# STRADA-2X2-VSM

**IESNA Type V (square) beam for wide areas lighting such as car parks**




## TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | 50.0 x 50.0 mm |
| Height | 6.1 mm |
| Fastening | glue, pin, screw |
| ROHS compliant | yes |

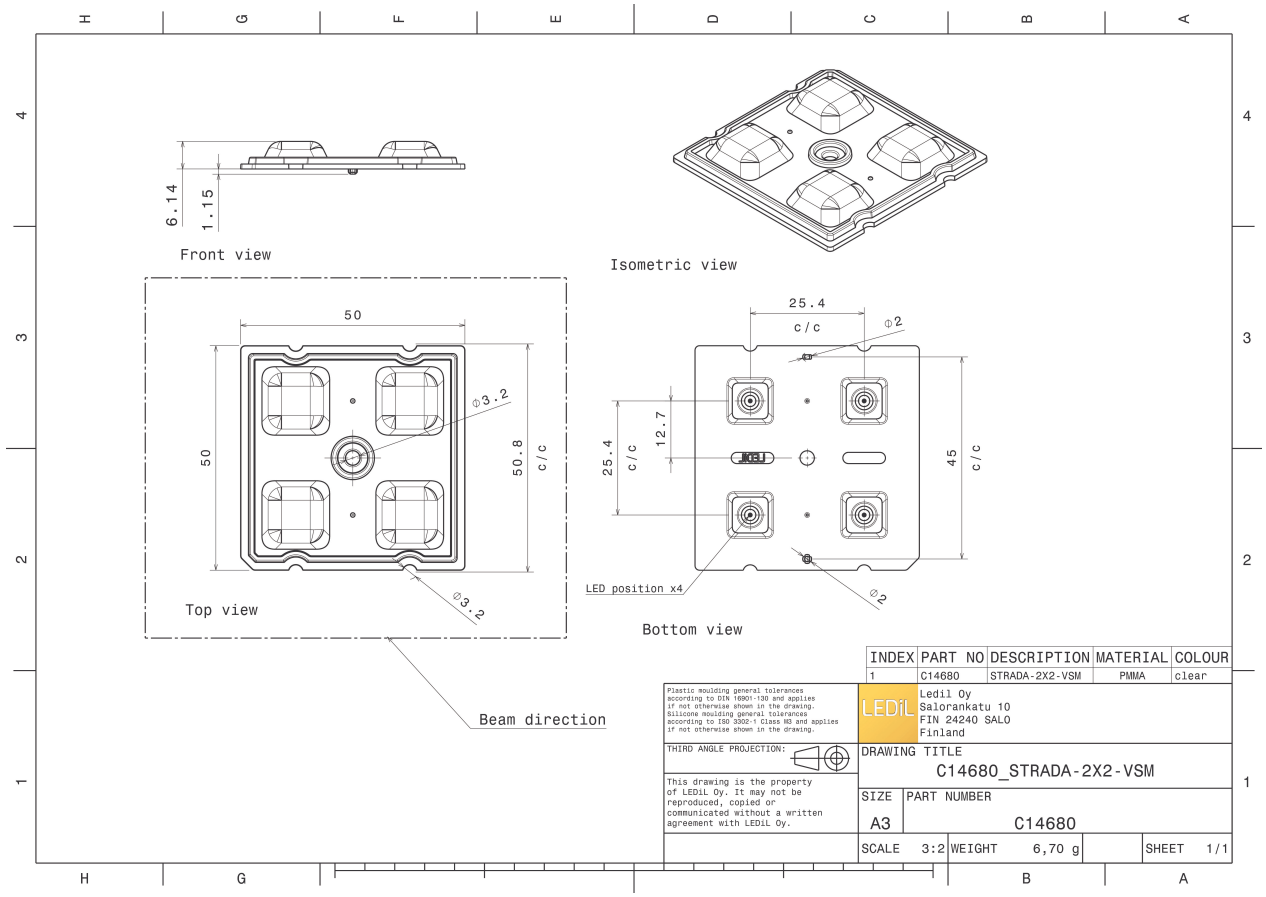
## MATERIAL SPECIFICATIONS:

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

## ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C14680_STRADA-2X2-VSM<br>» Box size: 480 x 280 x 300 mm | 800 | 160 | 160 | 6.2 |


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| INDEX | PART NO | DESCRIPTION | MATERIAL | COLOUR |
|---|---|---|---|---|
| 1 | C14680 | STRADA-2X2-VSM | PMMA | clear |

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

THIRD ANGLE PROJECTION:

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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
C14680_STRADA-2X2-VSM

| SIZE | PART NUMBER | | |
|---|---|---|---|
| A3 | C14680 | | |
| SCALE 3:2 | WEIGHT 6,70 g | | SHEET 1/1 |

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

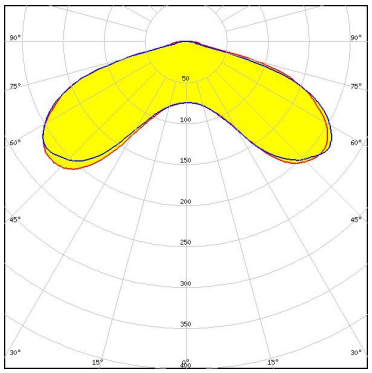

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## PHOTOMETRIC DATA (MEASURED):

bridgelux

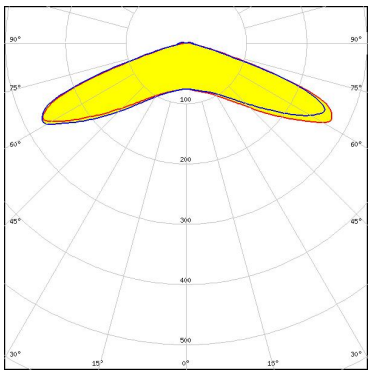
| | |
|---|---|
| LED | Bridgelux SMD 5050 |
| FWHM / FWTM | 149.0° / 158.0° |
| Efficiency | 94 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |





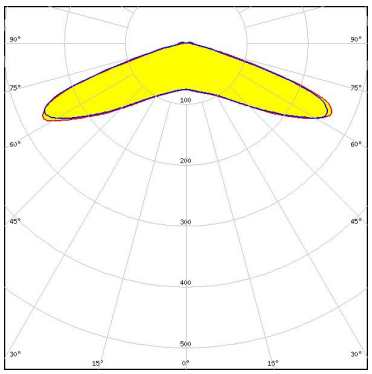
COMET ELECTRONICS

| | |
|---|---|
| LED | QUICK FLUX XTP 2x4 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



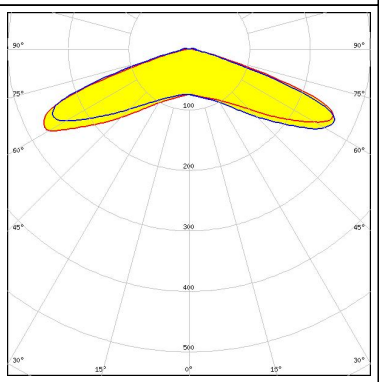
COMET ELECTRONICS

| | |
|---|---|
| LED | QUICK FLUX XTP 2x6 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



COMET ELECTRONICS

| | |
|---|---|
| LED | QUICK FLUX XTP 2x8 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |




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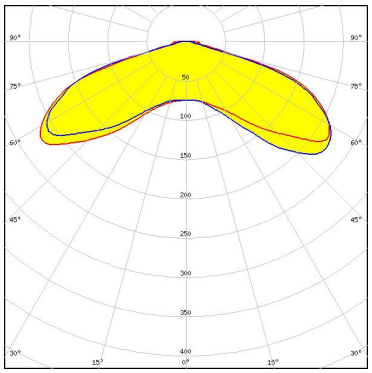
## PHOTOMETRIC DATA (MEASURED):

CREE LED

| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | 149.0° / 159.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 4 |
| Light colour | White |

Required components:

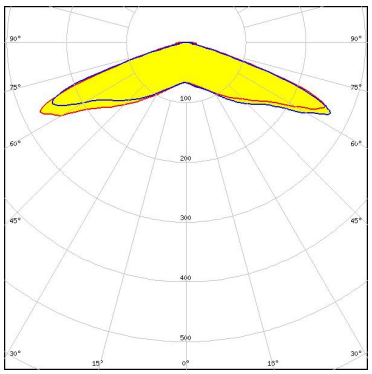




CREE LED

| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

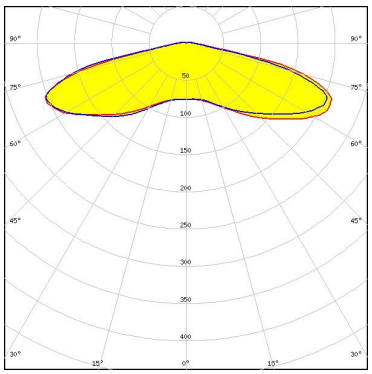
Required components:



CREE LED

| | |
|---|---|
| LED | XHP35 HD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

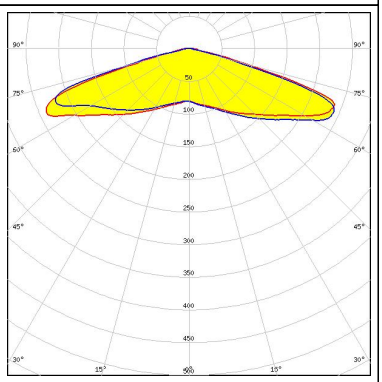
Required components:



CREE LED

| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | 151.0° / 161.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:




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## PHOTOMETRIC DATA (MEASURED):

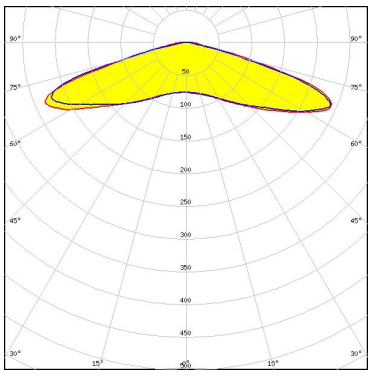
CREE LED

| | |
|---|---|
| LED | XP-G2 HE |
| FWHM / FWTM | 152.0° / 160.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

CREE LED

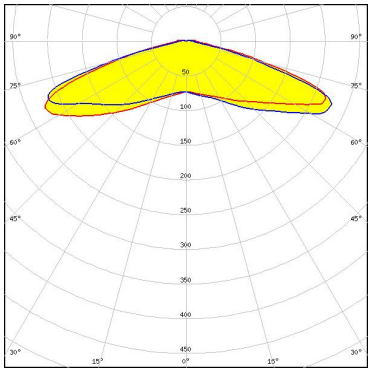
| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |





CREE LED

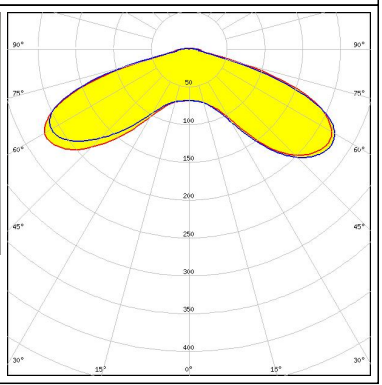
| | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | 152.0° / 170.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 Round LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |





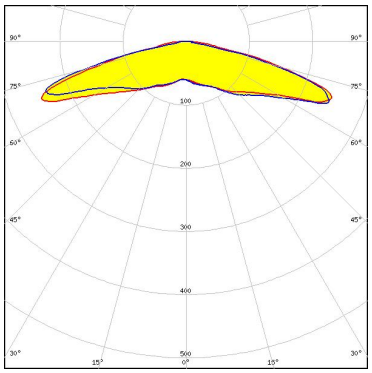

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## PHOTOMETRIC DATA (MEASURED):

LUMILEDS

| | |
|---|---|
| LED | LUXEON C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | PC Amber |

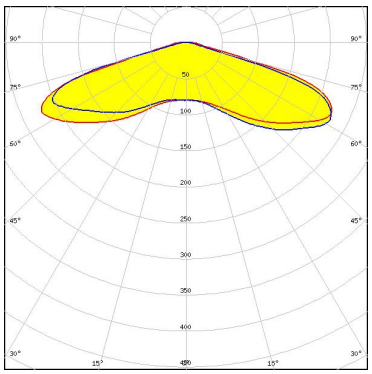
Required components:



LUMILEDS

| | |
|---|---|
| LED | LUXEON V |
| FWHM / FWTM | 151.0° / 167.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

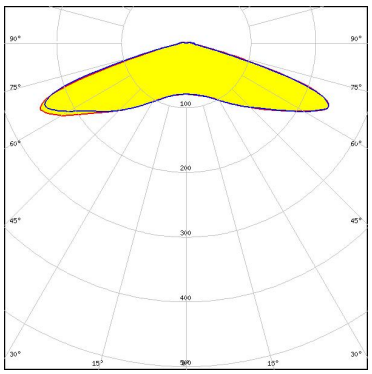
Required components:



LUMILEDS

| | |
|---|---|
| LED | LUXEON V2 |
| FWHM / FWTM | 147.0° / 158.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

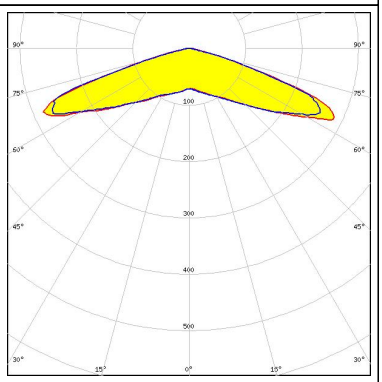
Required components:



LUMINUS

| | |
|---|---|
| LED | SST-10-B130 |
| FWHM / FWTM | 144.0° / 157.0° |
| Efficiency | 97 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | Deep Red |

Required components:

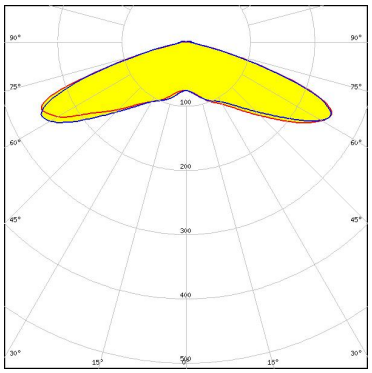



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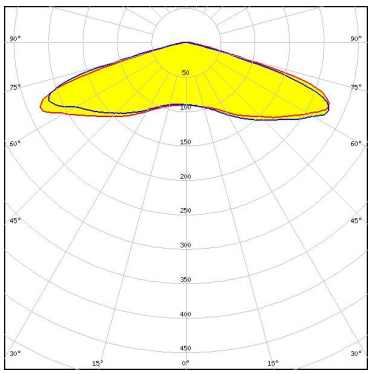
MST Your solutions

| | |
|---|---|
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 98 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



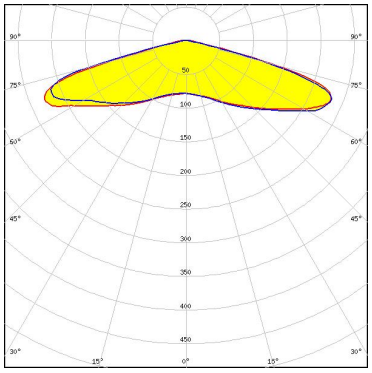
NICHIA

| | |
|---|---|
| LED | NVSW219D |
| FWHM / FWTM | 152.0° / 163.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



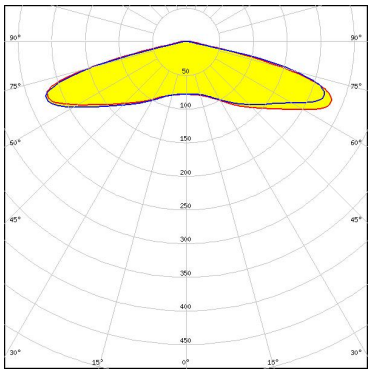
NICHIA

| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | 151.0° / 160.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



NICHIA

| | |
|---|---|
| LED | NVSW319B |
| FWHM / FWTM | 156.0° / 164.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



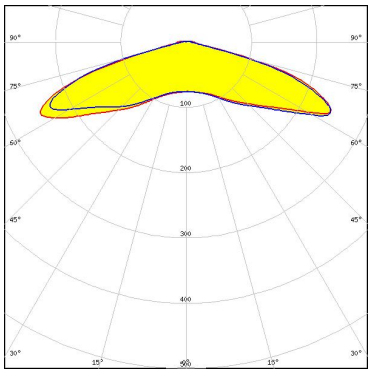

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## PHOTOMETRIC DATA (MEASURED):

NICHIA

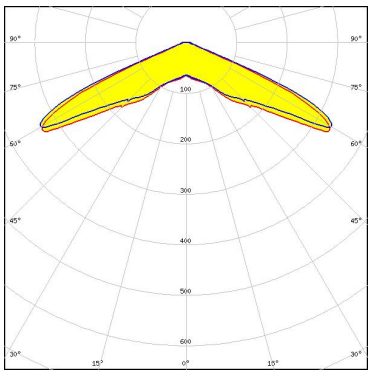
| | |
|---|---|
| LED | NVSW3x9A |
| FWHM / FWTM | 152.0° / 161.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |





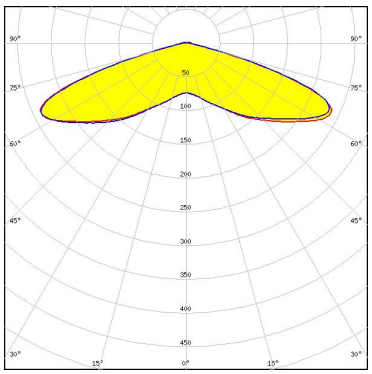
NICHIA

| | |
|---|---|
| LED | NVSxE21A |
| FWHM / FWTM | 134.0° / 144.0° |
| Efficiency | 94 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



OSRAM

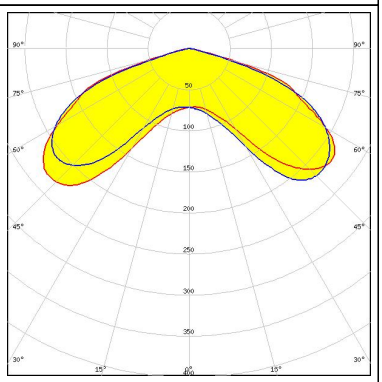
| | |
|---|---|
| LED | PL-BRICK HP 3800 2x8 SSG |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | 141.0° / 153.0° |
| Efficiency | 88 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

Protective plate, glass

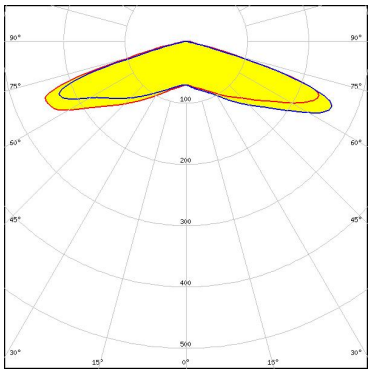



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## PHOTOMETRIC DATA (MEASURED):

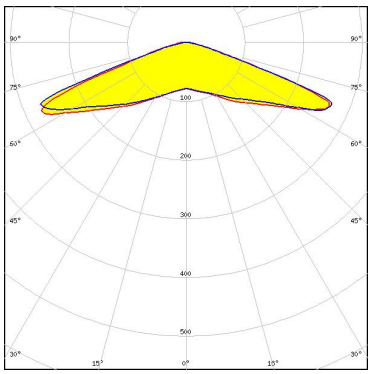
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | 148.0° / 159.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



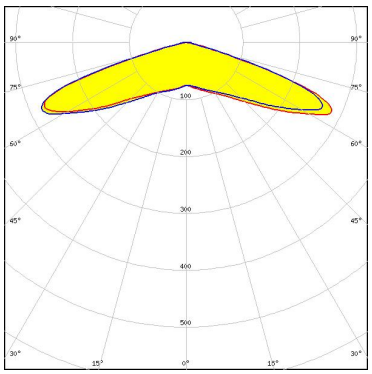
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square PC |
| FWHM / FWTM | 143.0° / 160.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



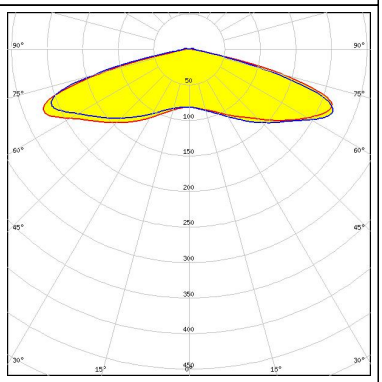
PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4 |
| FWHM / FWTM | 146.0° / 156.0° |
| 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 / FWTM | 152.0° / 160.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

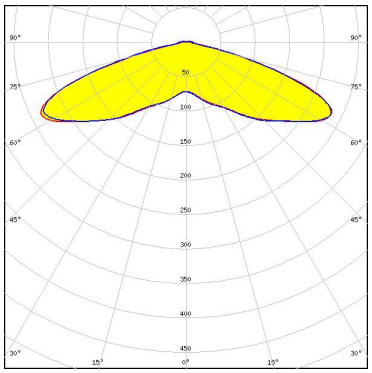



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## PHOTOMETRIC DATA (MEASURED):

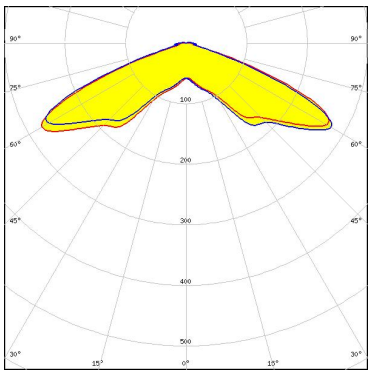
**PHILIPS**

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G5 |
| FWHM / FWTM | 146.0° / 156.0° |
| Efficiency | 97 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



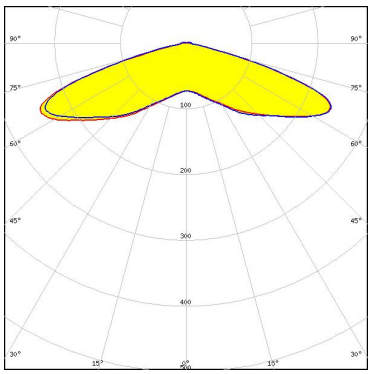
**SAMSUNG**

| | |
|---|---|
| LED | HiLOM RC12 Z (LH181B) |
| FWHM / FWTM | 138.0° / 148.0° |
| Efficiency | 99 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



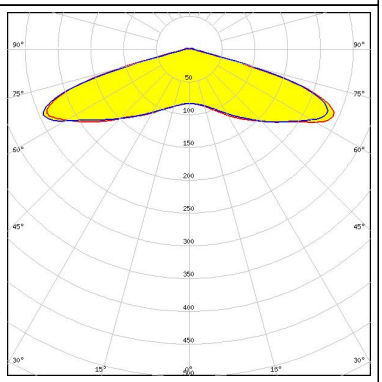
**SAMSUNG**

| | |
|---|---|
| LED | HiLOM RH12 Z (LH351C) |
| FWHM / FWTM | 147.0° / 156.0° |
| Efficiency | 97 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**SAMSUNG**

| | |
|---|---|
| LED | HiLOM RH16 (LH351C) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



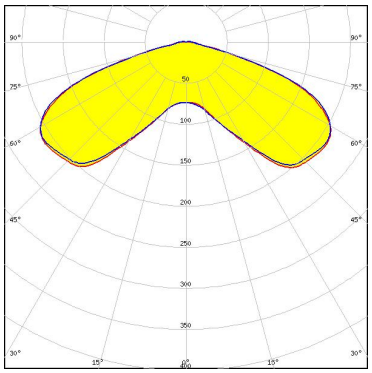

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

## PHOTOMETRIC DATA (MEASURED):

SAMSUNG

| | |
|---|---|
| LED | HiLOM RM12 Z (LH502C) |
| FWHM / FWTM | 144.0° / 157.0° |
| Efficiency | 97 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

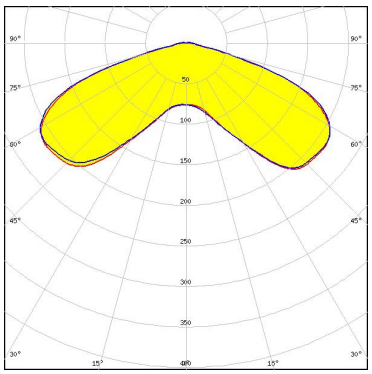
Required components:



SAMSUNG

| | |
|---|---|
| LED | HiLOM RM16 Z (LH502C) |
| FWHM / FWTM | 144.0° / 156.0° |
| Efficiency | 98 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

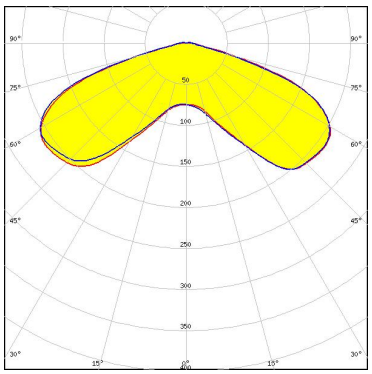
Required components:



SAMSUNG

| | |
|---|---|
| LED | HiLOM RM8 Z (LH502C) |
| FWHM / FWTM | 144.0° / 157.0° |
| Efficiency | 97 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

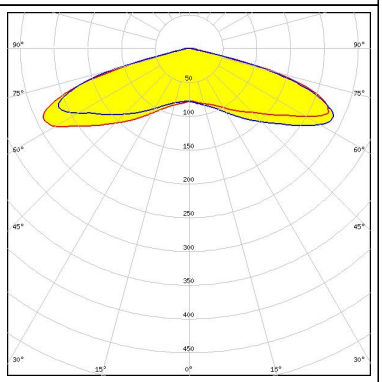
Required components:



SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | 153.0° / 161.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

