

STRADA-2X2-FS3

Forward throw beam optimized for European tunnels, resulting in extremely efficient lighting with counter-beam method.

SPECIFICATION:

| | |
|----------------|----------------|
| Dimensions | 50.0 x 50.0 mm |
| Height | 12 mm |
| Fastening | pin, screw |
| ROHS compliant | yes ⓘ |

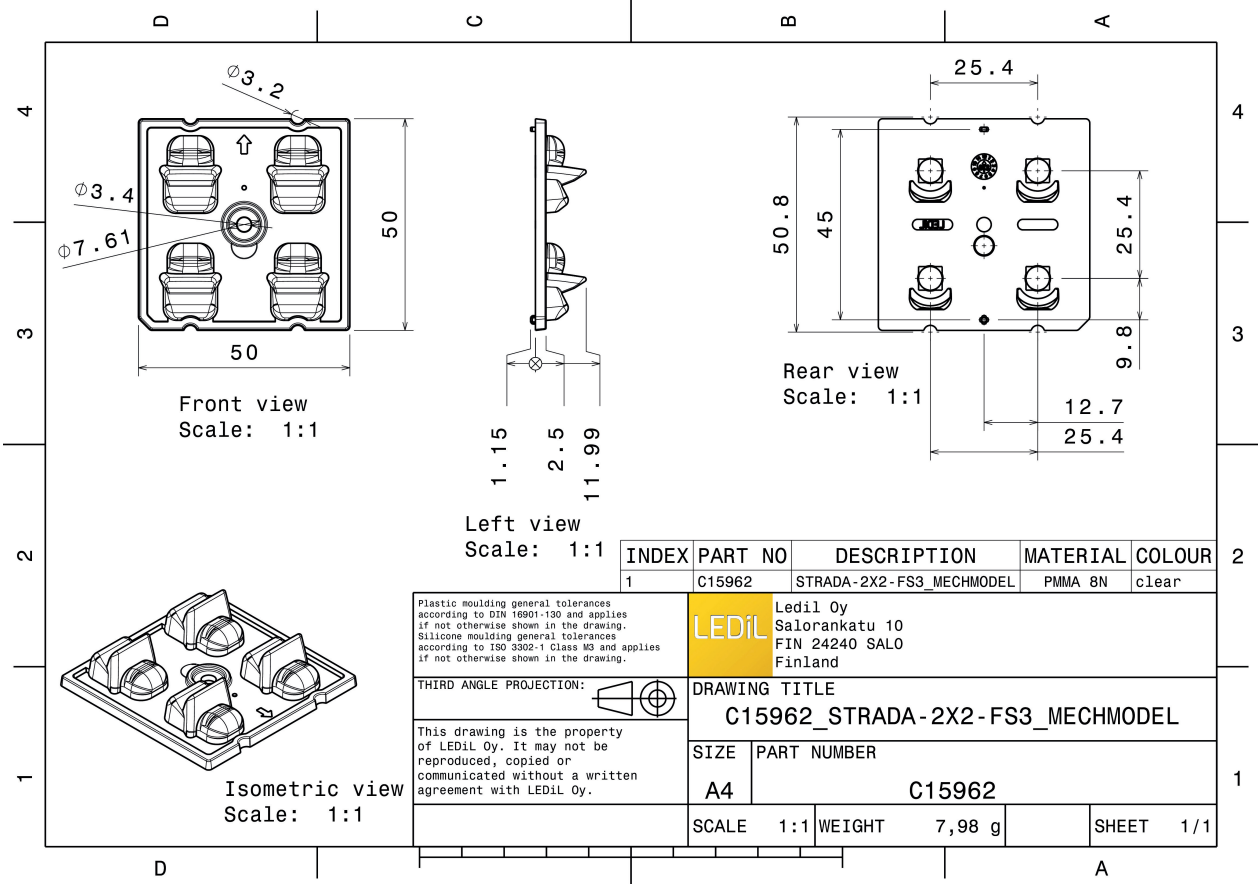


MATERIALS:

| Component | Type | Material | Colour | Finish | Length |
|----------------|------------|----------|--------|--------|--------|
| STRADA-2X2-FS3 | Multi-lens | PMMA | clear | | 50.0 |

ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|------------|-----|-----|-----------------|
| C15962_STRADA-2X2-FS3 » Box size: 480 x 280 x 300 mm | 800 | 160 | 160 | 7.1 |


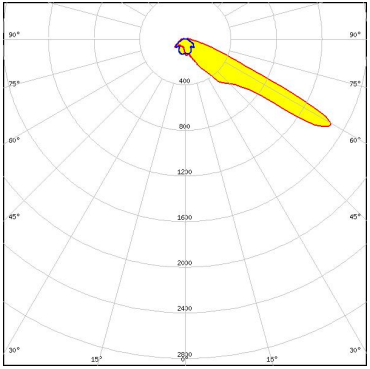


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

COMET ELECTRONICS


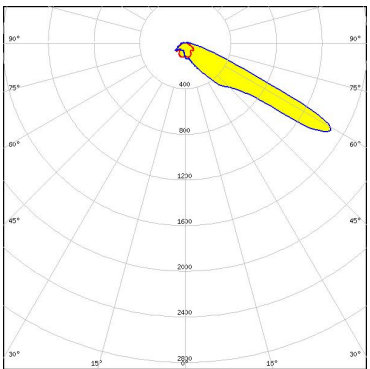
| | |
|----------------------|------------------------------|
| LED | QUICK FLUX XTP 2x4 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

COMET ELECTRONICS

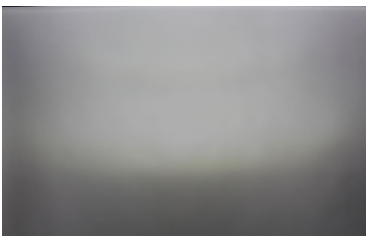
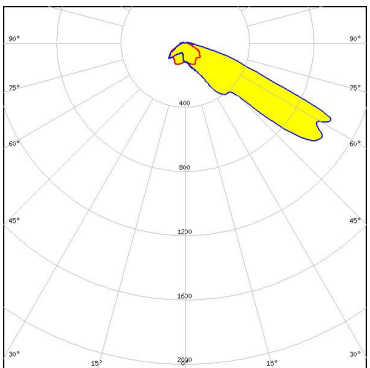
| | |
|----------------------|------------------------------|
| LED | QUICK FLUX XTP 2x6 xxx LS G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

CREE LEDs

| | |
|----------------------|------------|
| LED | XD16 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 4 |
| Light colour/type | White |
| Required components: | |

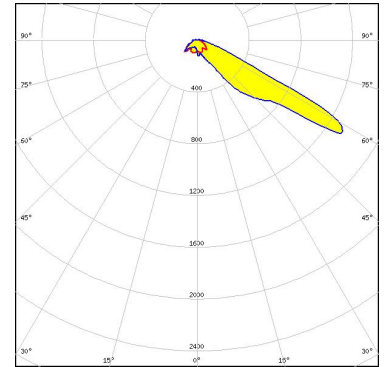



Light distribution files

OPTICAL RESULTS (MEASURED):



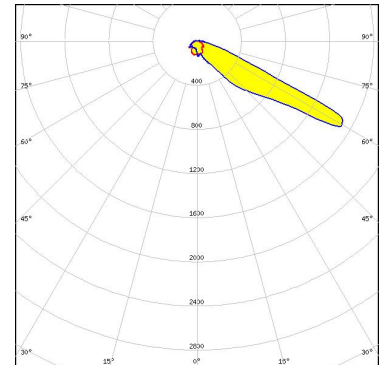
LED XD16
FWHM / FWTM Asymmetric
Efficiency 91 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



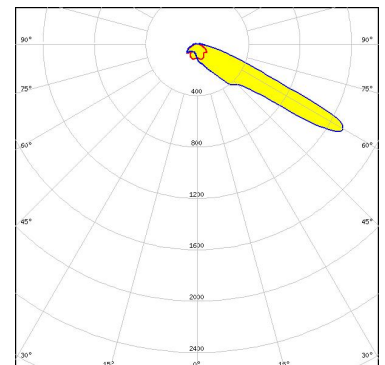
LED XP-G2
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G3
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

