

## STRADA-2X2-MEW

Beam with extremely low glare fulfilling EN13201 M-class requirements for wet road surfaces in North Europe

### SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	10.2 mm
Fastening	screw
ROHS compliant	yes ⓘ

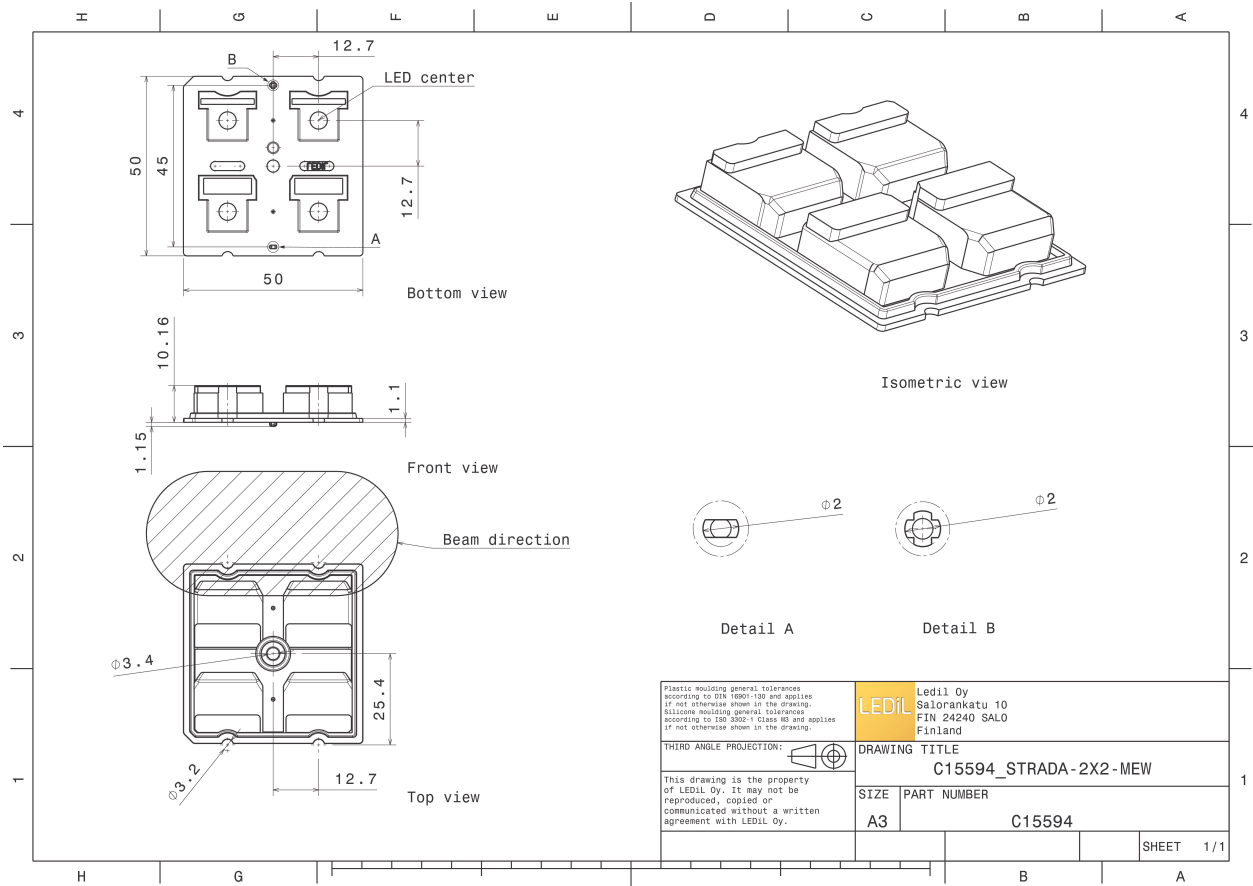


### MATERIALS:

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

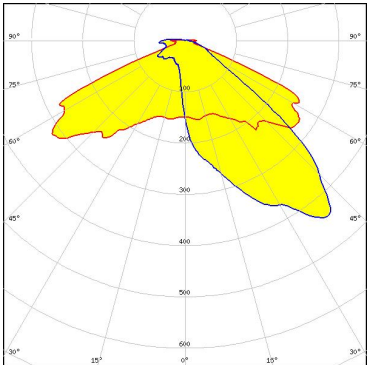
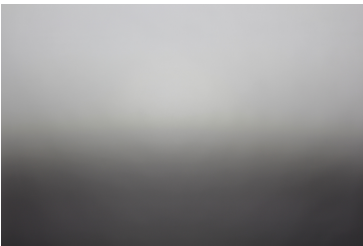
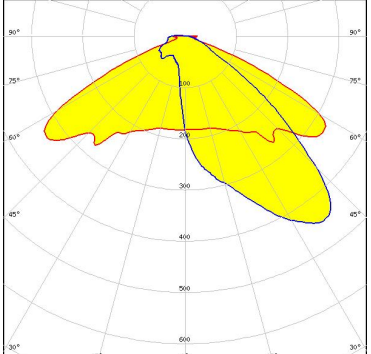
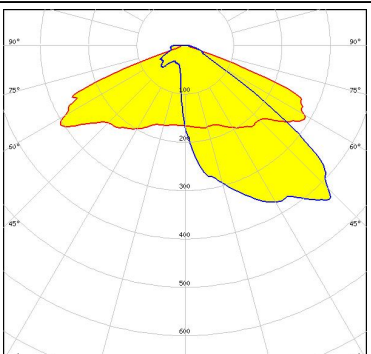
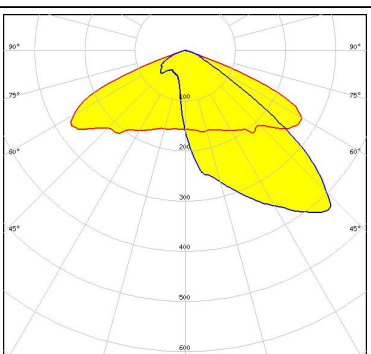
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15594_STRADA-2X2-MEW » Box size: 480 x 280 x 300 mm	800	160	160	9.6