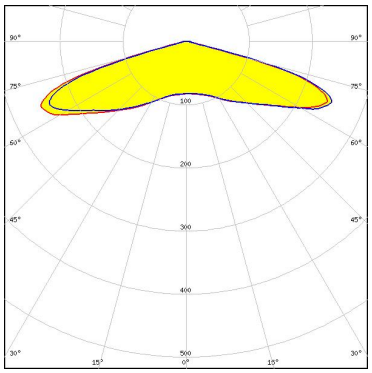



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## PHOTOMETRIC DATA (MEASURED):

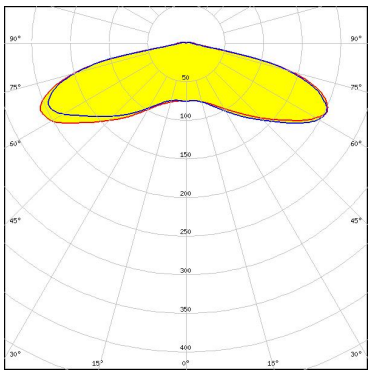
SAMSUNG

| | |
|---|---|
| LED | LH351C |
| FWHM / FWTM | 149.0° / 157.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



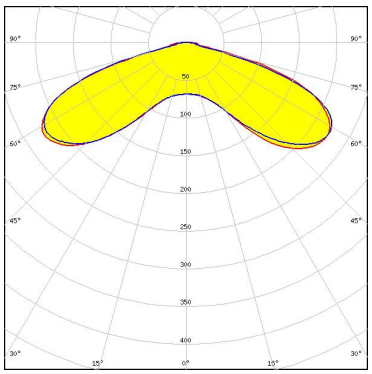
SAMSUNG

| | |
|---|---|
| LED | LH351D |
| FWHM / FWTM | 156.0° / 162.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



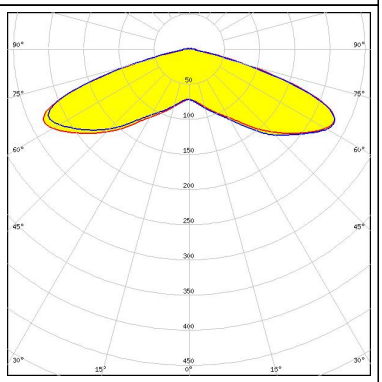
SAMSUNG

| | |
|---|---|
| LED | LH508A |
| FWHM / FWTM | 146.0° / 157.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



SEITEC Elektronik GmbH

| | |
|---|---|
| LED | LED-Pa-L15c2W11c2-xxx-C050-01 |
| FWHM / FWTM | 146.0° / 156.0° |
| Efficiency | 98 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



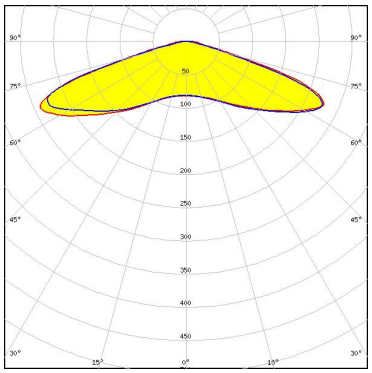

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## PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

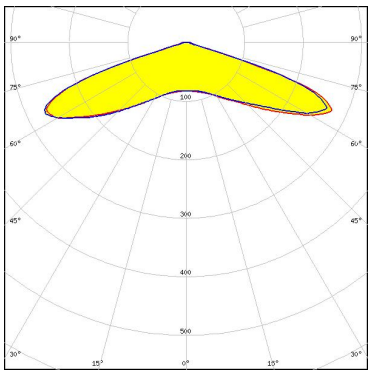
Required components:



SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M4 |
| FWHM / FWTM | 144.0° / 149.0° |
| Efficiency | 98 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

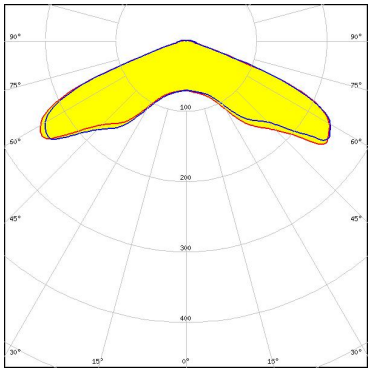


SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22 |
| FWHM / FWTM | 141.0° / 151.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

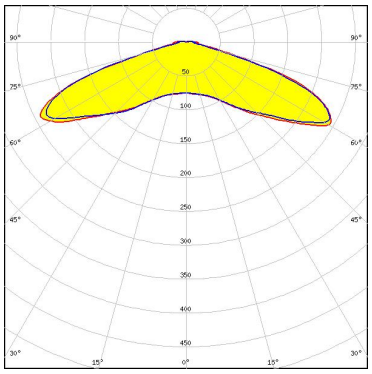




SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22P |
| FWHM / FWTM | 146.0° / 161.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:




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## PHOTOMETRIC DATA (MEASURED):

**TRIDONIC**

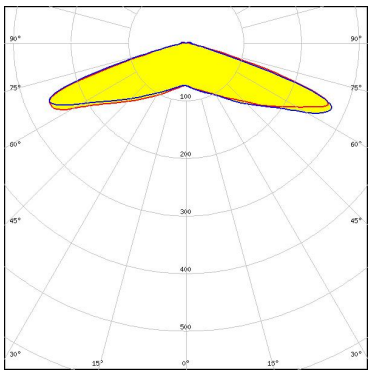
| | |
|---|---|
| LED | RLE 2x4 2000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

**TRIDONIC**

| | |
|---|---|
| LED | RLE 2x8 4000lm HP EXC2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

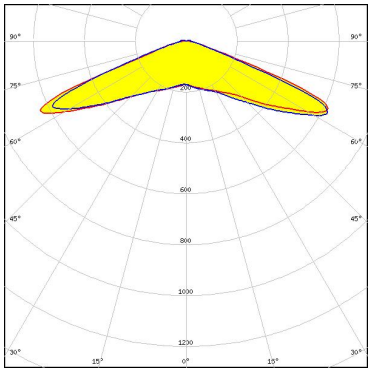
Required components:



**TRIDONIC**

| | |
|---|---|
| LED | RLE G1 49x121mm 2000lm xxx EXC OTD |
| FWHM / FWTM | 139.0° / 155.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

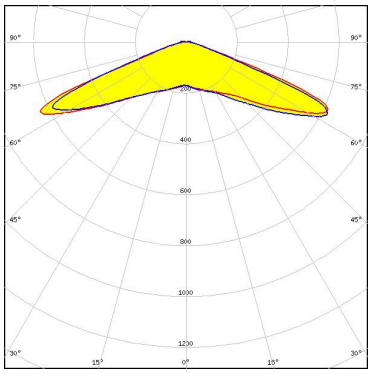
Required components:



**TRIDONIC**

| | |
|---|---|
| LED | RLE G1 49x133mm 2000lm xxx EXC OTD |
| FWHM / FWTM | 139.0° / 155.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

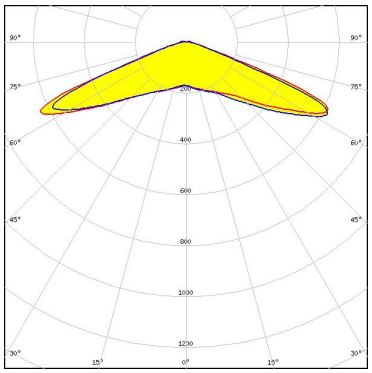



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## PHOTOMETRIC DATA (MEASURED):

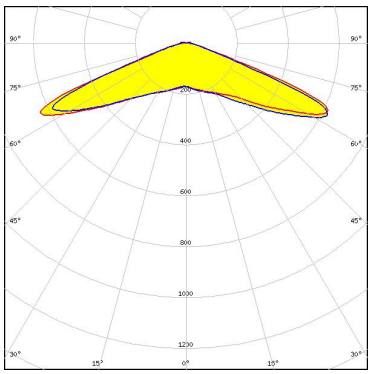
TRIDONIC

| | |
|---|---|
| LED | RLE G1 49x223mm 4000lm xxx EXC OTD |
| FWHM / FWTM | 139.0° / 155.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



TRIDONIC

| | |
|---|---|
| LED | RLE G1 49x245mm 4000lm xxx EXC OTD |
| FWHM / FWTM | 139.0° / 155.0° |
| Efficiency | 94 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |




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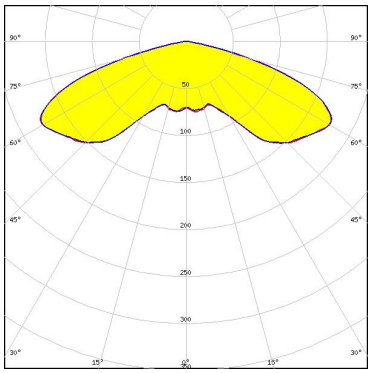
## PHOTOMETRIC DATA (SIMULATED):