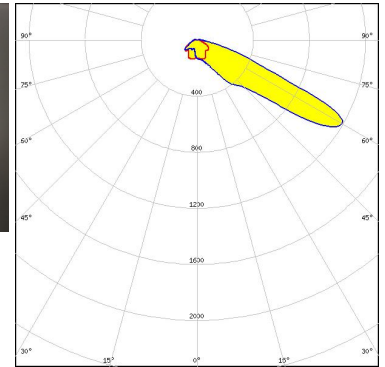
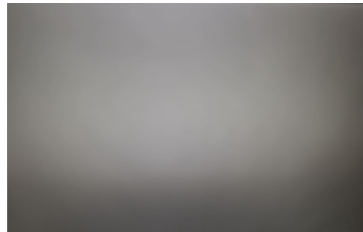


Light distribution files

OPTICAL RESULTS (MEASURED):



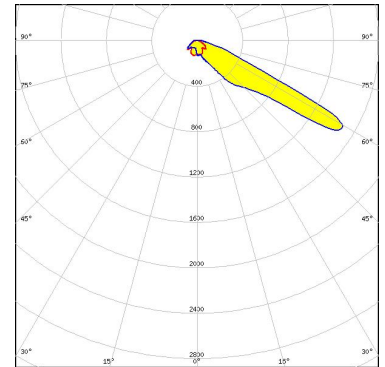
LED LUXEON V
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



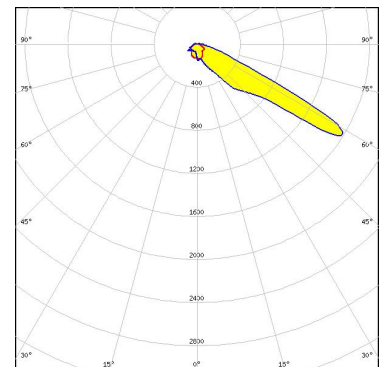
LED LUXEON V2
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED RecLED 122x50mm 1900lm 730 2x4 Opt G1
FWHM / FWTM Asymmetric
Efficiency 95 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

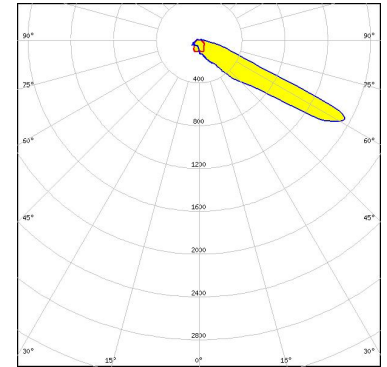


Light distribution files

OPTICAL RESULTS (MEASURED):



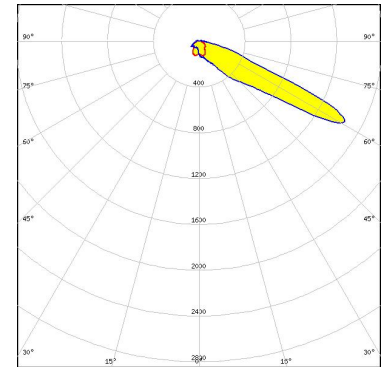
LED NVSW219F
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



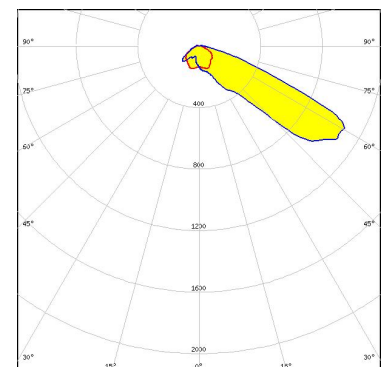
LED NVSW319B
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Duris S8
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

