

## STRADA-2X2-ME

Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less the pole height

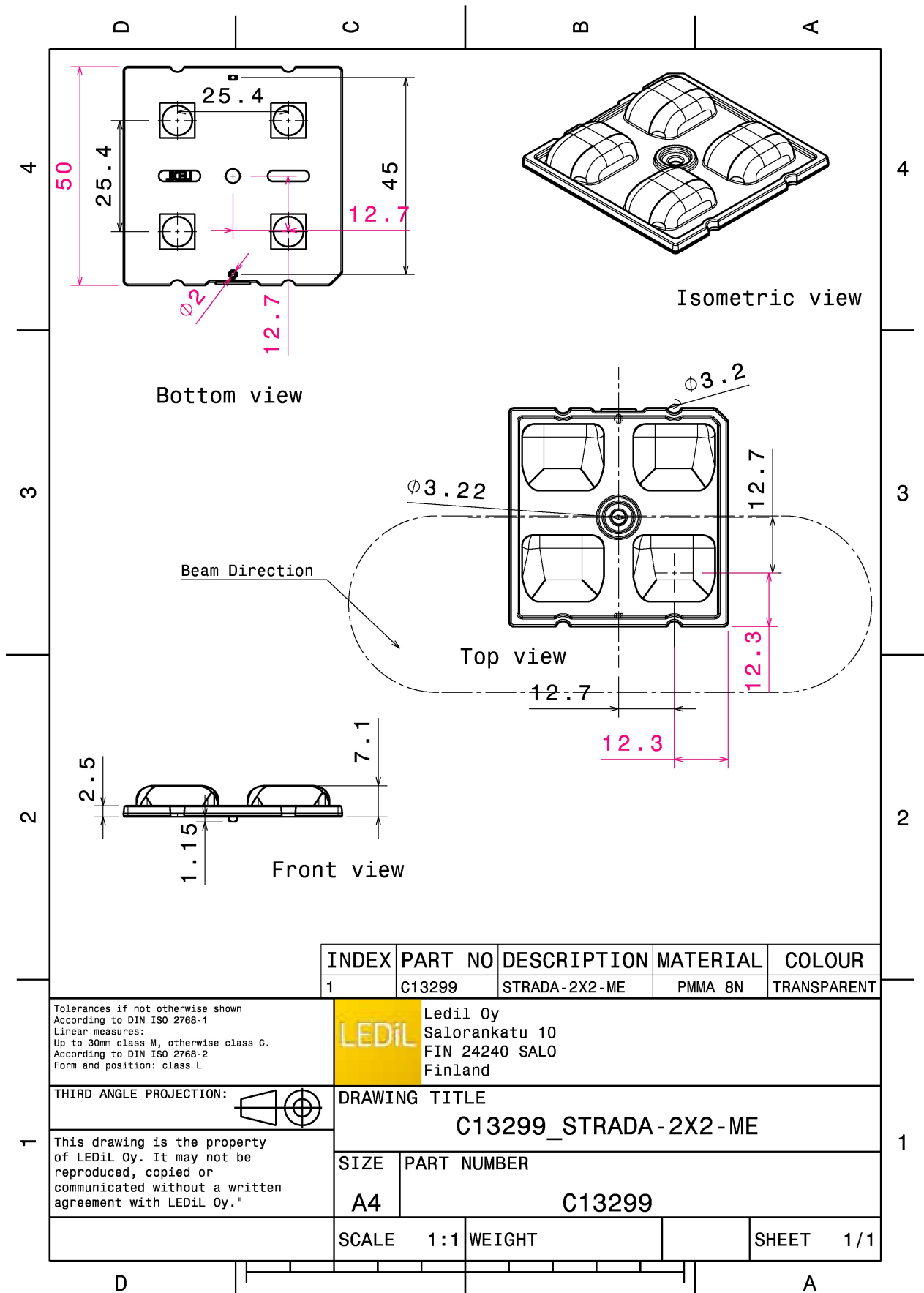
### TECHNICAL SPECIFICATIONS:

Dimensions	50.0 mm
Height	7.1 mm
Fastening	glue, pin, screw
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	7.9 kg
Quantity in Box	800 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

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



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13299	STRADA-2X2-ME	PMMA 8N	TRANSPARENT

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L



Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

C13299\_STRADA-2X2-ME

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SIZE PART NUMBER



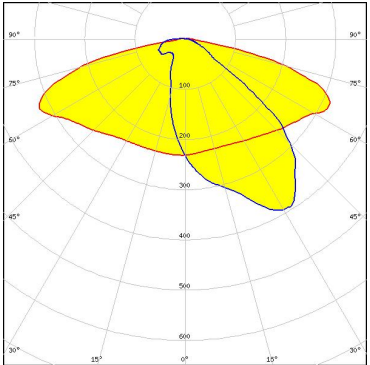

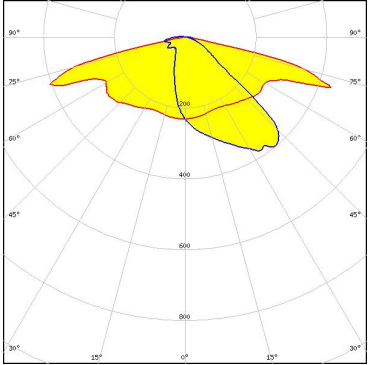

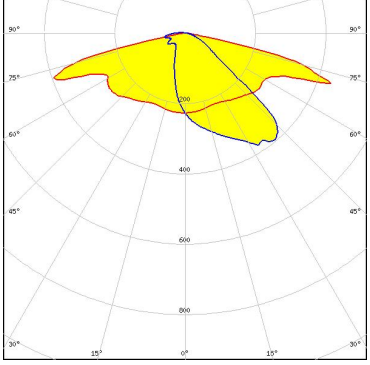

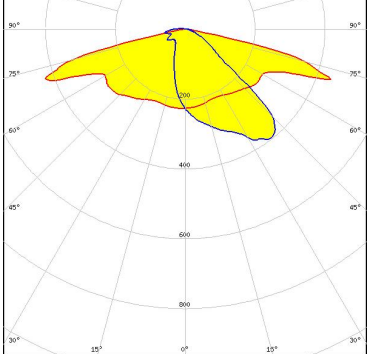
A4

C13299

SCALE 1:1 WEIGHT

SHEET 1/1

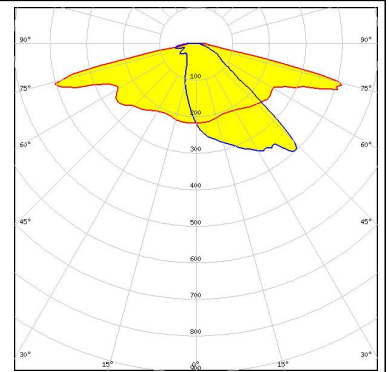
#### PHOTOMETRIC DATA (MEASURED):