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

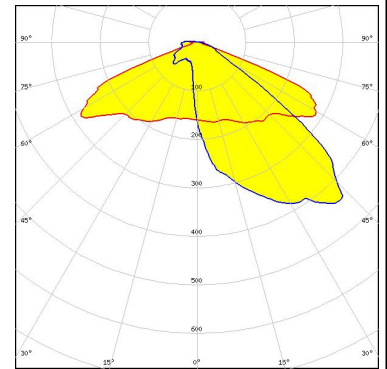
#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LEDs</p> <p>LED XD16            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LEDs</p> <p>LED XD16            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 0.7 cd/lm            LEDs/each optic 4            Light colour White            Required components:</p>	 
<p><b>CREE</b> LEDs</p> <p>LED XP-G2            FWHM / FWTM Asymmetric            Efficiency 94 %            Peak intensity 1.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>CREE</b> LEDs</p> <p>LED XP-G3            FWHM / FWTM Asymmetric            Efficiency 86 %            Peak intensity 0.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p> <p>Protective plate, glass</p>	

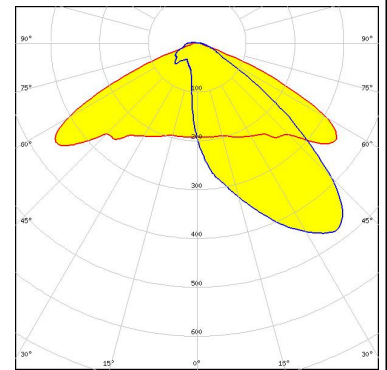
#### OPTICAL RESULTS (MEASURED):



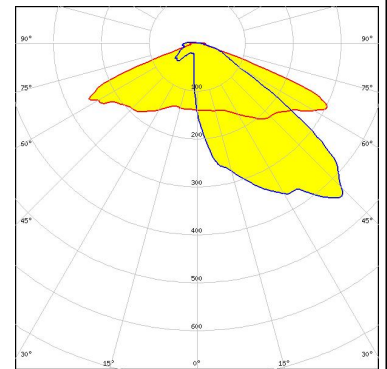
LED XP-L HI  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



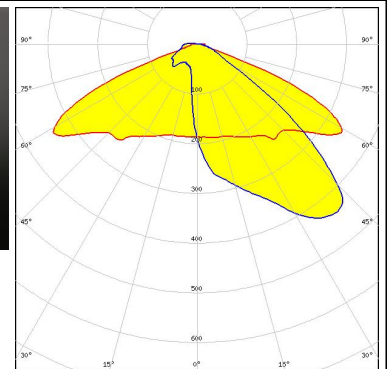
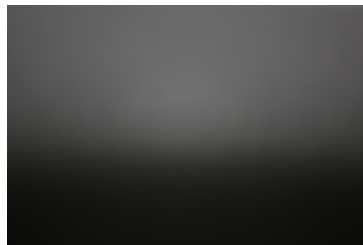
LED LUXEON 5050 Round LES  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON TX  
 FWHM / FWTM Asymmetric  
 Efficiency 92 %  
 Peak intensity 1.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON V  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

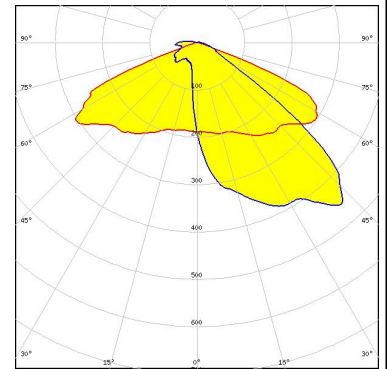




#### OPTICAL RESULTS (MEASURED):

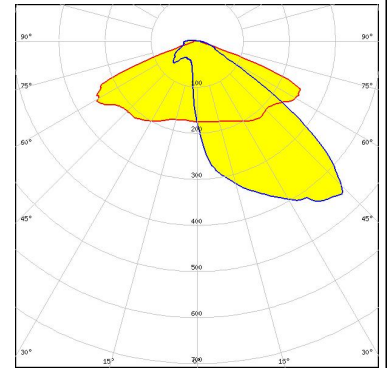
**MST** | Your solutions

LED RecLED 122x50mm 1900lm 730 2x4 Opt G1  
 FWHM / FWTM Asymmetric  
 Efficiency 97 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



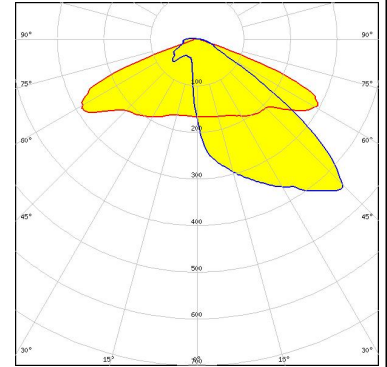
**NICHIA**

LED NVSW219D  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



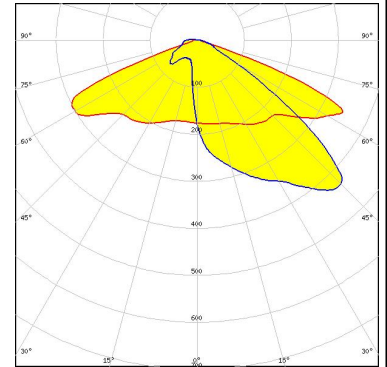
**NICHIA**

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



**NICHIA**

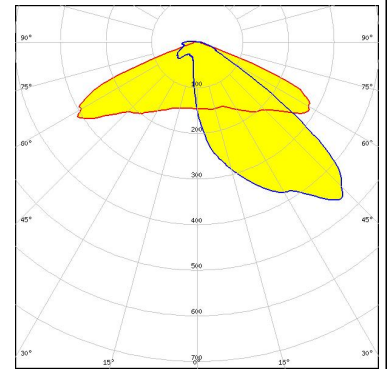
LED NVSW319B  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