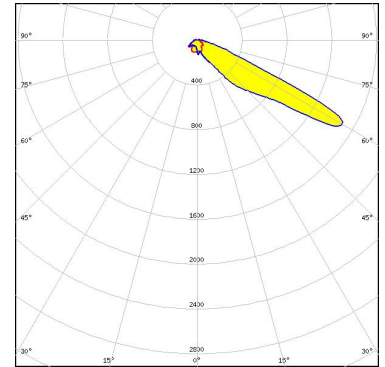


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

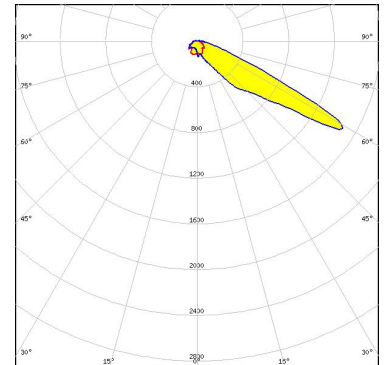
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM Asymmetric
Efficiency 92 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

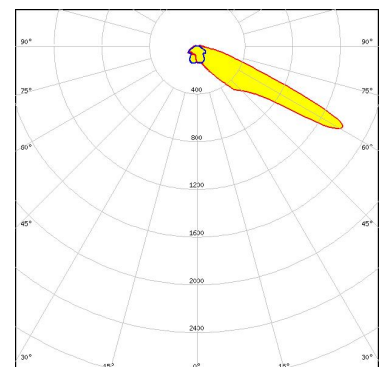
LED OSLON Square PC
FWHM / FWTM Asymmetric
Efficiency 93 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

LED Fortimo FastFlex LED 2x8 DA G4+
FWHM / FWTM Asymmetric
Efficiency 95 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

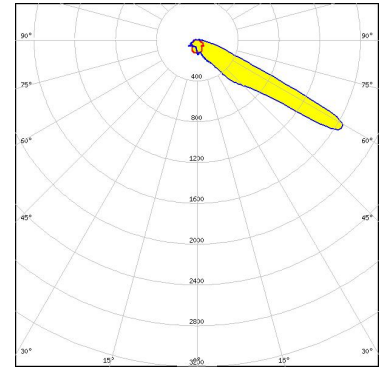


Light distribution files

OPTICAL RESULTS (MEASURED):

PHILIPS

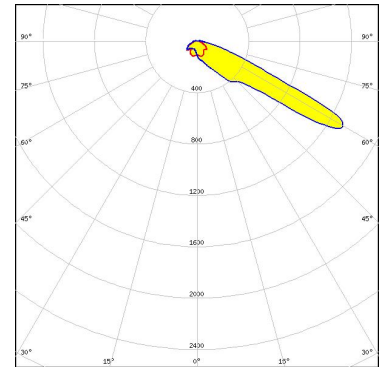
LED Fortimo FastFlex LED 2x8 DA G5
FWHM / FWTM Asymmetric
Efficiency 95 %
Peak intensity 2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

PHILIPS

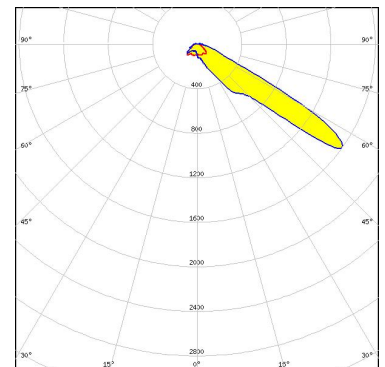
LED Fortimo FastFlex LED 2x8 DAX G4
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED HiLOM RC12 Z (LH181B)
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

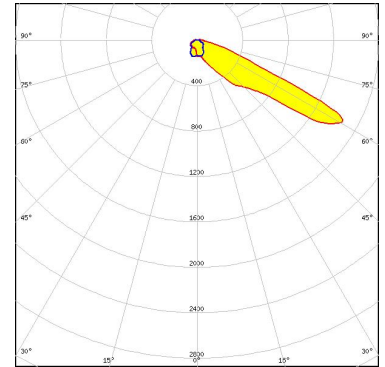


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

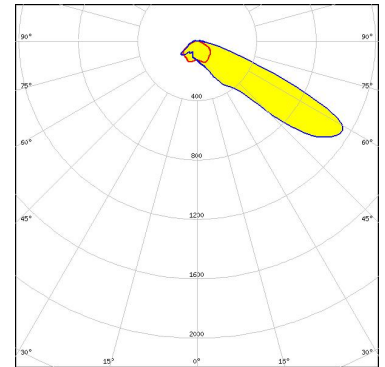
LED HiLOM RH16 (LH351C)
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