CREE LED

| | |
|---|---|
| LED | J Series 5050 Square LES 30V |
| FWHM / FWTM | 146.0° / 160.0° |
| Efficiency | 74 % |
| Peak intensity | 0.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

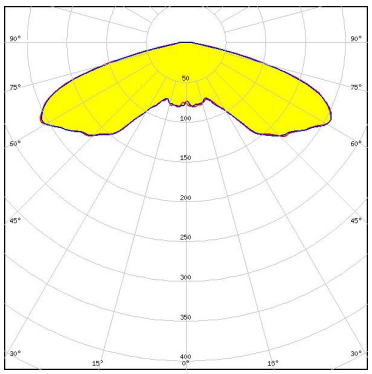
Protective plate, glass



CREE LED

| | |
|---|---|
| LED | J Series 5050 Square LES 30V |
| FWHM / FWTM | 150.0° / 162.0° |
| Efficiency | 91 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

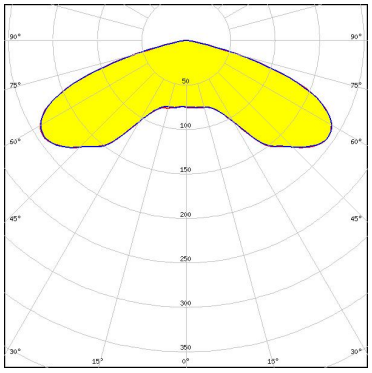


CREE LED

| | |
|---|---|
| LED | J Series 5050 Square LES 6V |
| FWHM / FWTM | 144.0° / 158.0° |
| Efficiency | 80 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

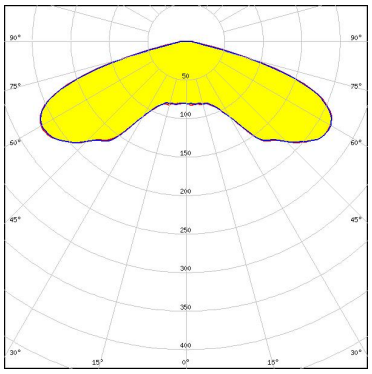
Protective plate, glass



CREE LED

| | |
|---|---|
| LED | J Series 5050 Square LES 6V |
| FWHM / FWTM | 148.0° / 160.0° |
| Efficiency | 97 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

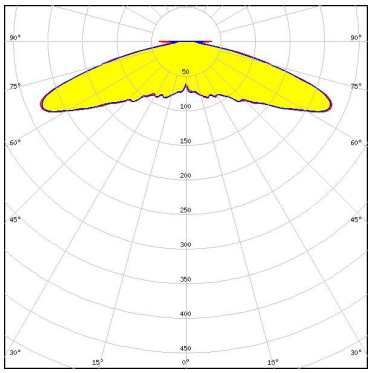



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## PHOTOMETRIC DATA (SIMULATED):

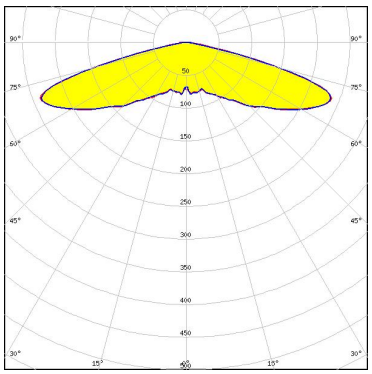
CREE LED

| | |
|---|---|
| LED | XB-D |
| FWHM / FWTM | 151.0° / 180.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



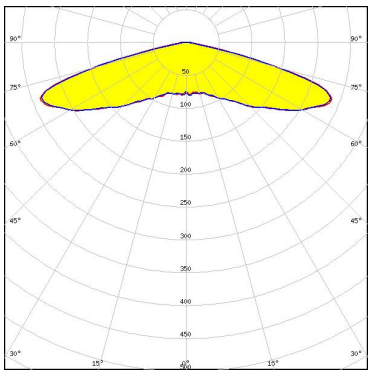
CREE LED

| | |
|---|---|
| LED | XM-L |
| FWHM / FWTM | 152.0° / 161.0° |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



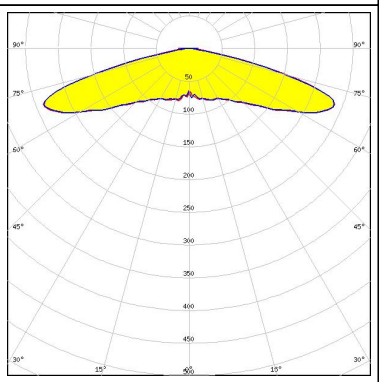
CREE LED

| | |
|---|---|
| LED | XM-L2 |
| FWHM / FWTM | 152.0° / 160.0° |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



CREE LED

| | |
|---|---|
| LED | XP-G |
| FWHM / FWTM | 152.0° / 163.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |




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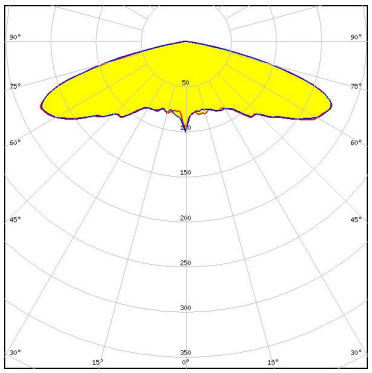
## PHOTOMETRIC DATA (SIMULATED):

CREE LED

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | 150.0° / 161.0° |
| Efficiency | 74 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

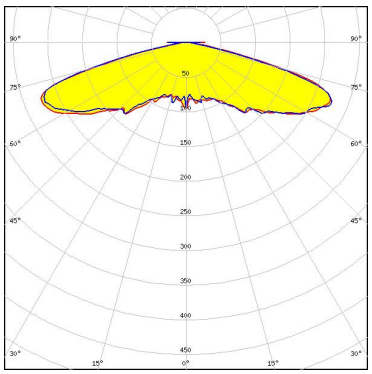
Protective plate, glass



CREE LED

| | |
|---|---|
| LED | XP-L2 |
| FWHM / FWTM | 151.0° / 161.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

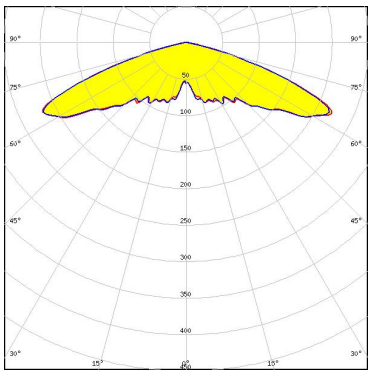


CREE LED

| | |
|---|---|
| LED | XP-P |
| FWHM / FWTM | 144.0° / 156.0° |
| Efficiency | 78 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Protective plate, glass

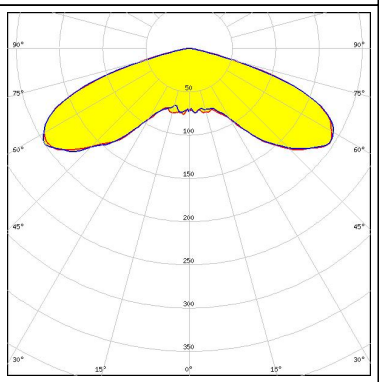


LUMILEDS

| | |
|---|---|
| LED | LUXEON 5050 Round LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 81 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

Protective plate, glass

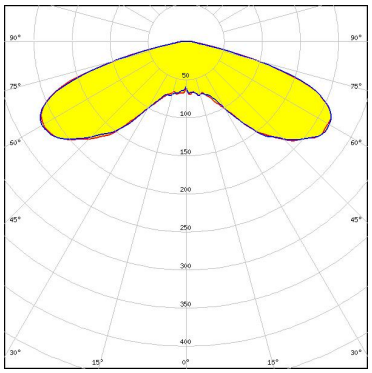



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## PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

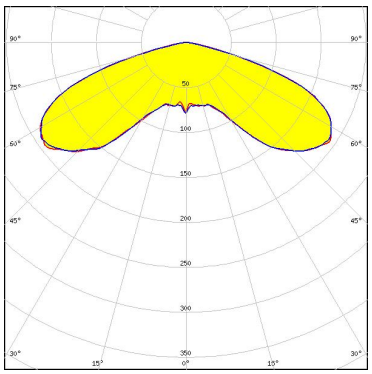
| | |
|---|---|
| LED | LUXEON 5050 Square LES |
| FWHM / FWTM | 148.0° / 161.0° |
| Efficiency | 96 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