#### OSRAM

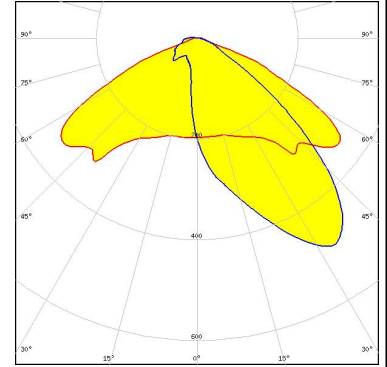
LED PrevaLED Brick HP 2x8  
 FWHM / FWTM Asymmetric  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

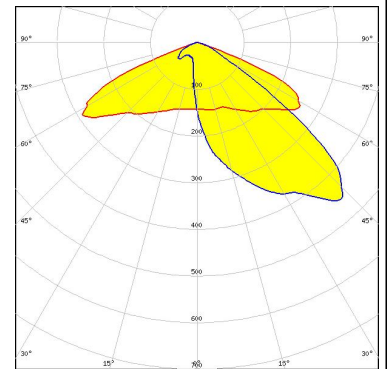


#### OSRAM

Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM Asymmetric  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

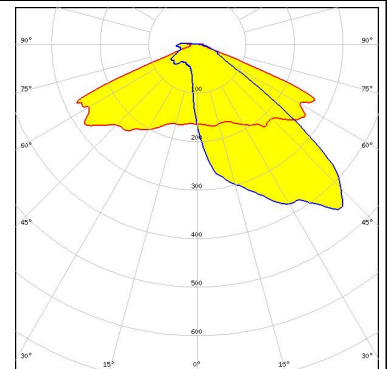
Protective plate, glass



#### OSRAM

Opto Semiconductors

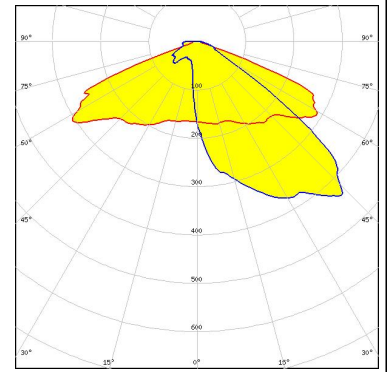
LED OSLOM Square PC  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

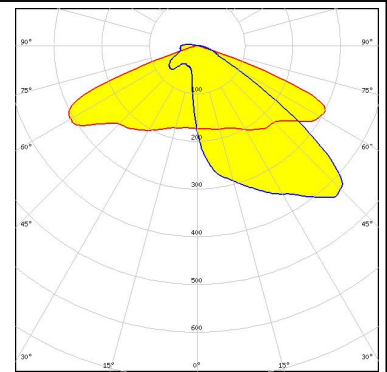
### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



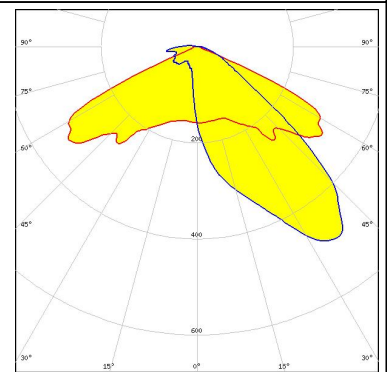
### PHILIPS

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



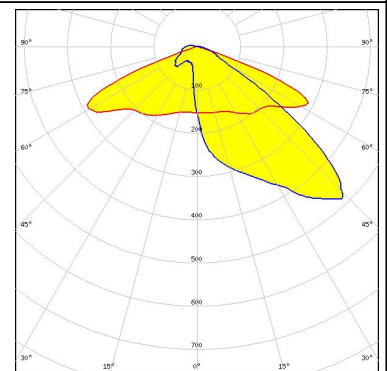
### SAMSUNG

LED HiLOM RC12 Z (LH181B)  
FWHM / FWTM Asymmetric  
Efficiency 96 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### SAMSUNG

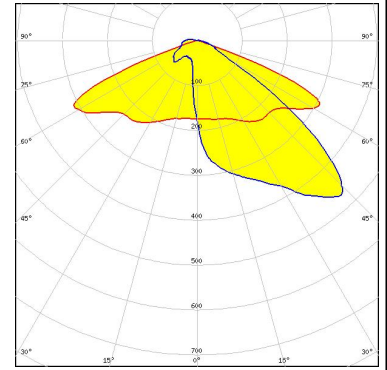
LED HiLOM RH12 Z (LH351C)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OPTICAL RESULTS (MEASURED):

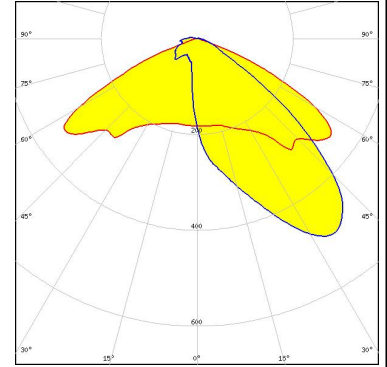
### SAMSUNG

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



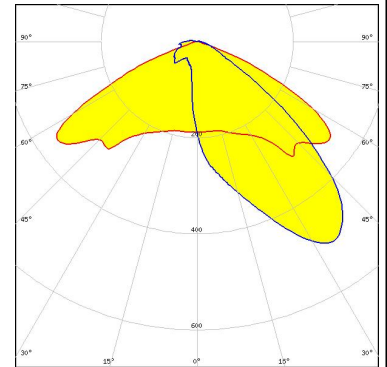
### SAMSUNG

LED HiLOM RM12 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 97 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