<p> <b>bridgelux</b></p> <p>LED                    Bridgelux SMD 5050            FWHM                Asymmetric            Efficiency            94 %            Peak intensity      0.530 cd/m            LEDs/each optic    1            Light colour        White            Required components:</p>		
<p> <b>COMET ELECTRONICS</b></p> <p>LED                    QUICK FLUX XTP 2x4 xxx LS G5            FWHM                Asymmetric            Efficiency            94 %            Peak intensity      0.920 cd/m            LEDs/each optic    1            Light colour        White            Required components:</p>		
<p> <b>COMET ELECTRONICS</b></p> <p>LED                    QUICK FLUX XTP 2x6 xxx LS G5            FWHM                Asymmetric            Efficiency            94 %            Peak intensity      0.920 cd/m            LEDs/each optic    1            Light colour        White            Required components:</p>		
<p> <b>COMET ELECTRONICS</b></p> <p>LED                    QUICK FLUX XTP 2x8 xxx LS G5            FWHM                Asymmetric            Efficiency            94 %            Peak intensity      0.930 cd/m            LEDs/each optic    1            Light colour        White            Required components:</p>		

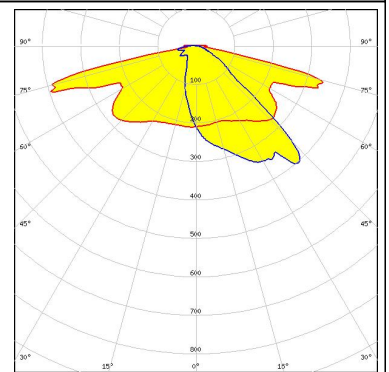
#### PHOTOMETRIC DATA (MEASURED):



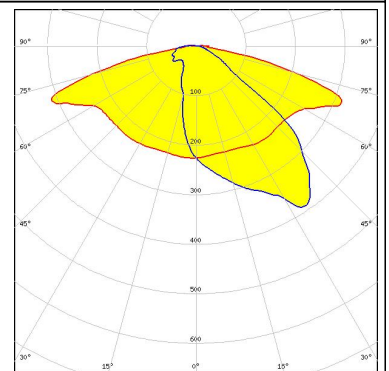
LED XB-D  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.150 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



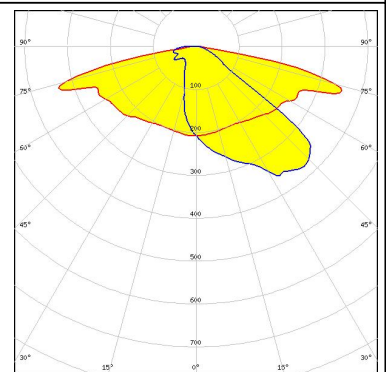
LED XD16  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XD16  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.560 cd/lm  
 LEDs/each optic 4  
 Light colour White  
 Required components:



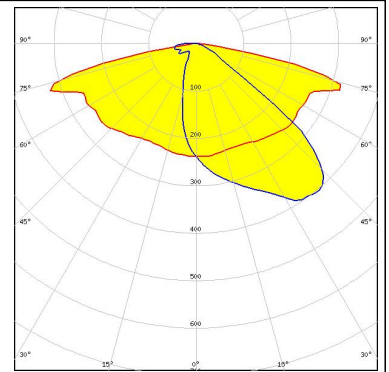
LED XM-L  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

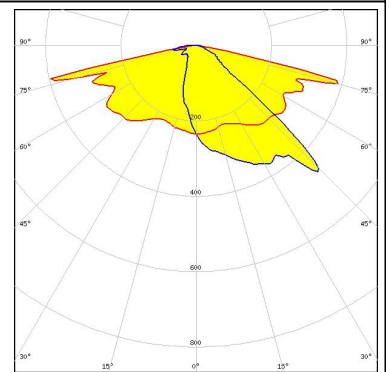
#### CREE

LED XM-L2  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



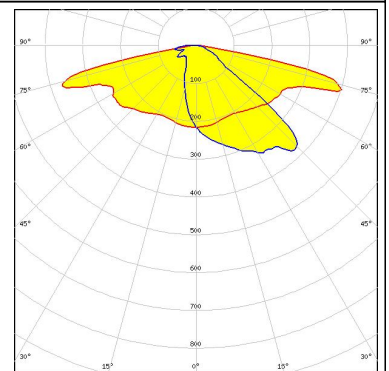
#### CREE

LED XP-E2  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.300 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



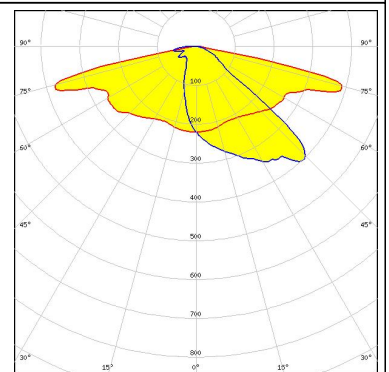
#### CREE

LED XP-G  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

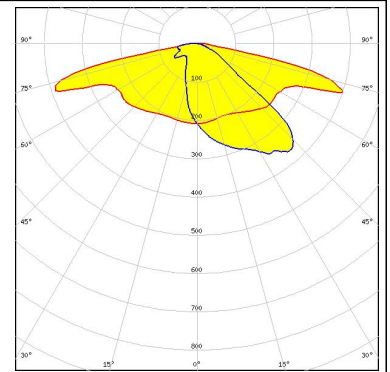
LED XP-G2  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.100 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

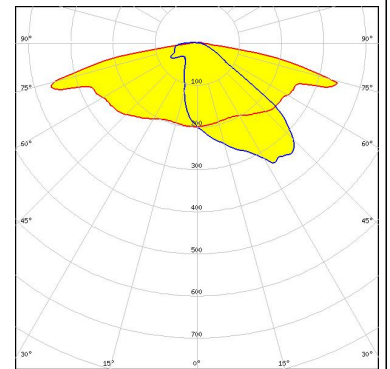
#### CREE

LED XP-G3  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.900 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



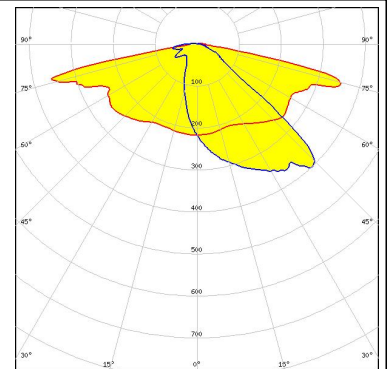
#### CREE

LED XP-L HD  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.720 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