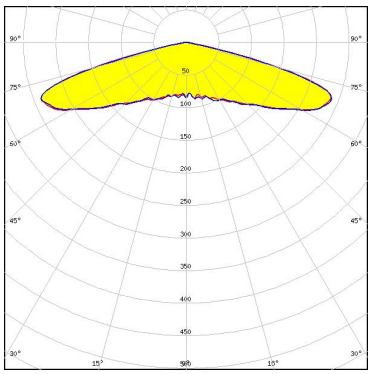
| | |
|---|---|
| LED | LUXEON 5050 Square LES |
| FWHM / FWTM | Asymmetric |
| Efficiency | 80 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

Protective plate, glass



LUMILEDS

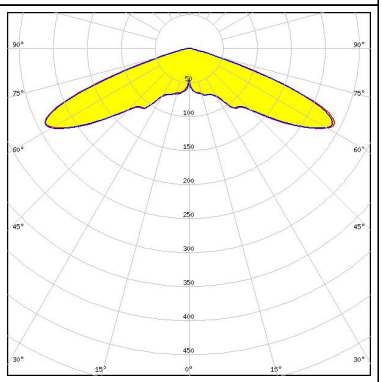
| | |
|---|---|
| LED | LUXEON HL2X |
| FWHM / FWTM | 150.0° / 158.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2Z |
| FWHM / FWTM | 140.0° / 152.0° |
| Efficiency | 80 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

Protective plate, glass

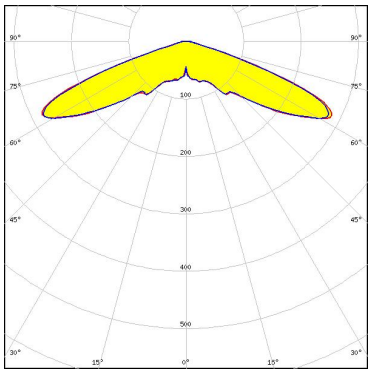



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## PHOTOMETRIC DATA (SIMULATED):

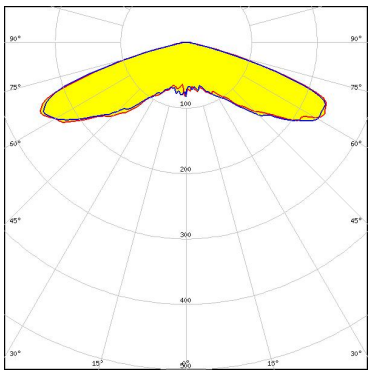
LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2Z |
| FWHM / FWTM | 142.0° / 152.0° |
| Efficiency | 95 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



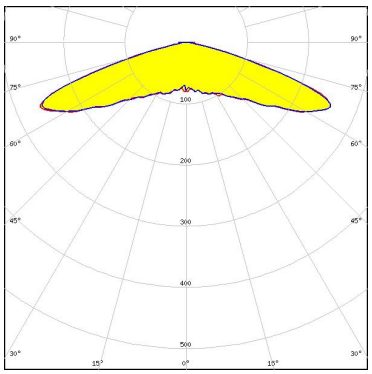
LUMILEDS

| | |
|---|---|
| LED | LUXEON MZ |
| FWHM / FWTM | 146.0° / 157.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



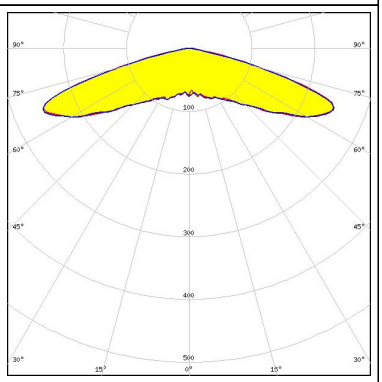
LUMILEDS

| | |
|---|---|
| LED | LUXEON Rebel ES |
| FWHM / FWTM | 146.0° / 158.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

| | |
|---|---|
| LED | LUXEON T |
| FWHM / FWTM | 150.0° / 160.0° |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

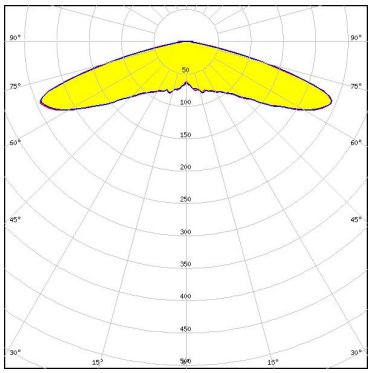



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## PHOTOMETRIC DATA (SIMULATED):

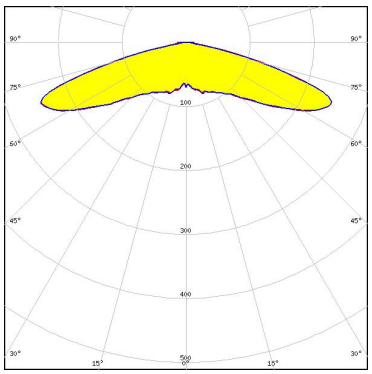
LUMILEDS

| | |
|---|---|
| LED | LUXEON TX |
| FWHM / FWTM | 150.0° / 160.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

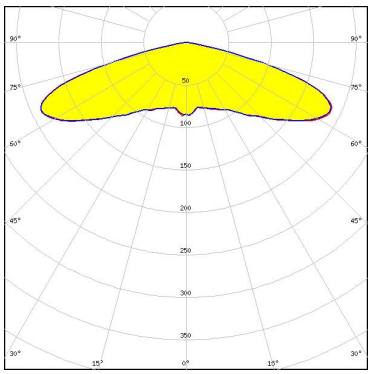
| | |
|---|---|
| LED | LUXEON TX |
| FWHM / FWTM | 150.0° / 161.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

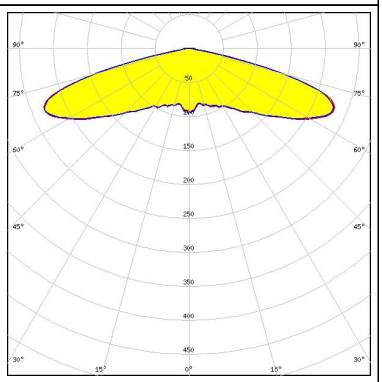
| | |
|---|---|
| LED | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM | 150.0° / 160.0° |
| Efficiency | 76 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

Protective plate, glass



LUMILEDS

| | |
|---|---|
| LED | LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) |
| FWHM / FWTM | 152.0° / 160.0° |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

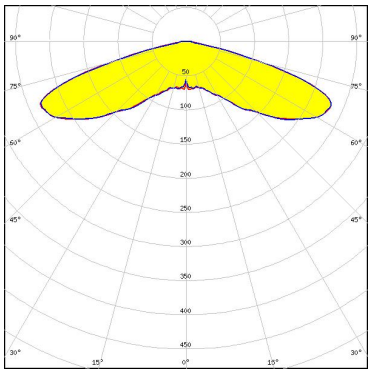



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## PHOTOMETRIC DATA (SIMULATED):

NICHIA

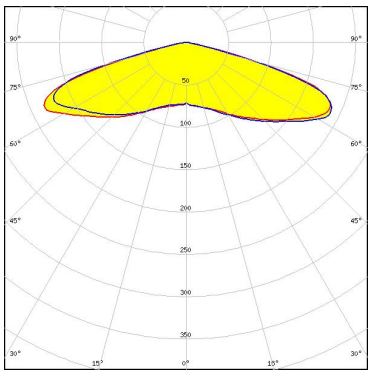
| | |
|---|---|
| LED | NV4WB35AM |
| FWHM / FWTM | 150.0° / 160.0° |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



NICHIA

| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | Asymmetric |
| Efficiency | 77 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

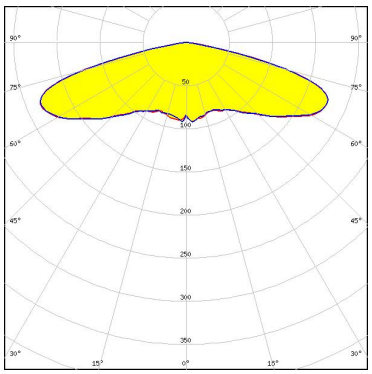
Protective plate, glass



NICHIA

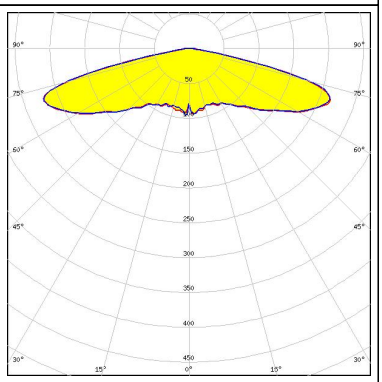
| | |
|---|---|
| LED | NVSW519A |
| FWHM / FWTM | 152.0° / 162.0° |
| Efficiency | 77 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