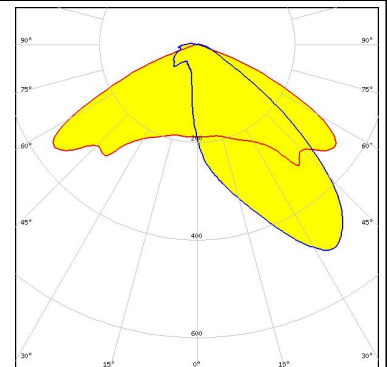
### SAMSUNG

LED HiLOM RM16 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

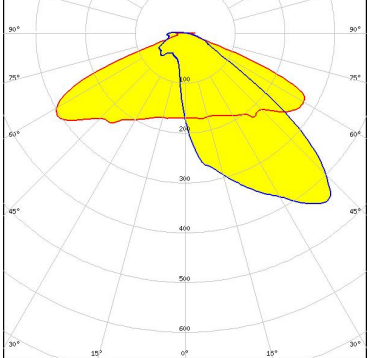
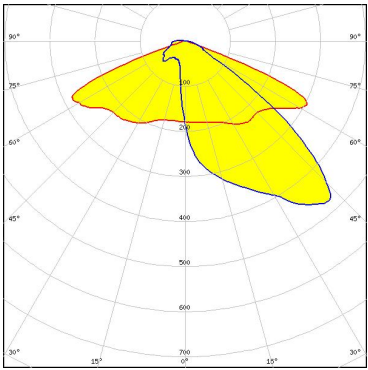

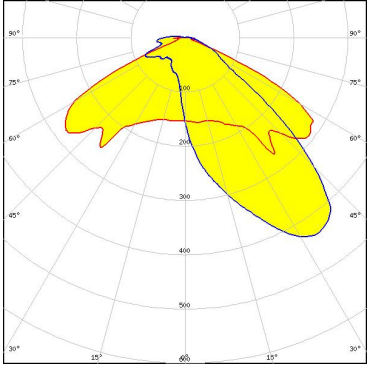


### SAMSUNG

LED HiLOM RM8 Z (LH502C)  
FWHM / FWTM Asymmetric  
Efficiency 98 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



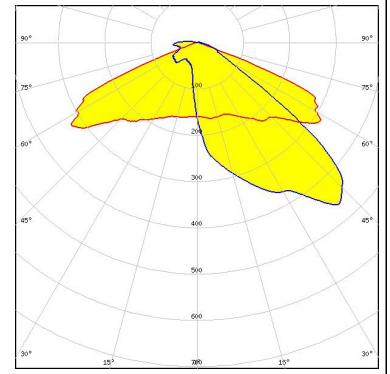
#### OPTICAL RESULTS (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z5M3            FWHM / FWTM: Asymmetric            Efficiency: 96 %            Peak intensity: 0.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z5M4            FWHM / FWTM: Asymmetric            Efficiency: 97 %            Peak intensity: 1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z8Y22            FWHM / FWTM: Asymmetric            Efficiency: 94 %            Peak intensity: 0.9 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 / FWTM: Asymmetric            Efficiency: 94 %            Peak intensity: 1.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

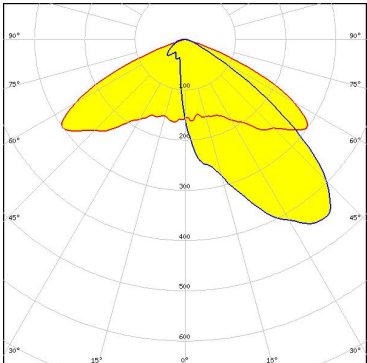
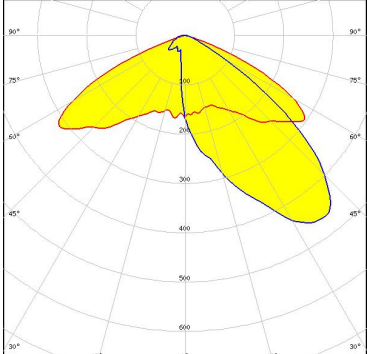
#### TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD  
FWHM / FWTM Asymmetric  
Efficiency 94 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:





#### OPTICAL RESULTS (SIMULATED):

<p><b>bridgelux</b></p> <p>LED: Bridgelux SMD 5050            FWHM / FWTM: Asymmetric            Efficiency: 84 %            Peak intensity: 0.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p style="background-color: #ADD8E6; padding: 2px; display: inline-block;">Protective plate, glass</p>	
<p><b>CREE LEDs</b></p> <p>LED: J Series 5050B 6V K Class            FWHM / FWTM: Asymmetric            Efficiency: 84 %            Peak intensity: 0.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p style="background-color: #ADD8E6; padding: 2px; display: inline-block;">Protective plate, glass</p>	
<p><b>CREE LEDs</b></p> <p>LED: XHP35 HD            FWHM / FWTM: Asymmetric            Efficiency: %            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE LEDs</b></p> <p>LED: XHP35 HI            FWHM / FWTM: Asymmetric            Efficiency: %            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

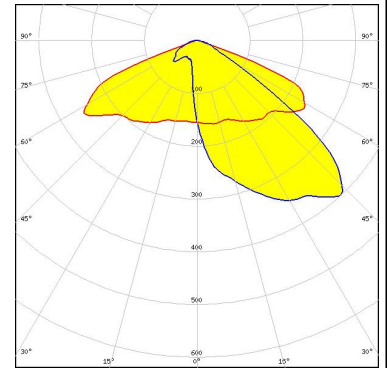


LED XM-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 0 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

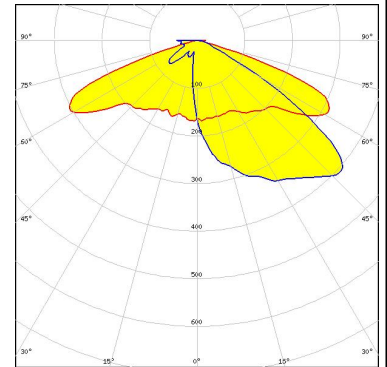


LED XP-G2  
 FWHM / FWTM Asymmetric  
 Efficiency 83 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