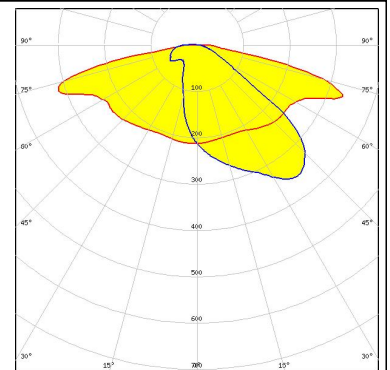
#### CREE

LED XP-L HI  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

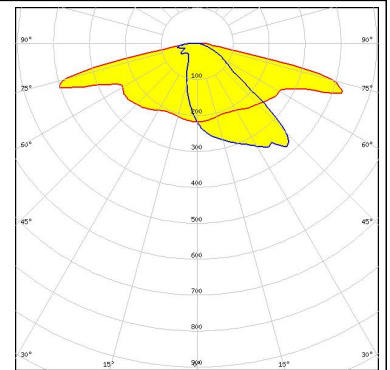
LED XP-L2  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.630 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



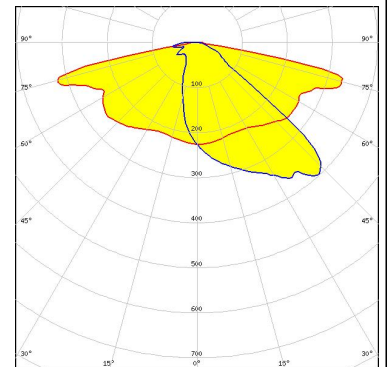
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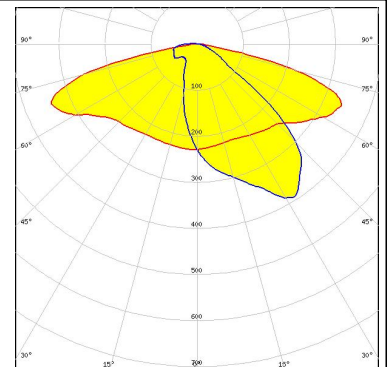
LED XT-E  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



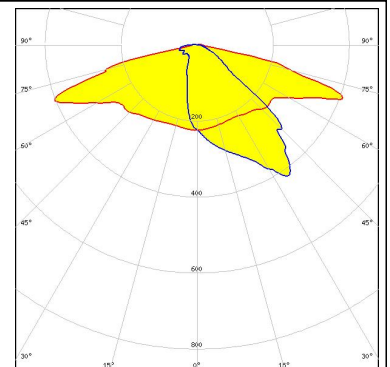
LED H35C1 (LEMWA33)  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON 5050 Round LES  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.570 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



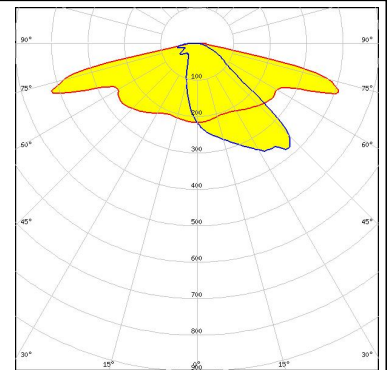
LED LUXEON MZ  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

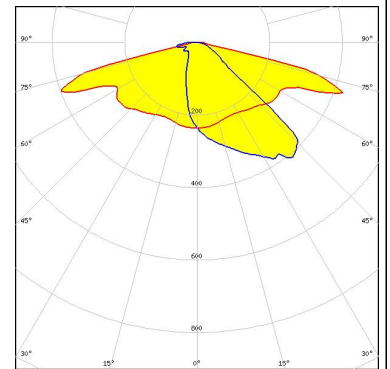
##### LUMILEDS

LED LUXEON Q  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.000 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



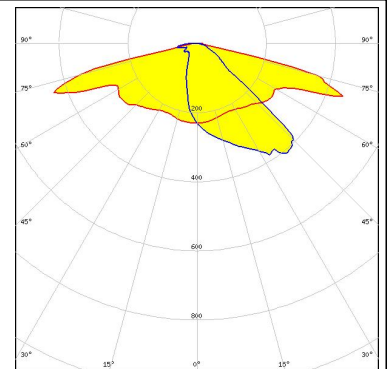
##### LUMILEDS

LED LUXEON R  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.900 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



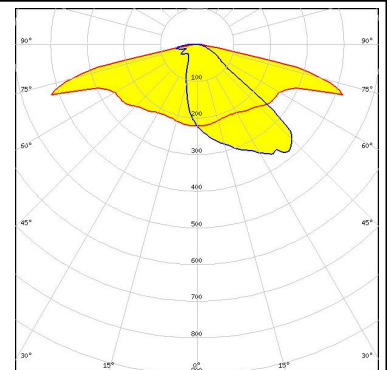
##### LUMILEDS

LED LUXEON Rebel ES  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.000 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

LED LUXEON T  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.970 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

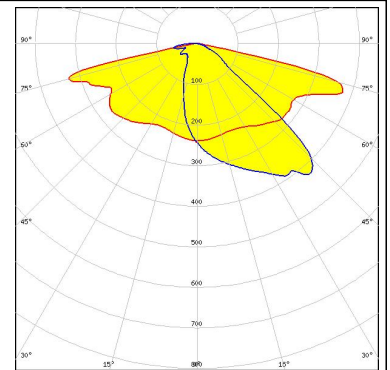




#### PHOTOMETRIC DATA (MEASURED):

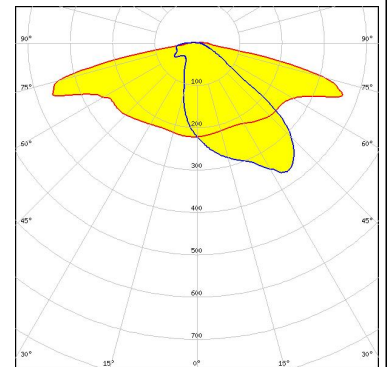
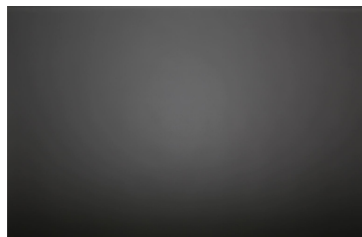
##### LUMILEDS

LED LUXEON TX  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.960 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



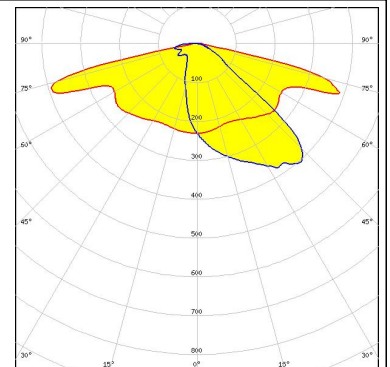
##### LUMILEDS

LED LUXEON V  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.660 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



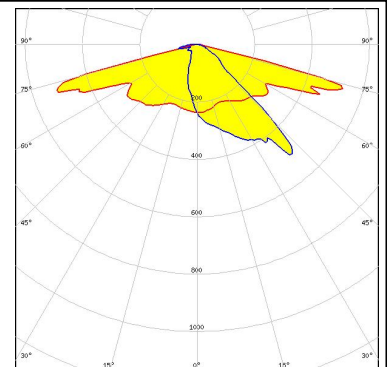
##### LUMILEDS

LED LUXEON V2  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.930 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