Protective plate, glass



NICHIA

| | |
|---|---|
| LED | NVSW519A |
| FWHM / FWTM | 154.0° / 163.0 + 162.0° |
| Efficiency | 93 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

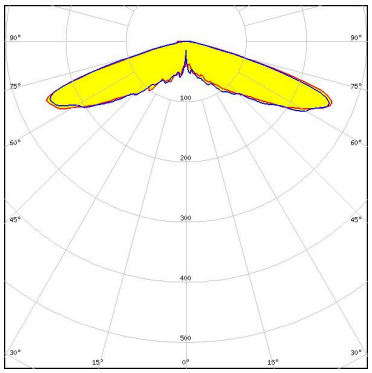



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## PHOTOMETRIC DATA (SIMULATED):

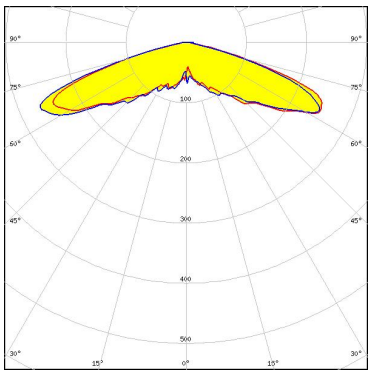
NICHIA

| | |
|---|---|
| LED | NVSxx19B/NVSxx19C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



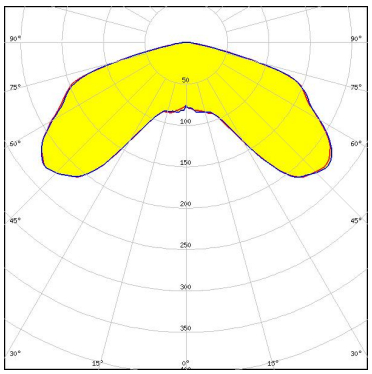
OSRAM

| | |
|---|---|
| LED | PrevaLED Brick HP 2x8 |
| FWHM / FWTM | 146.0° / 160.0° |
| Efficiency | 93 % |
| Peak intensity | 1.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



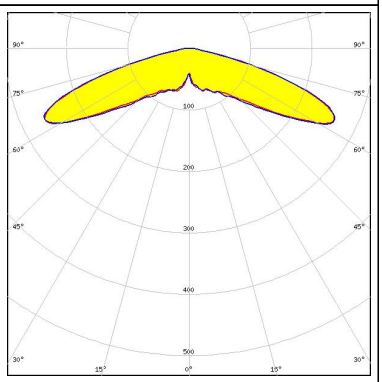
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ C 2424 |
| FWHM / FWTM | 146.0° / 160.0° |
| Efficiency | 95 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 4 |
| Light colour | White |
| Required components: | |



OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3030 |
| FWHM / FWTM | 148.0° / 162.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



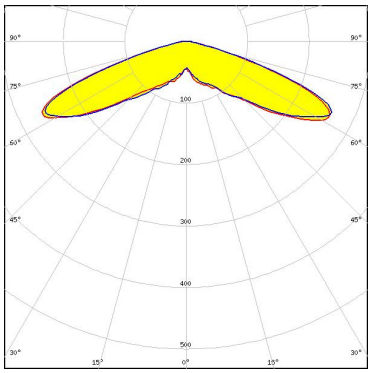

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## PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (2W version) |
| FWHM / FWTM | 144.0° / 158.0° |
| Efficiency | 93 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

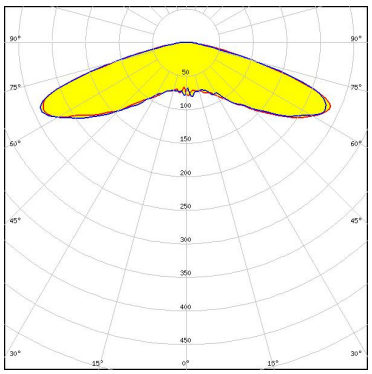
Required components:



OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | 148.0° / 164.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

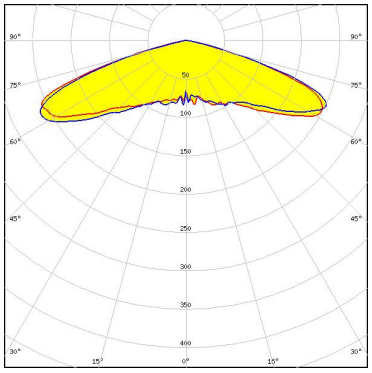


OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | 146.0° / 156.0° |
| Efficiency | 79 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

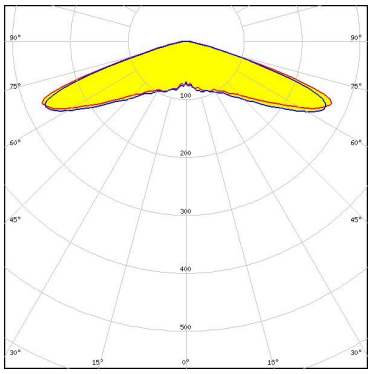
Protective plate, glass



OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square EC |
| FWHM / FWTM | 144.0° / 156.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

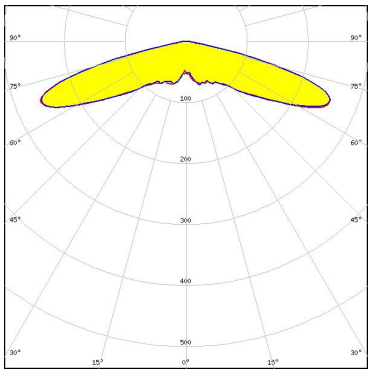



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## PHOTOMETRIC DATA (SIMULATED):

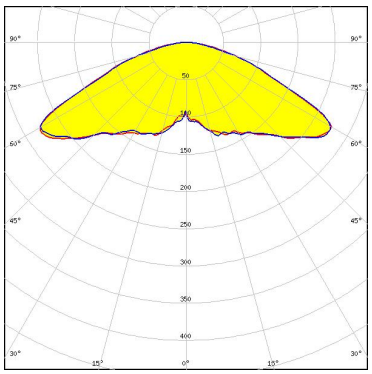
OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 152.0° / 160.0° |
| Efficiency | 96 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



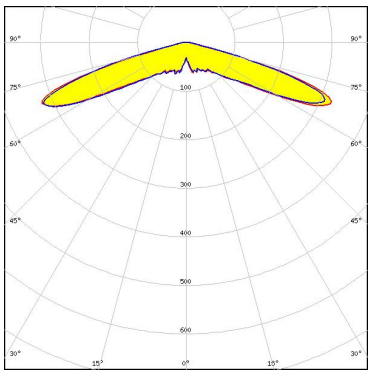
OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 138.0° / 164.0° |
| Efficiency | 95 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



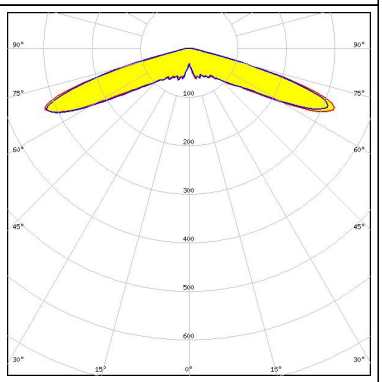
OSRAM Opto Semiconductors

| | |
|---|---|
| LED | SFH 4714A |
| FWHM / FWTM | 148.0° / 156.0° |
| Efficiency | 96 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



OSRAM Opto Semiconductors

| | |
|---|---|
| LED | SFH 4714A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |




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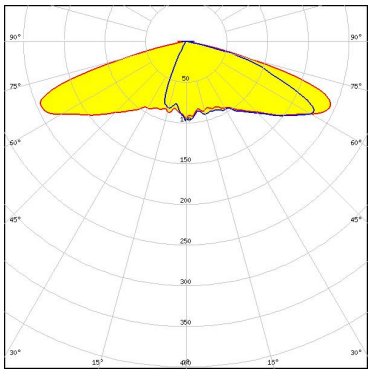
## PHOTOMETRIC DATA (SIMULATED):

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 50 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

C17677_STRADA-2X2-SHD-BLK



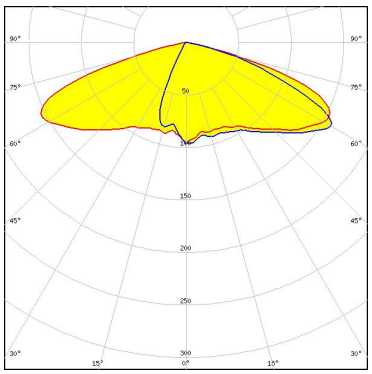
PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 43 % |
| Peak intensity | 0.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