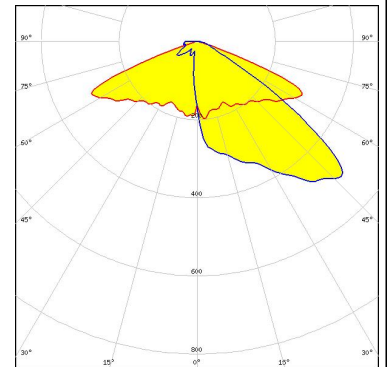
Protective plate, glass



LED XP-G2 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-G4  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

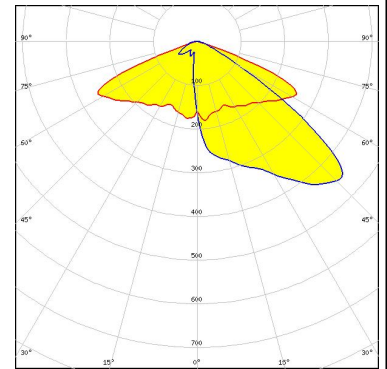


#### OPTICAL RESULTS (SIMULATED):

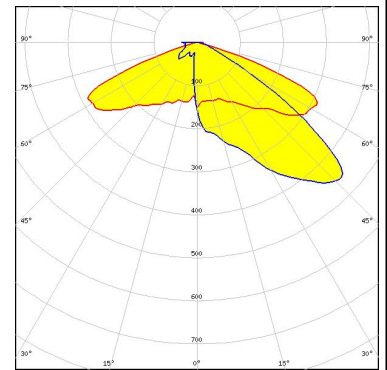


LED XP-G4  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

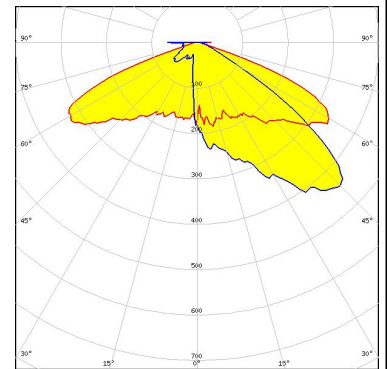
Protective plate, glass



LED XP-L HD  
 FWHM / FWTM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

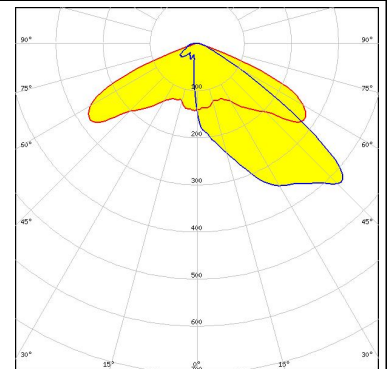


LED XP-L2  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XT-E  
 FWHM / FWTM Asymmetric  
 Efficiency 81 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass

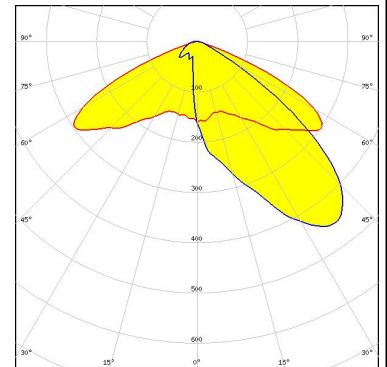


#### OPTICAL RESULTS (SIMULATED):

##### LUMILEDS

LED LUXEON 5050 HE  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

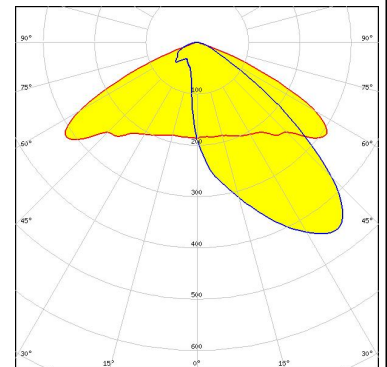
Protective plate, glass



##### LUMILEDS

LED LUXEON 5050 Round LES  
 FWHM / FWTM Asymmetric  
 Efficiency 87 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

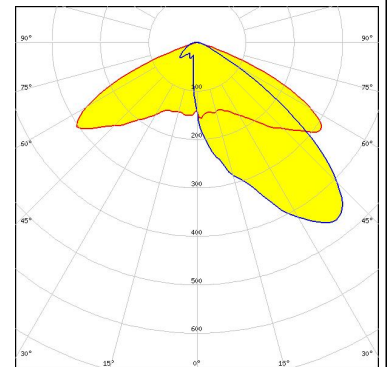
Protective plate, glass



##### LUMILEDS

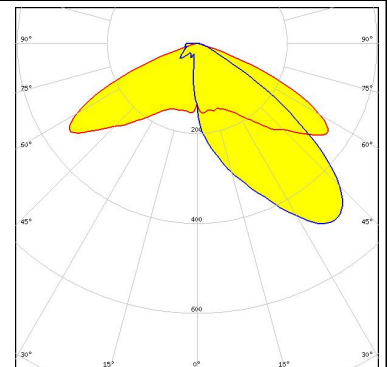
LED LUXEON 5050 Square LES  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass

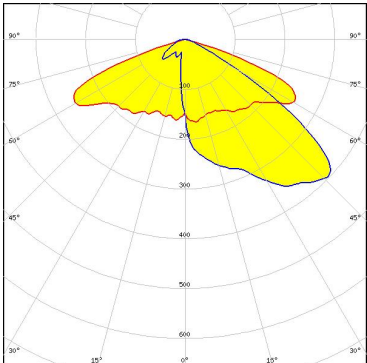
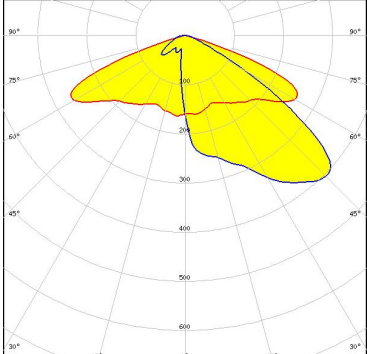
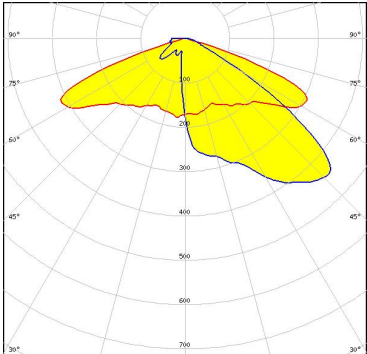


