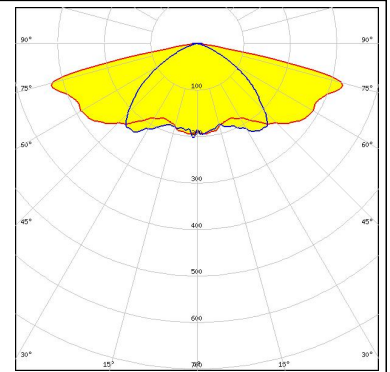
**LED** XP-G  
**FWHM** 156.0 + 112.0°  
**Efficiency** 92 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



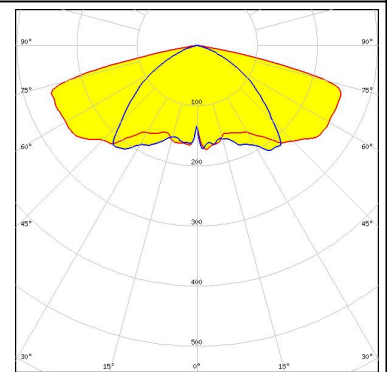
#### PHOTOMETRIC DATA (SIMULATED):



LED XP-G2 HE  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



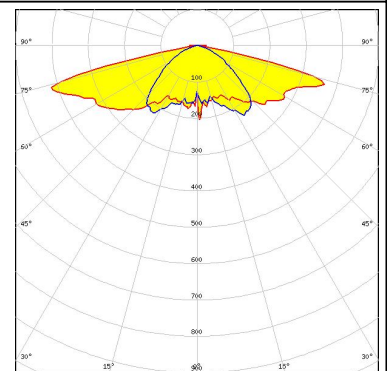
LED XP-G3  
 FWHM 154.0 + 112.0°  
 Efficiency 82 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



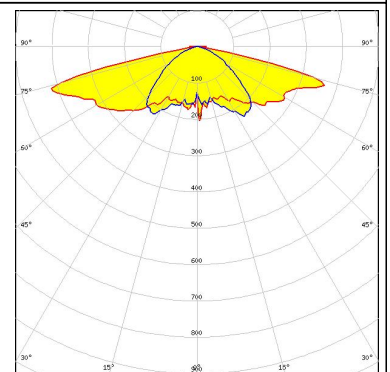
Transparent protective cover



LED XP-L HD  
 FWHM 155.0 + 109.0°  
 Efficiency 91 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



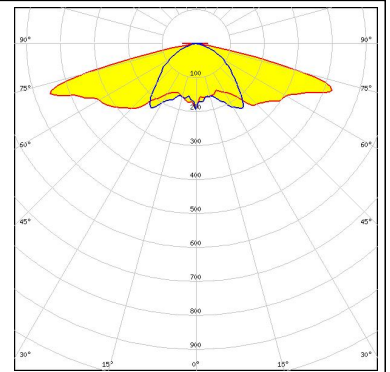
LED XT-E  
 FWHM 155.0 + 110.0°  
 Efficiency 91 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



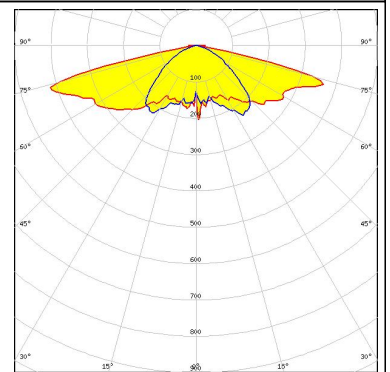
#### PHOTOMETRIC DATA (SIMULATED):



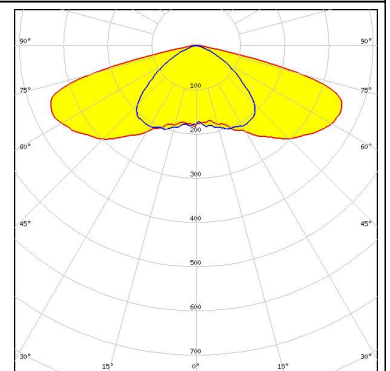
LED XT-E  
FWHM 153.0 + 110.0°  
Efficiency 95 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



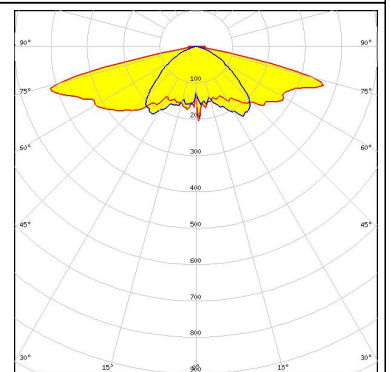
LED XT-E HVW  
FWHM 155.0 + 110.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 5050 Square LES  
FWHM 152.0 + 112.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON R  
FWHM 150.0 + 107.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