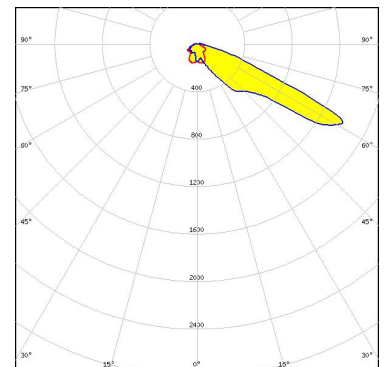
LED HiLOM RM12 Z (LH502C)
FWHM / FWTM Asymmetric
Efficiency 95 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED HiLOM RM12 Z (LH502C)
FWHM / FWTM Asymmetric
Efficiency 95 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

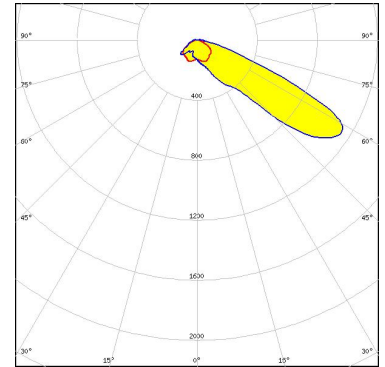


Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

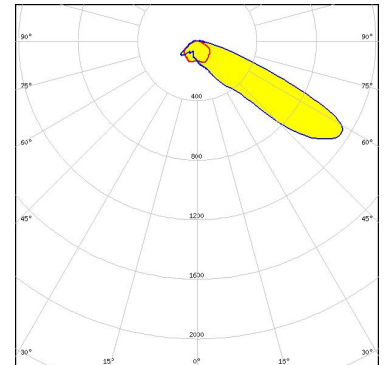
LED HiLOM RM16 Z (LH502C)
FWHM / FWTM Asymmetric
Efficiency 96 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

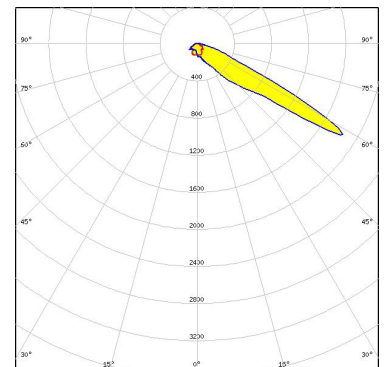
LED HiLOM RM8 Z (LH502C)
FWHM / FWTM Asymmetric
Efficiency 96 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