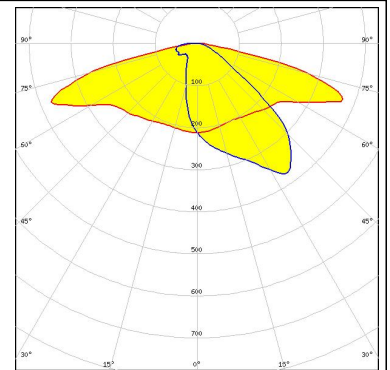
LED LUXEON Z ES  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.400 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



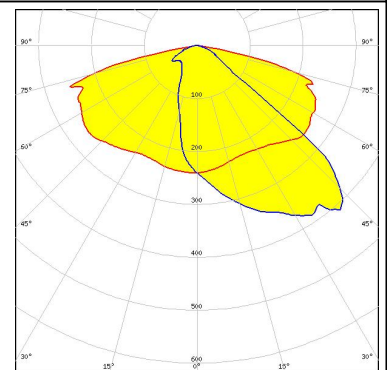
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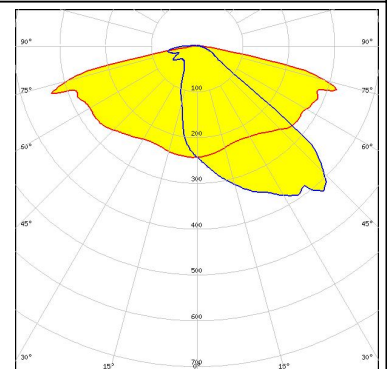
LED NS9x383  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.600 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



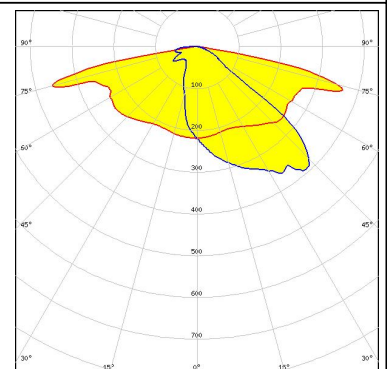
LED NVSW219D  
FWHM Asymmetric  
Efficiency 86 %  
Peak intensity 0.607 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSW219D  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.788 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



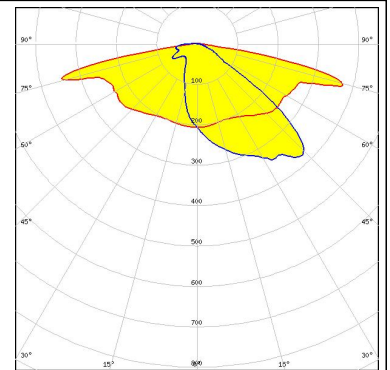
LED NVSW219F  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.880 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



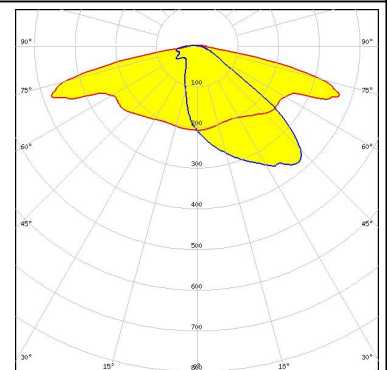
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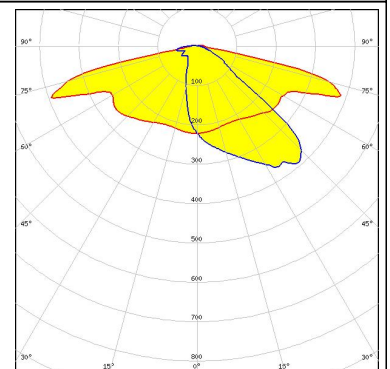
LED NVSW319B  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



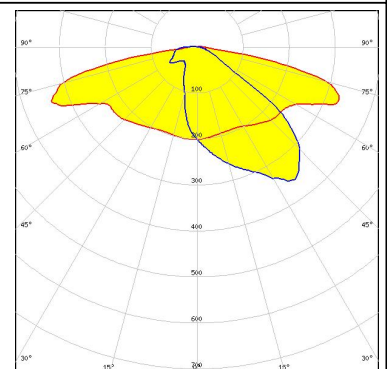
LED NVSW3x9A  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.770 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSxx19B/NVSxx19C  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.900 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



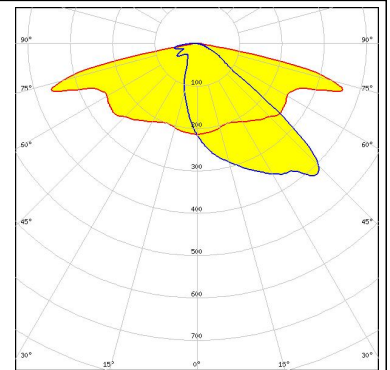
LED NWSx229A  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.620 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

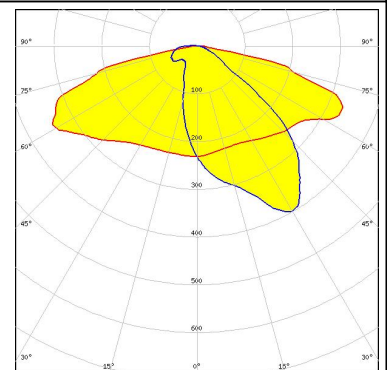
LED PrevaLED Brick HP 2x8  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.980 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

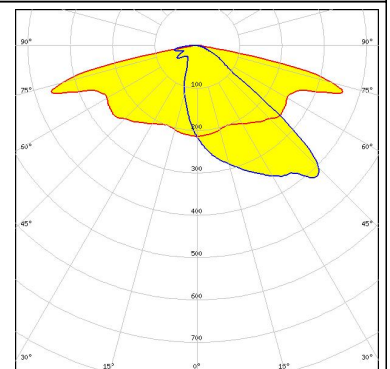
LED Duris S8  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.530 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

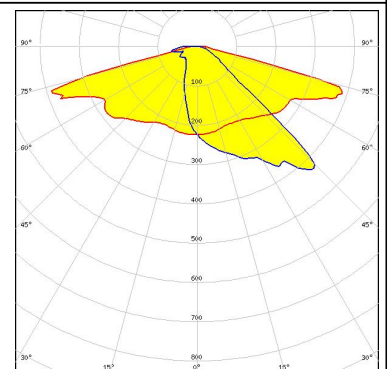
LED OSLO Square CSSRM2/CSSRM3  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.980 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM

Opto Semiconductors

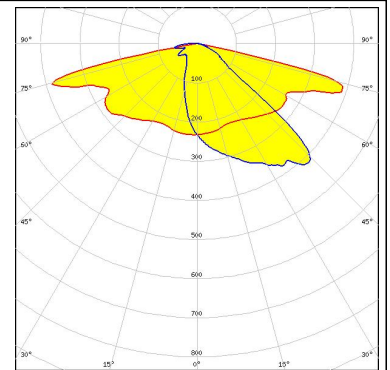
LED OSLO Square PC  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.000 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

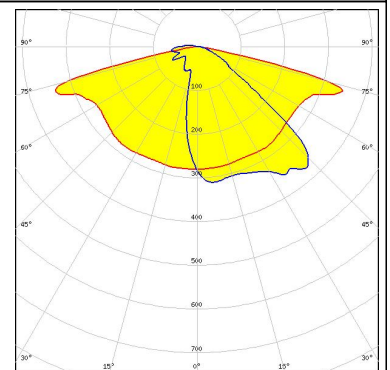
### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 1.100 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



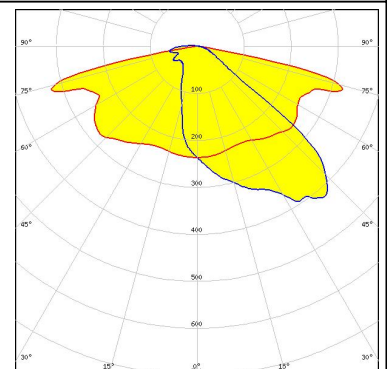
### PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.819 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



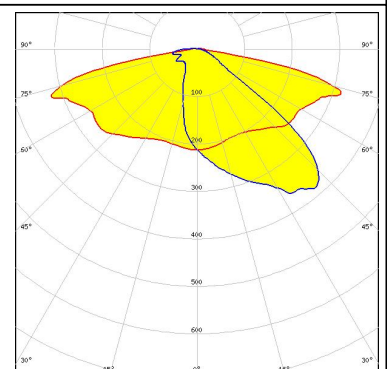
### SAMSUNG

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



### SAMSUNG

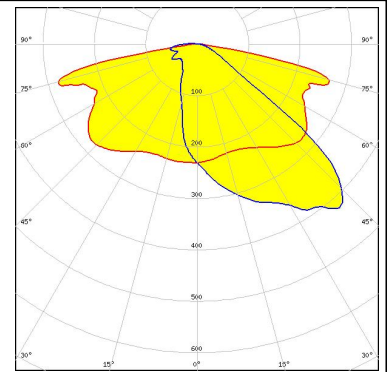
LED LH351B  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.740 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



**PHOTOMETRIC DATA (MEASURED):**

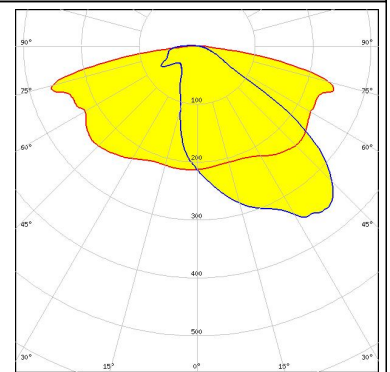
**SAMSUNG**

LED LH351C  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.700 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



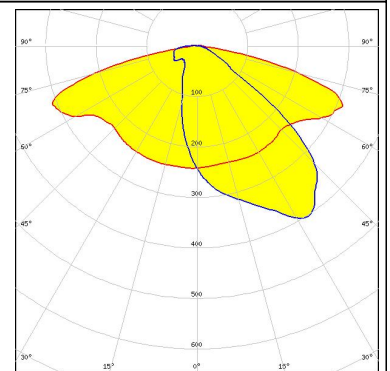
**SAMSUNG**

LED LH351D  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.590 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



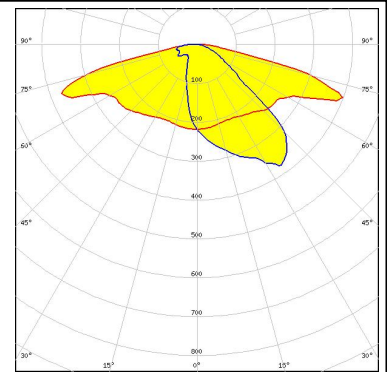
**SAMSUNG**

LED LH508A  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.530 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:


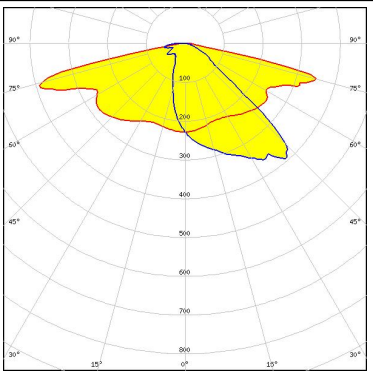

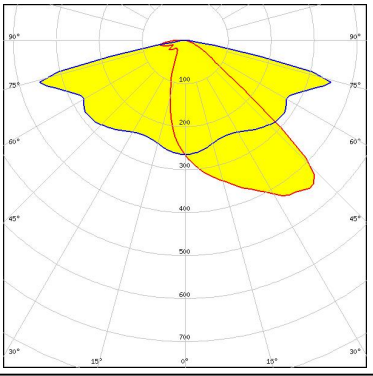

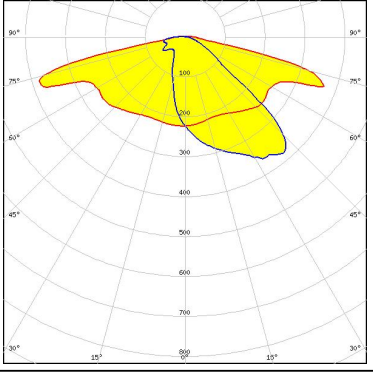

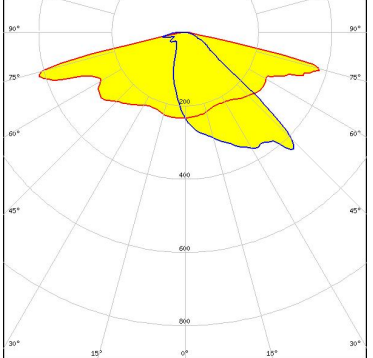


SEOUL SEMICONDUCTOR

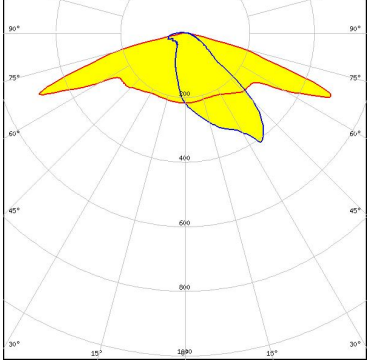
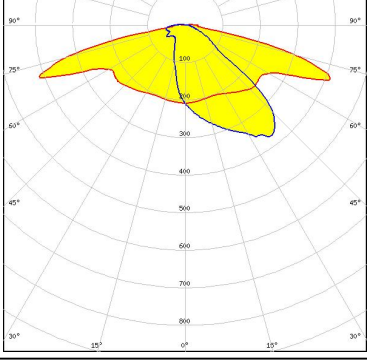
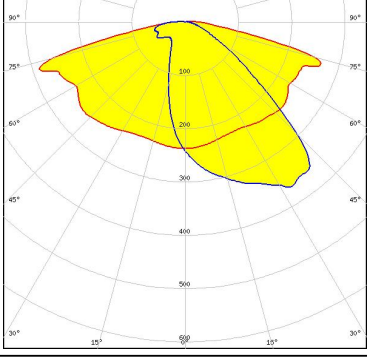
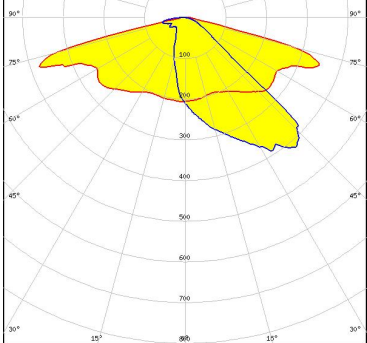
LED Acrich MJT 4040  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.800 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

<p> SEUL SEMICONDUCTOR</p> <p>LED Z5M            FWHM Asymmetric            Efficiency 94 %            Peak intensity 1.000 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>	
<p> SEUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2            FWHM Asymmetric            Efficiency 94 %            Peak intensity 0.800 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>	
<p> SEUL SEMICONDUCTOR</p> <p>LED Z5M3            FWHM Asymmetric            Efficiency 94 %            Peak intensity 0.840 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>	
<p> SEUL SEMICONDUCTOR</p> <p>LED Z5P            FWHM Asymmetric            Efficiency 94 %            Peak intensity 1.000 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>	

#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22 FWHM Asymmetric Efficiency 94 % Peak intensity 0.990 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22P FWHM Asymmetric Efficiency 94 % Peak intensity 0.840 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p><b>TOSHIBA</b> Leading Innovation &gt;&gt;&gt;</p> <p>LED TL1L3 FWHM Asymmetric Efficiency 94 % Peak intensity 0.680 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p><b>TOSHIBA</b> Leading Innovation &gt;&gt;&gt;</p> <p>LED TL1L4 FWHM Asymmetric Efficiency 91 % Peak intensity 0.880 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	



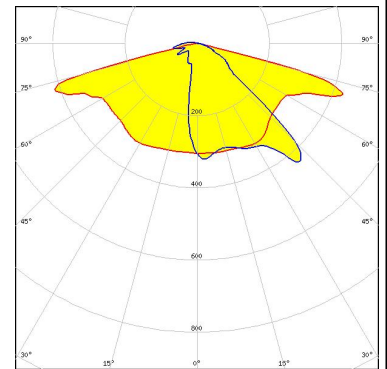
#### PHOTOMETRIC DATA (MEASURED):

#### TRIDONIC

LED RLE 2x4 2000lm HP EXC2 OTD  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

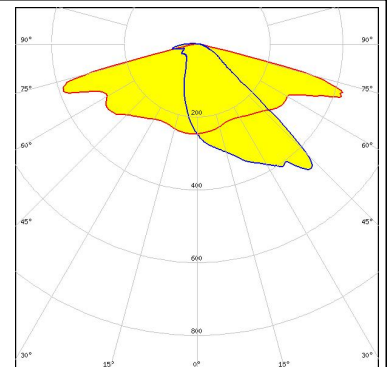
#### TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



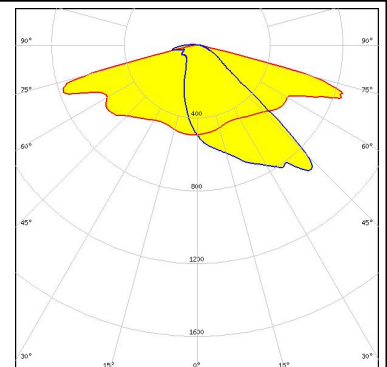
#### TRIDONIC

LED RLE G1 49x121mm 2000lm xxx EXC OTD  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### TRIDONIC

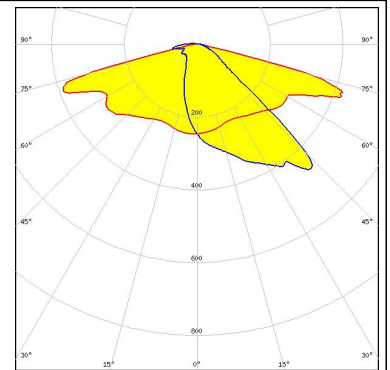
LED RLE G1 49x133mm 2000lm xxx EXC OTD  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

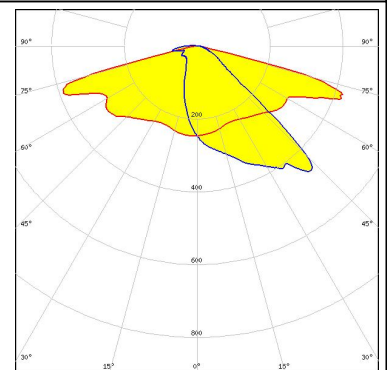
#### TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### TRIDONIC

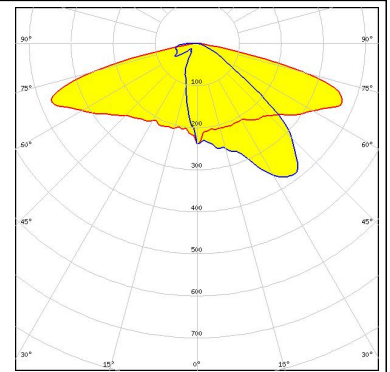
LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 1.100 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



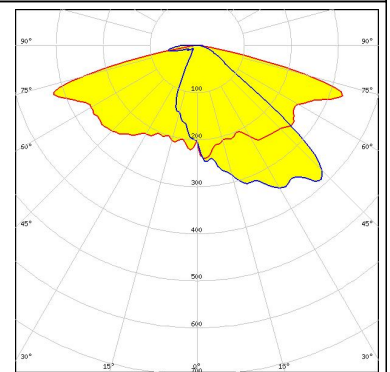
#### PHOTOMETRIC DATA (SIMULATED):



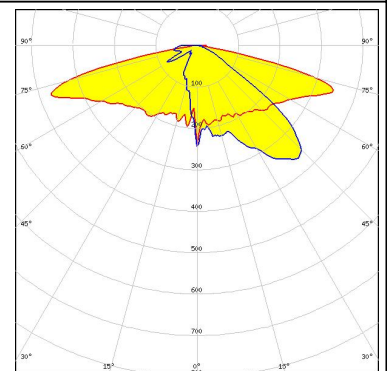
LED J Series 5050  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.570 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XB-H  
 FWHM Asymmetric  
 Efficiency 91 %  
 Peak intensity cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XHP35 HD  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 0.640 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