C17677_STRADA-2X2-SHD-BLK

Protective plate, glass

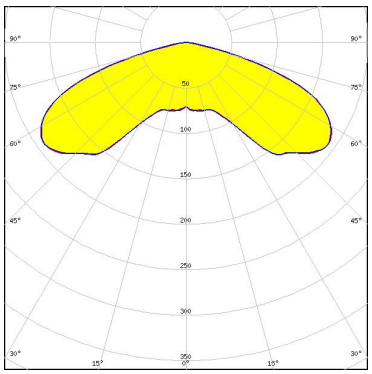


PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA HE |
| FWHM / FWTM | 144.0° / 158.0° |
| Efficiency | 79 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

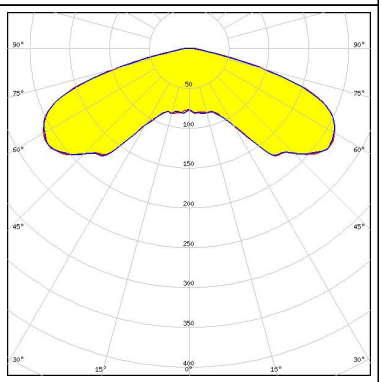
Protective plate, glass



PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA HE |
| FWHM / FWTM | 148.0° / 162.0 + 160.0° |
| Efficiency | 97 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

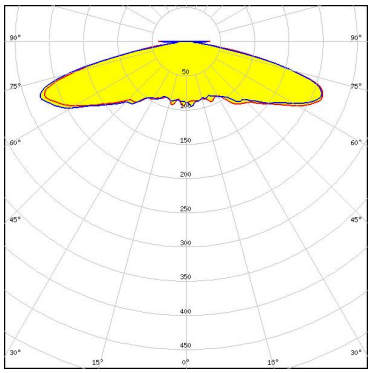



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## PHOTOMETRIC DATA (SIMULATED):

**PHILIPS**

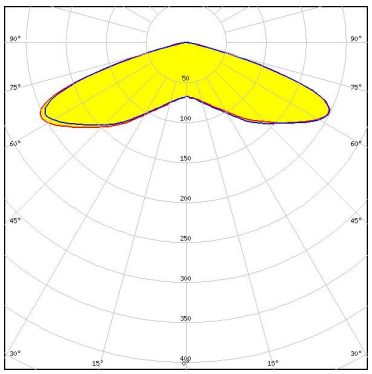
| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DAX G4 |
| FWHM / FWTM | 154.0° / 165.0° |
| Efficiency | 94 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**SAMSUNG**

| | |
|---|---|
| LED | HiLOM RH12 Z (LH351C) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 79 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

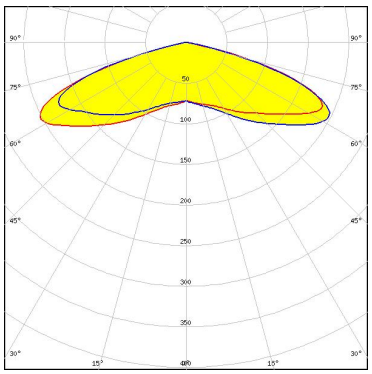
Protective plate, glass



**SAMSUNG**

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 78 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

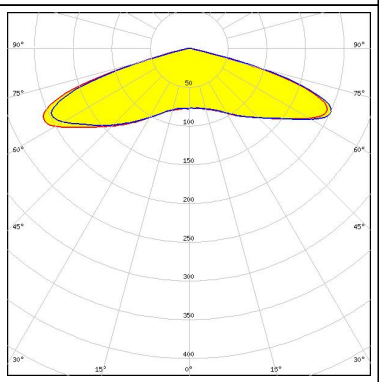
Protective plate, glass



**SAMSUNG**

| | |
|---|---|
| LED | LH351C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 79 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

Protective plate, glass




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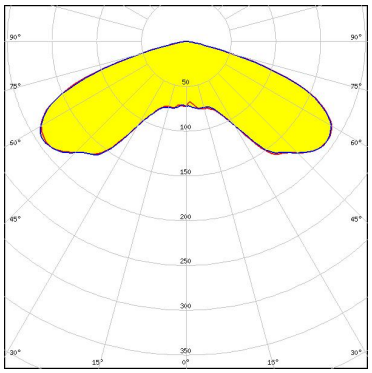
## PHOTOMETRIC DATA (SIMULATED):

SAMSUNG

| | |
|---|---|
| LED | LH502C |
| FWHM / FWTM | 144.0° / 156.0° |
| Efficiency | 80 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

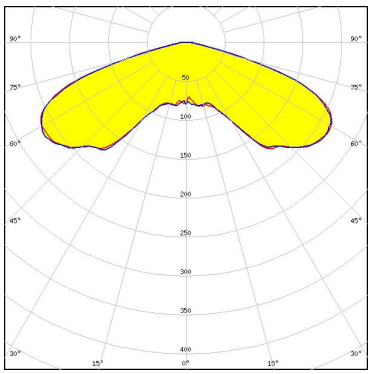
Protective plate, glass



SAMSUNG

| | |
|---|---|
| LED | LH502C |
| FWHM / FWTM | 146.0° / 160.0° |
| Efficiency | 97 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

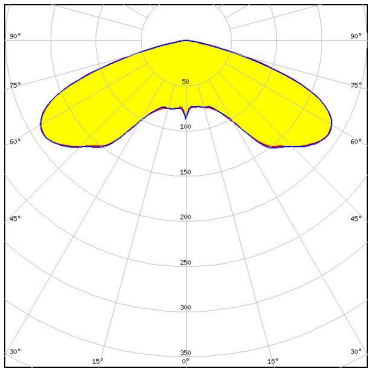


SAMSUNG

| | |
|---|---|
| LED | LH502D |
| FWHM / FWTM | 145.0 + 144.0° / 158.0° |
| Efficiency | 79 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

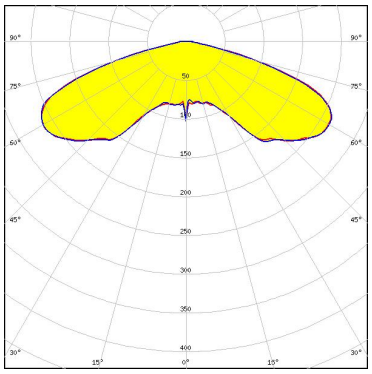
Protective plate, glass



SAMSUNG

| | |
|---|---|
| LED | LH502D |
| FWHM / FWTM | 148.0° / 162.0 + 160.0° |
| Efficiency | 97 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |

Required components:

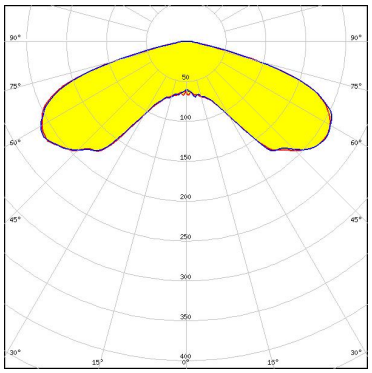



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## PHOTOMETRIC DATA (SIMULATED):

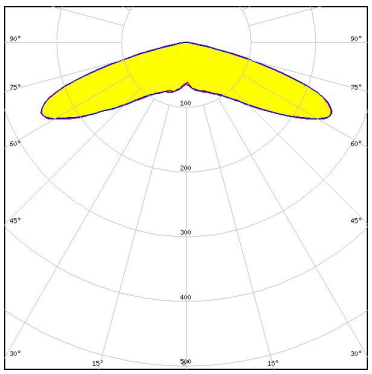
SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | MJT 5050 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 96 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



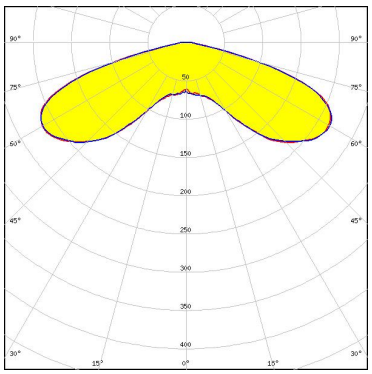
SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | SEOUL DC 3030C |
| FWHM / FWTM | 148.0° / 160.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



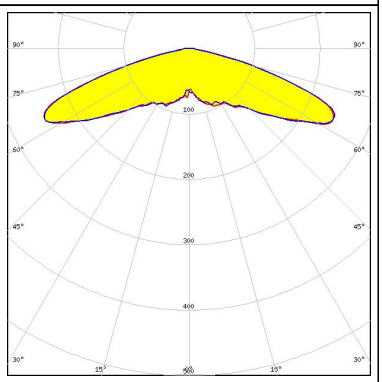
SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | SEOUL DC 5050 6V |
| FWHM / FWTM | 148.0° / 161.0° |
| Efficiency | 96 % |
| Peak intensity | 0.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5 |
| FWHM / FWTM | 147.0° / 160.0° |
| Efficiency | 95 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |




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## 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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