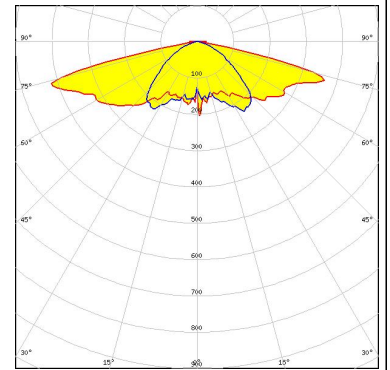
#### PHOTOMETRIC DATA (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON Rebel ES            FWHM: 151.0 + 106.0°            Efficiency: 92 %            Peak intensity: 0.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON T            FWHM: 154.0 + 110.0°            Efficiency: 96 %            Peak intensity: 0.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON TX            FWHM: 153.0 + 108.0°            Efficiency: 92 %            Peak intensity: 0.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON V2            FWHM: 154.0 + 110.0°            Efficiency: 94 %            Peak intensity: 0.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

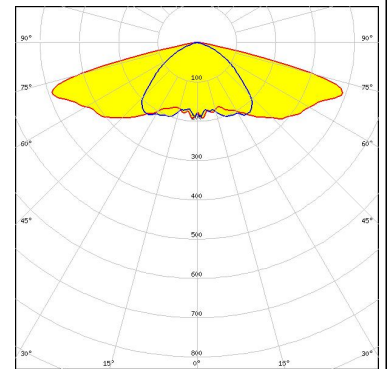
#### PHOTOMETRIC DATA (SIMULATED):



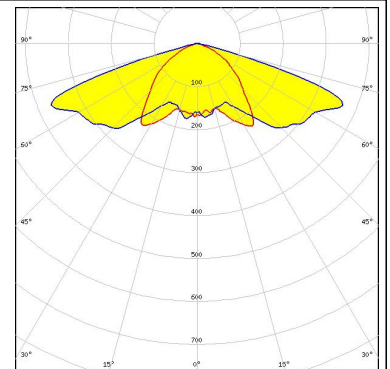
LED NCSxx19B  
 FWHM 152.0 + 111.0°  
 Efficiency 91 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NV4WB35AM  
 FWHM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



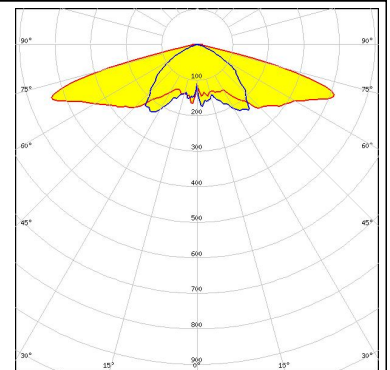
LED NVSxE21A  
 FWHM 105.0 + 146.0°  
 Efficiency 84 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



Transparent protective cover



LED NVSxx19B/NVSxx19C  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



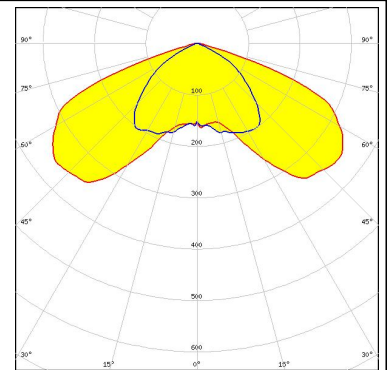


#### PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

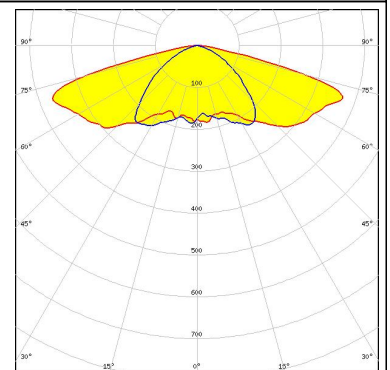
LED Duris S8  
 FWHM Asymmetric  
 Efficiency 86 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Transparent protective cover



**OSRAM**  
Opto Semiconductors

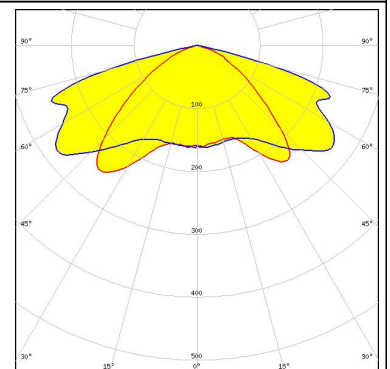
LED OSCONIQ P 3737 (3W version)  
 FWHM 153.0 + 92.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
 FWHM 148.0 + 116.0°  
 Efficiency 82 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