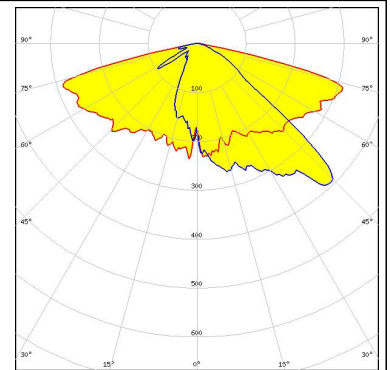
LED XHP35 HI  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### PHOTOMETRIC DATA (SIMULATED):



LED XP-G2  
 FWHM Asymmetric  
 Efficiency 86 %  
 Peak intensity 0.690 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

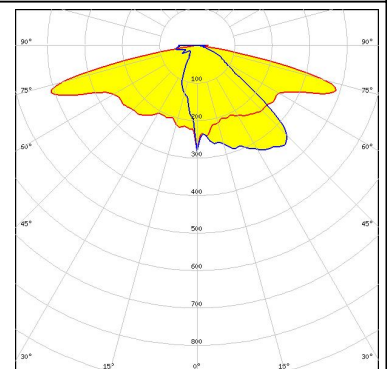
Transparent protective cover



LED XP-G2 HE  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 0.626 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

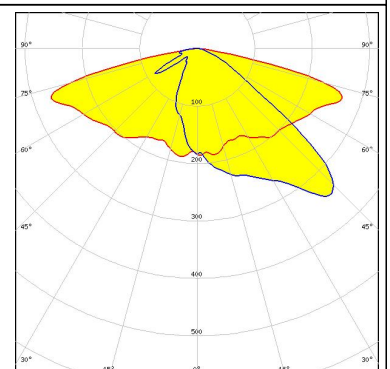


LED XP-G3  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity 0.700 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-G3  
 FWHM Asymmetric  
 Efficiency 78 %  
 Peak intensity 0.458 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Transparent protective cover

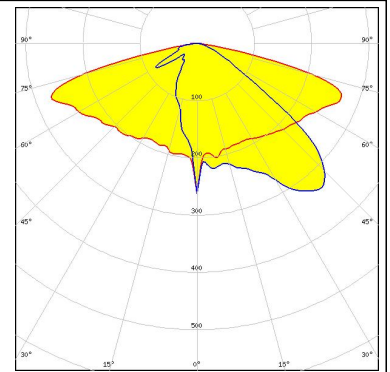


#### PHOTOMETRIC DATA (SIMULATED):

#### CREE

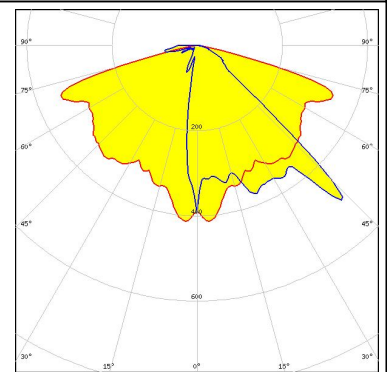
LED XP-L2  
 FWHM Asymmetric  
 Efficiency 80 %  
 Peak intensity 0.440 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Transparent protective cover



#### CREE

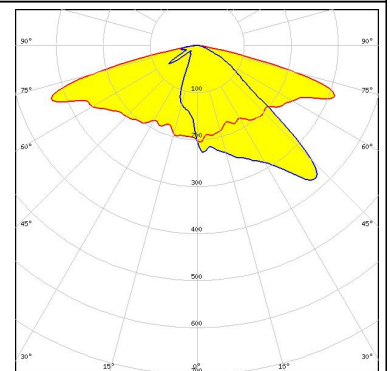
LED XQ-E HD  
 FWHM Asymmetric  
 Efficiency 90 %  
 Peak intensity cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### CREE

LED XT-E  
 FWHM Asymmetric  
 Efficiency 80 %  
 Peak intensity 0.630 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

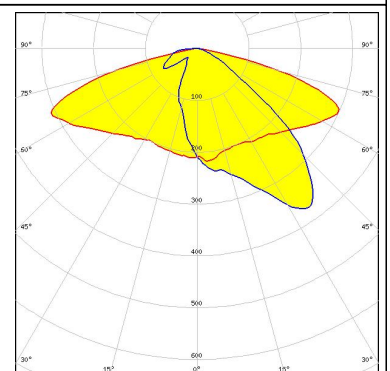
Transparent protective cover



#### LUMILEDS

LED LUXEON 5050 Round LES  
 FWHM Asymmetric  
 Efficiency 84 %  
 Peak intensity 0.482 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

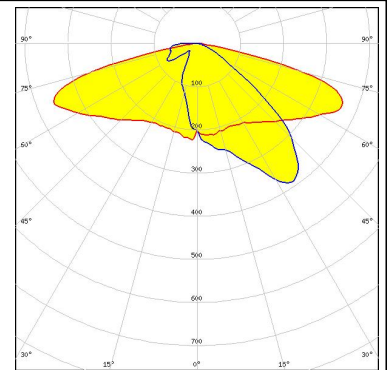
Transparent protective cover



#### PHOTOMETRIC DATA (SIMULATED):

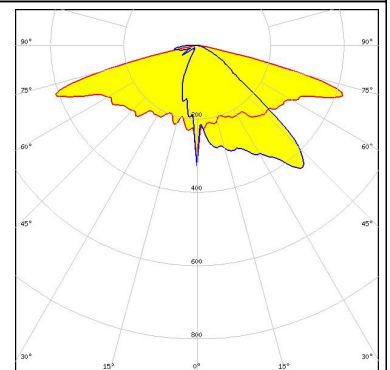
##### LUMILEDS

LED LUXEON 5050 Square LES  
FWHM Asymmetric  
Efficiency 95 %  
Peak intensity 0.562 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



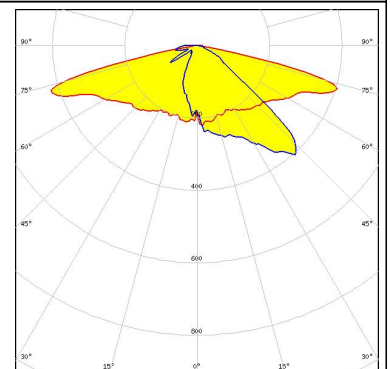
##### LUMILEDS

LED LUXEON H50-2  
FWHM Asymmetric  
Efficiency %  
Peak intensity cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