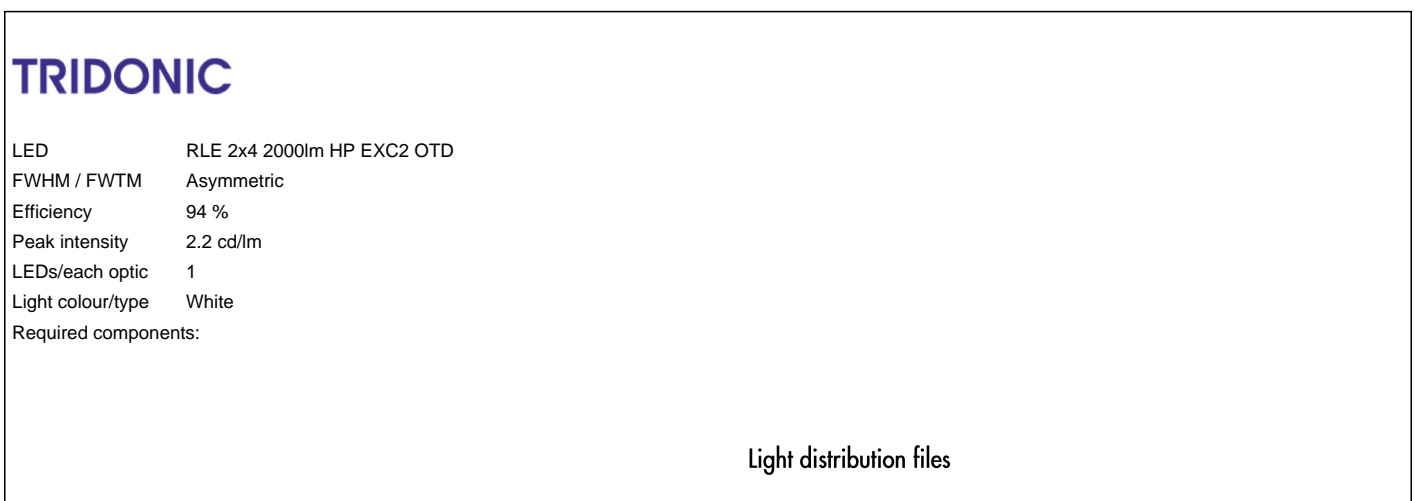
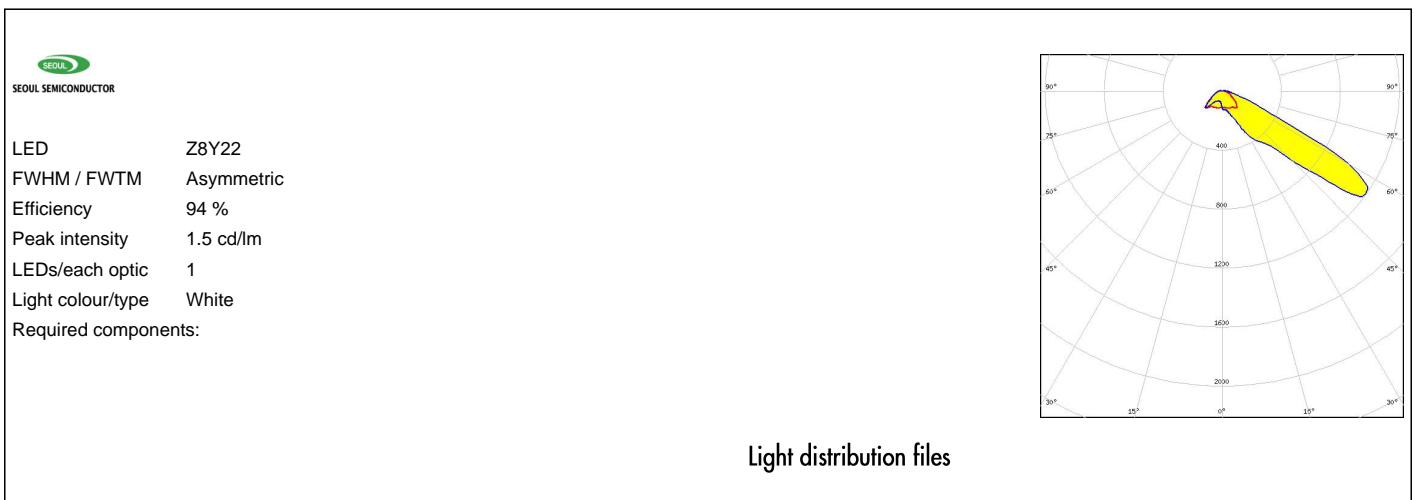
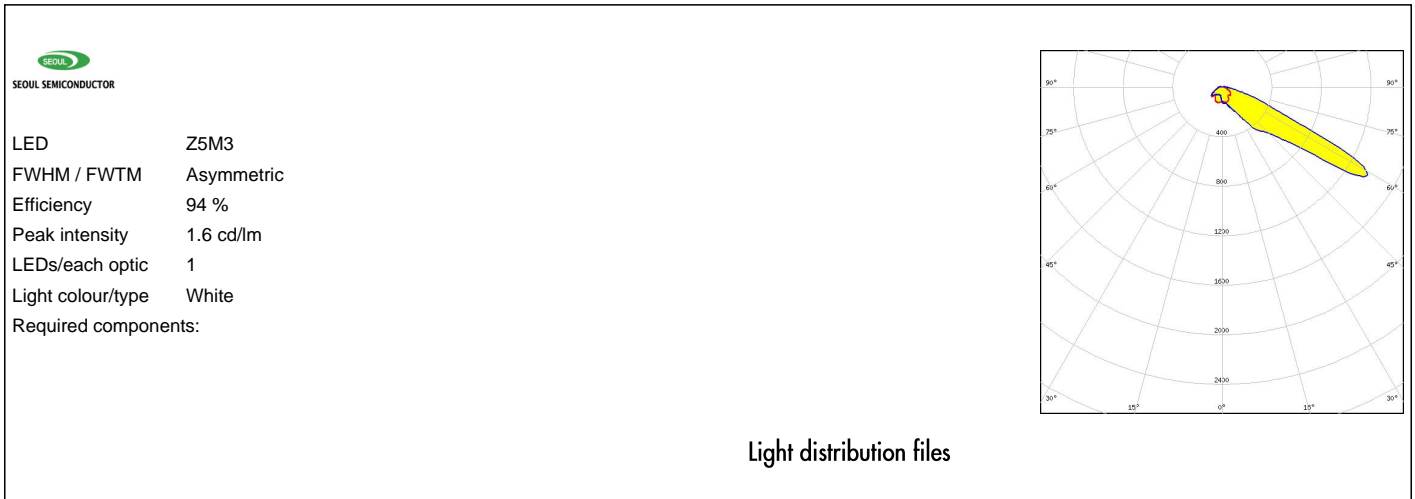