##### LUMILEDS

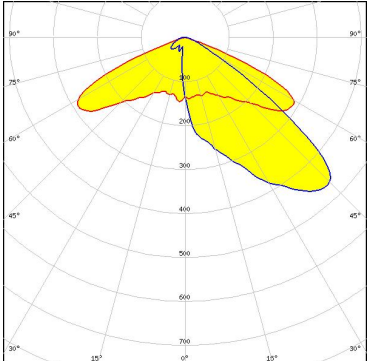
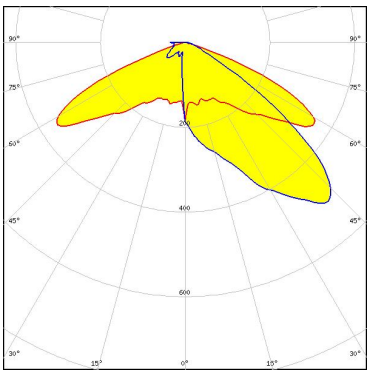
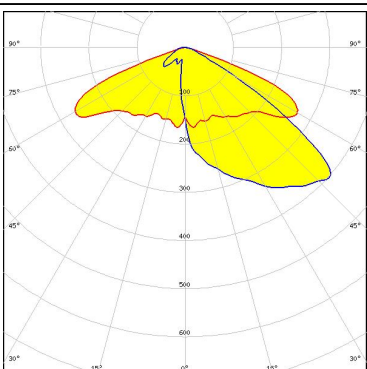
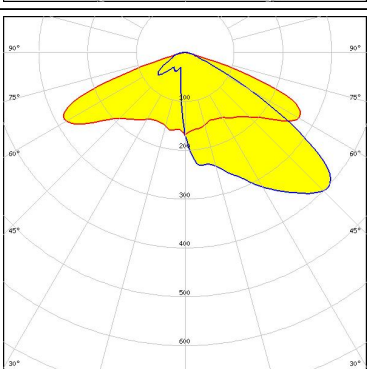
LED LUXEON 5050 Square LES  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

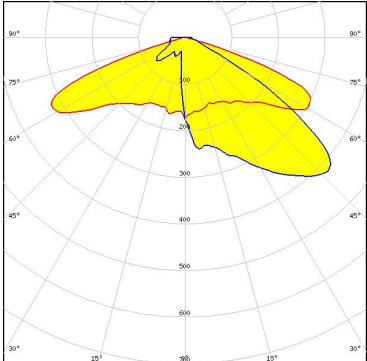
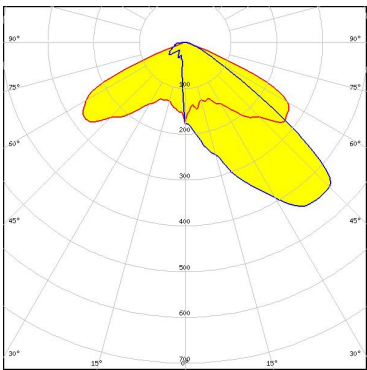
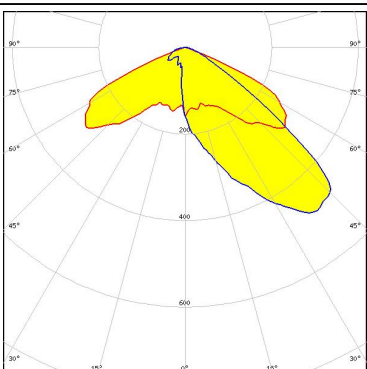
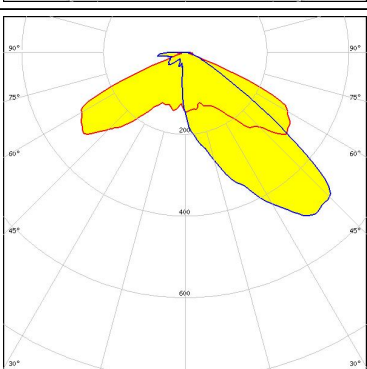
<p><b>LUMILEDS</b></p> <p>LED: LUXEON HL2X            FWHM / FWTM: Asymmetric            Efficiency: 82 %            Peak intensity: 0.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p>Protective plate, glass</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)            FWHM / FWTM: Asymmetric            Efficiency: 83 %            Peak intensity: 0.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p>Protective plate, glass</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)            FWHM / FWTM: Asymmetric            Efficiency: 96 %            Peak intensity: 0.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NCSxx19B            FWHM / FWTM: Asymmetric            Efficiency: 0 %            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NF2x757G            FWHM / FWTM: Asymmetric            Efficiency: 84 %            Peak intensity: 0.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p>Protective plate, glass</p>	
<p><b>NICHIA</b></p> <p>LED: NV4WB35AM            FWHM / FWTM: Asymmetric            Efficiency: 95 %            Peak intensity: 0.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSW219F            FWHM / FWTM: Asymmetric            Efficiency: 82 %            Peak intensity: 0.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p>Protective plate, glass</p>	
<p><b>NICHIA</b></p> <p>LED: NVSW519A            FWHM / FWTM: Asymmetric            Efficiency: 85 %            Peak intensity: 0.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p>Protective plate, glass</p>	



#### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NVSW519A            FWHM / FWTM: Asymmetric            Efficiency: 94 %            Peak intensity: 0.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: Asymmetric            Efficiency: 82 %            Peak intensity: 0.9 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p style="background-color: #ADD8E6; padding: 2px; display: inline-block;">Protective plate, glass</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: Asymmetric            Efficiency: 86 %            Peak intensity: 1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p> <p style="background-color: #ADD8E6; padding: 2px; display: inline-block;">Protective plate, glass</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: Asymmetric            Efficiency: 94 %            Peak intensity: 1.1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

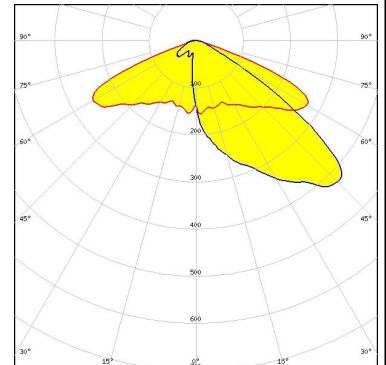


LED NVSxx19B/NVSxx19C  
 FWHM / FWTM Asymmetric  
 Efficiency 0 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



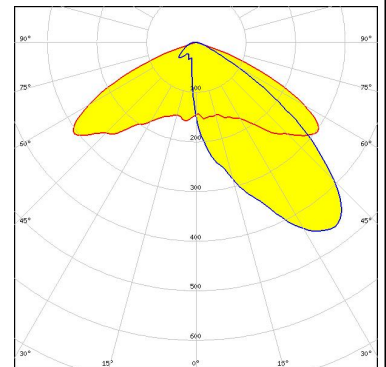
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM Asymmetric  
 Efficiency 83 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass

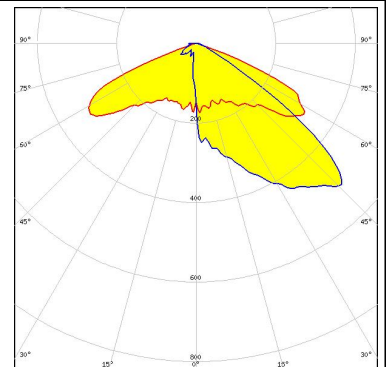


LED Duris S8  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass



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



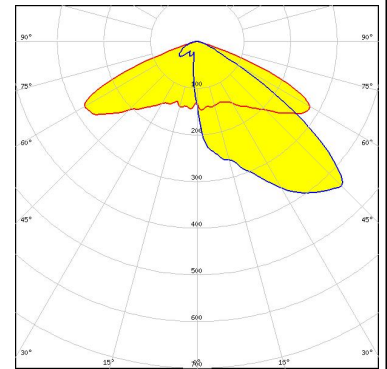
#### OPTICAL RESULTS (SIMULATED):

#### OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM Asymmetric  
 Efficiency 83 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

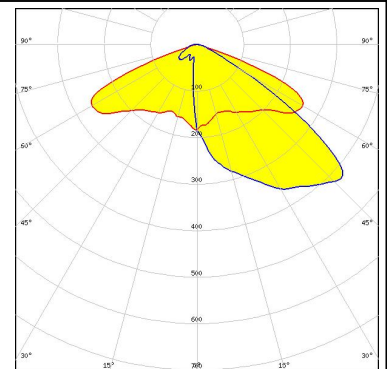
Protective plate, glass



#### PHILIPS

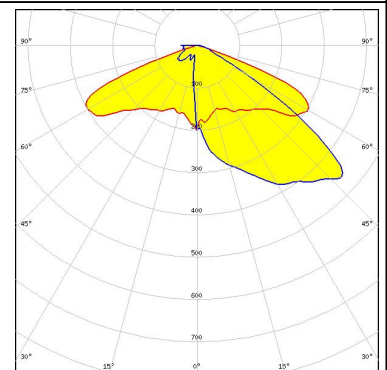
LED Fortimo FastFlex LED 2x8 DA G5  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass



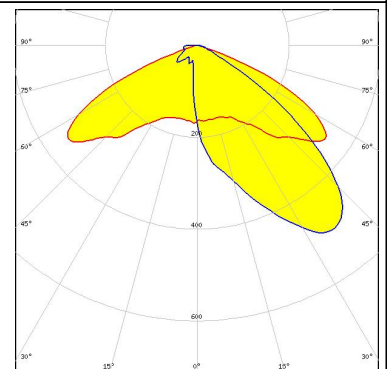
#### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G5  
 FWHM / FWTM Asymmetric  
 Efficiency 95 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHILIPS

LED Fortimo FastFlex LED 2x8 DA HE  
 FWHM / FWTM Asymmetric  
 Efficiency 96 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

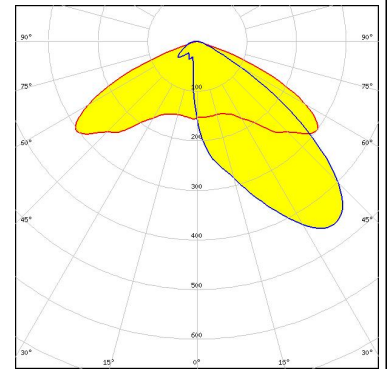


#### OPTICAL RESULTS (SIMULATED):

### PHILIPS

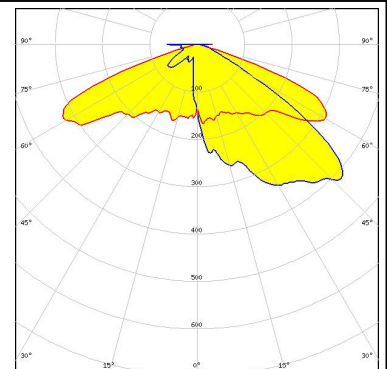
LED Fortimo FastFlex LED 2x8 DA HE  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass



### PHILIPS

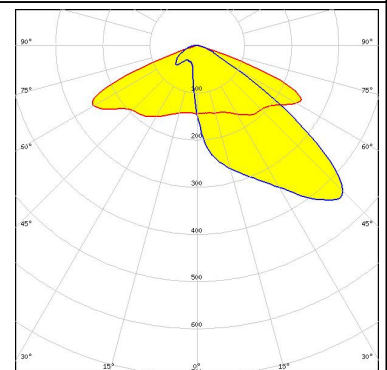
LED Fortimo FastFlex LED 2x8 DAX G4  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### SAMSUNG

LED HiLOM RH12 Z (LH351C)  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

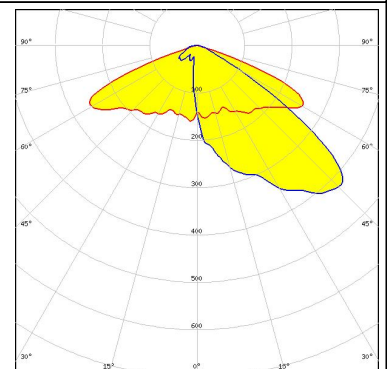
Protective plate, glass



### SAMSUNG

LED LH351B  
 FWHM / FWTM Asymmetric  
 Efficiency 83 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

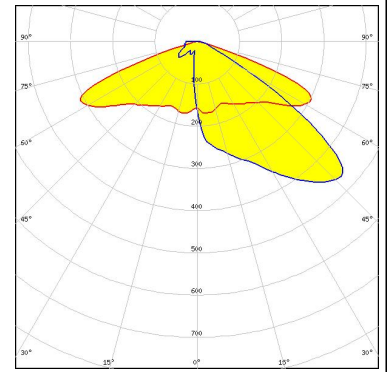
Protective plate, glass



#### OPTICAL RESULTS (SIMULATED):

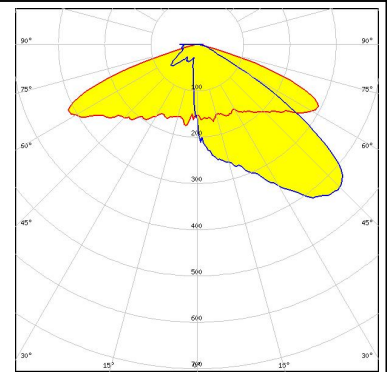
#### SAMSUNG

LED LH351C  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

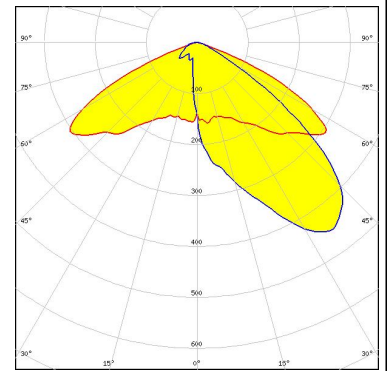
LED LH351D  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### SAMSUNG

LED LH502D  
 FWHM / FWTM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

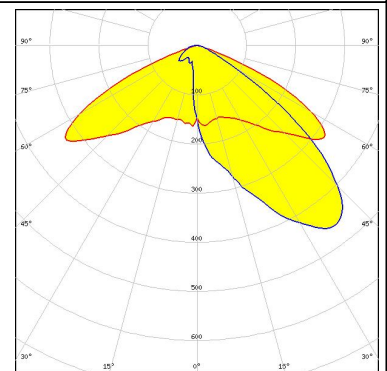
Protective plate, glass



#### SAMSUNG

LED LH508A  
 FWHM / FWTM Asymmetric  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass

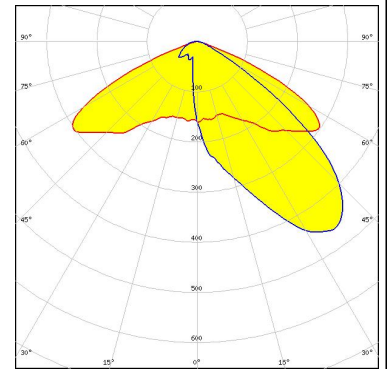


#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

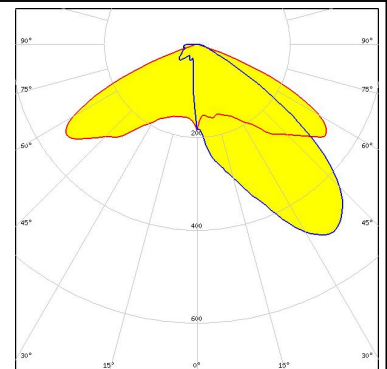
LED LH508B  
 FWHM / FWTM Asymmetric  
 Efficiency 85 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass

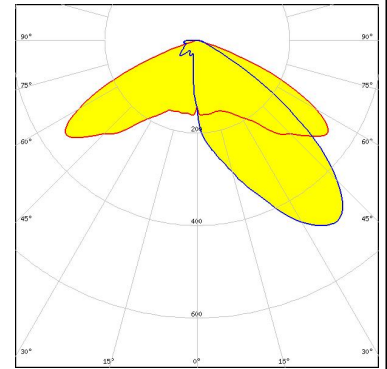


### SAMSUNG

LED LH508B  
 FWHM / FWTM Asymmetric  
 Efficiency 95 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

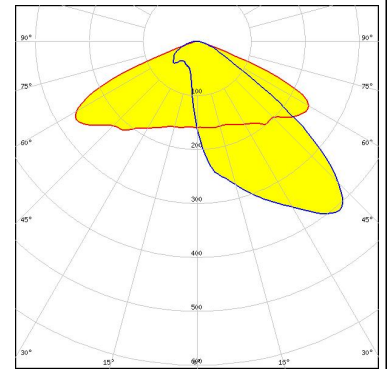


SEOUL SEMICONDUCTOR  
 LED MJT 5050  
 FWHM / FWTM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR  
 LED Z5M3  
 FWHM / FWTM Asymmetric  
 Efficiency 82 %  
 Peak intensity 0.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Protective plate, glass





#### OPTICAL RESULTS (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.

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