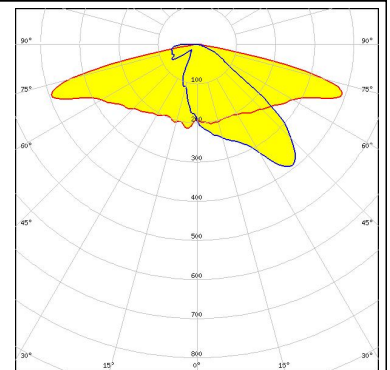
##### LUMILEDS

LED LUXEON V2  
FWHM Asymmetric  
Efficiency 95 %  
Peak intensity 0.853 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

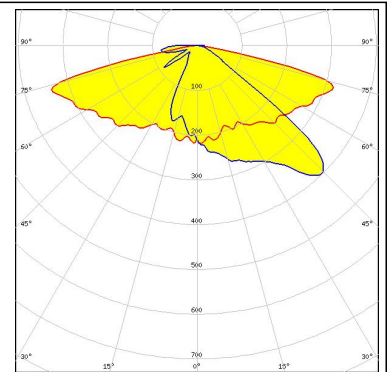
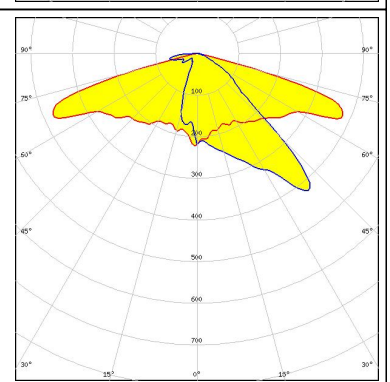
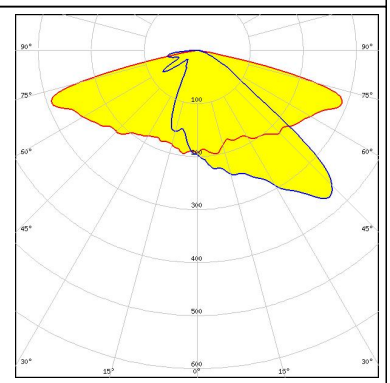
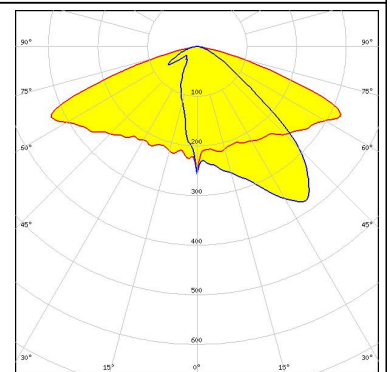


##### NICHIA

LED NV4WB35AM  
FWHM Asymmetric  
Efficiency 94 %  
Peak intensity 0.663 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

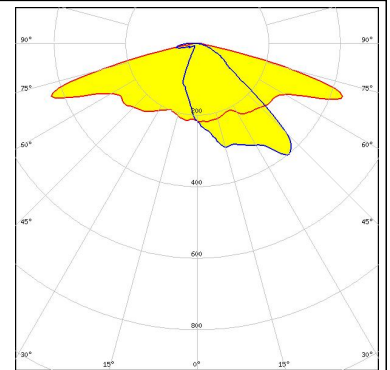
<p><b>NICHIA</b></p> <p>LED NVSW219D            FWHM Asymmetric            Efficiency 92 %            Peak intensity 0.698 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM Asymmetric            Efficiency 83 %            Peak intensity 0.739 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p> <p>Transparent protective cover</p>	
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM Asymmetric            Efficiency 82 %            Peak intensity 0.542 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p> <p>Transparent protective cover</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED Duris S8            FWHM Asymmetric            Efficiency 83 %            Peak intensity 0.520 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p> <p>Transparent protective cover</p>	

#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

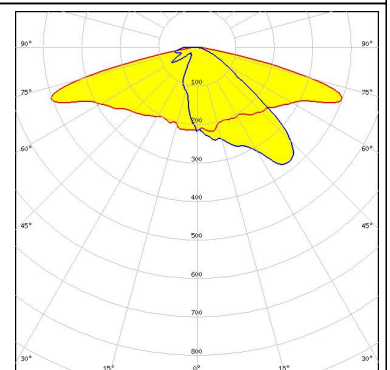
LED OSCONIQ P 3737 (2W version)  
 FWHM Asymmetric  
 Efficiency 92 %  
 Peak intensity 0.740 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (3W version)  
 FWHM Asymmetric  
 Efficiency 94 %  
 Peak intensity 0.680 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

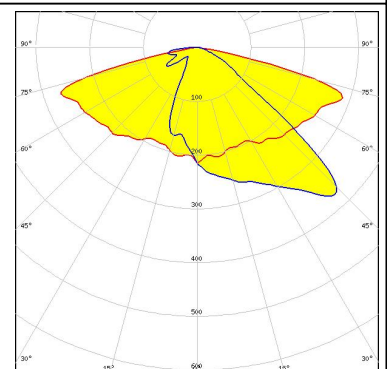


##### OSRAM

Opto Semiconductors

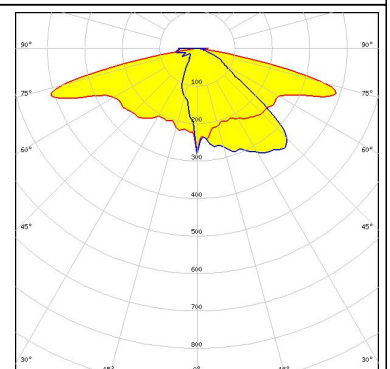
LED OSLON Square CSSRM2/CSSRM3  
 FWHM Asymmetric  
 Efficiency 82 %  
 Peak intensity 0.490 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

Transparent protective cover




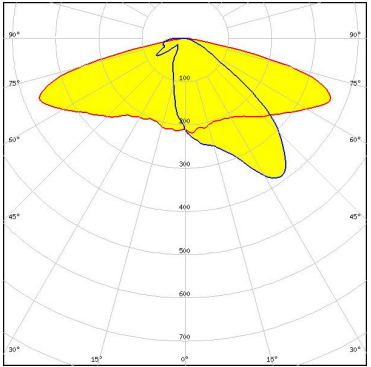

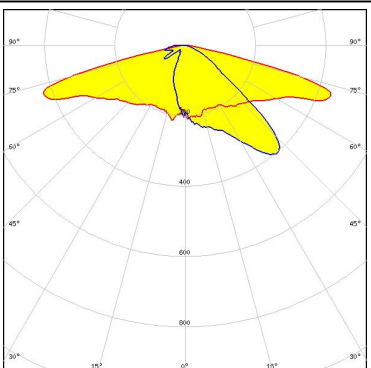
##### PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4  
 FWHM Asymmetric  
 Efficiency 93 %  
 Peak intensity 0.000 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





#### PHOTOMETRIC DATA (SIMULATED):

 SEOUL SEMICONDUCTOR	LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 5050 6V Asymmetric 95 % 0.558 cd/lm 1 White	
 SEOUL SEMICONDUCTOR	LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z5M3 Asymmetric 95 % 0.886 cd/lm 1 White	

#### 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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