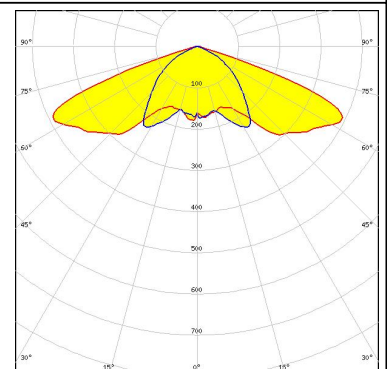
Transparent protective cover



**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
 FWHM Asymmetric  
 Efficiency 85 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

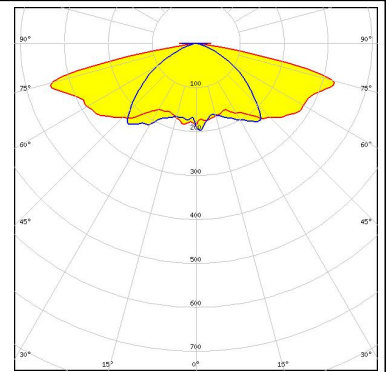
Transparent protective cover



#### PHOTOMETRIC DATA (SIMULATED):

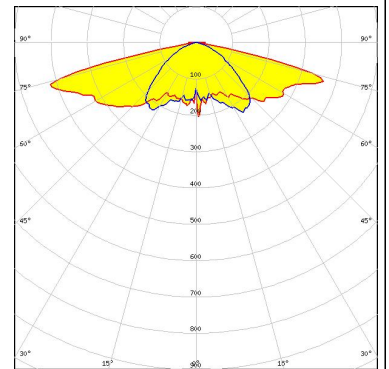
### PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4  
FWHM 157.0 + 94.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



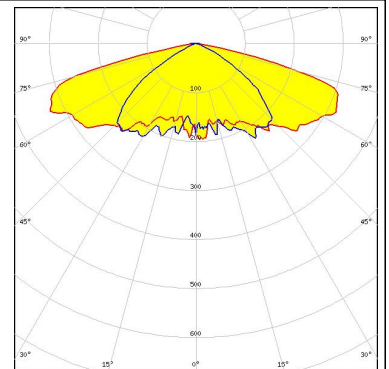
### SAMSUNG

LED LH351A  
FWHM 158.0 + 116.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



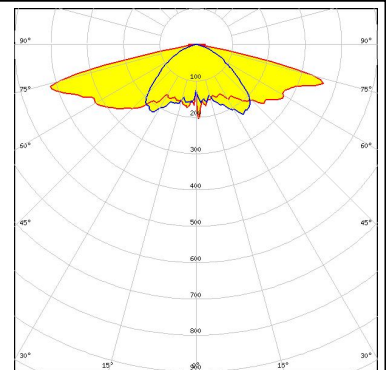
### SAMSUNG

LED LH351D  
FWHM 153.0 + 113.0°  
Efficiency 92 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

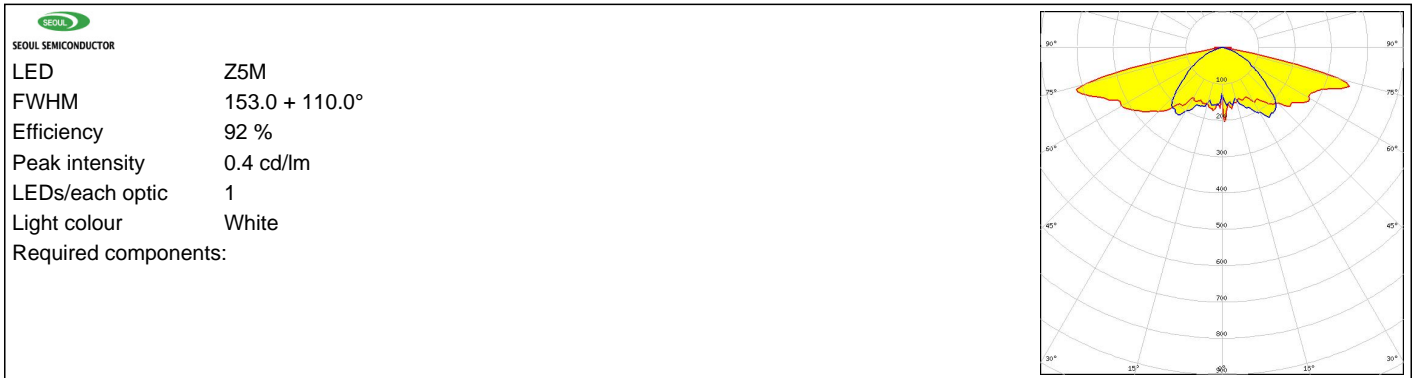


### SAMSUNG

LED LH351Z  
FWHM 150.0 + 105.0°  
Efficiency 93 %  
Peak intensity 0.4 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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