LED LED-Pa-L15c2W11c2-xxx-C050-01
FWHM / FWTM Asymmetric
Efficiency 96 %
Peak intensity 2.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

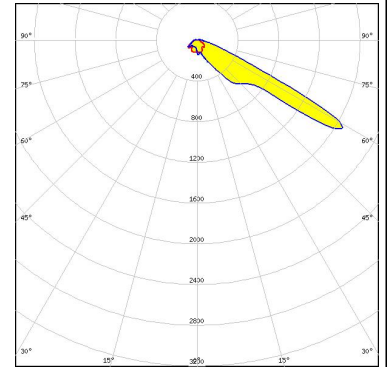
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (MEASURED):

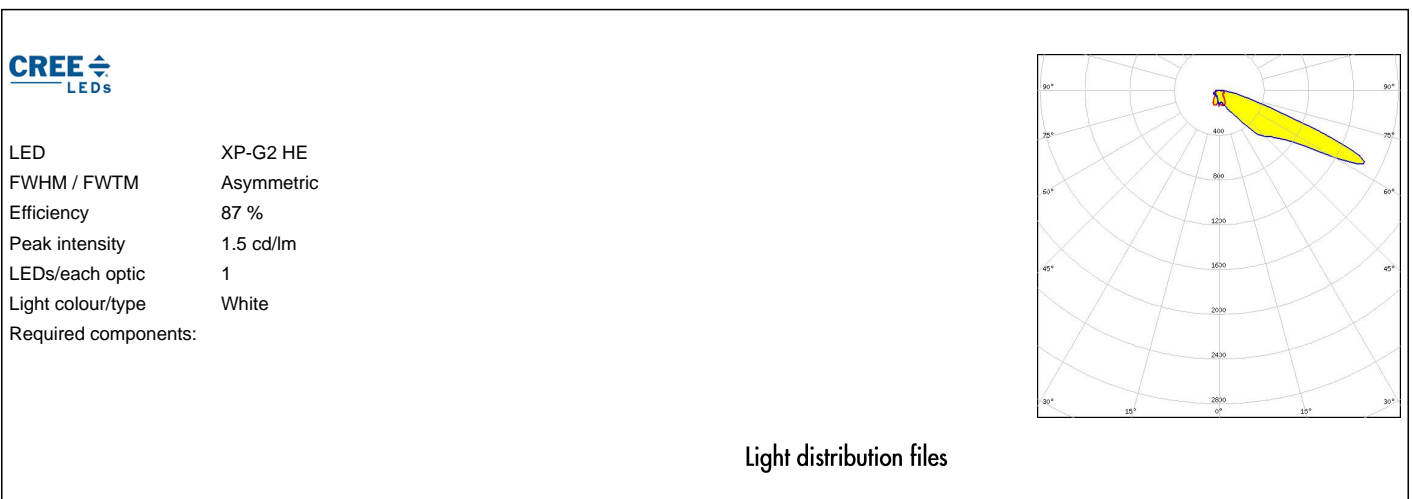
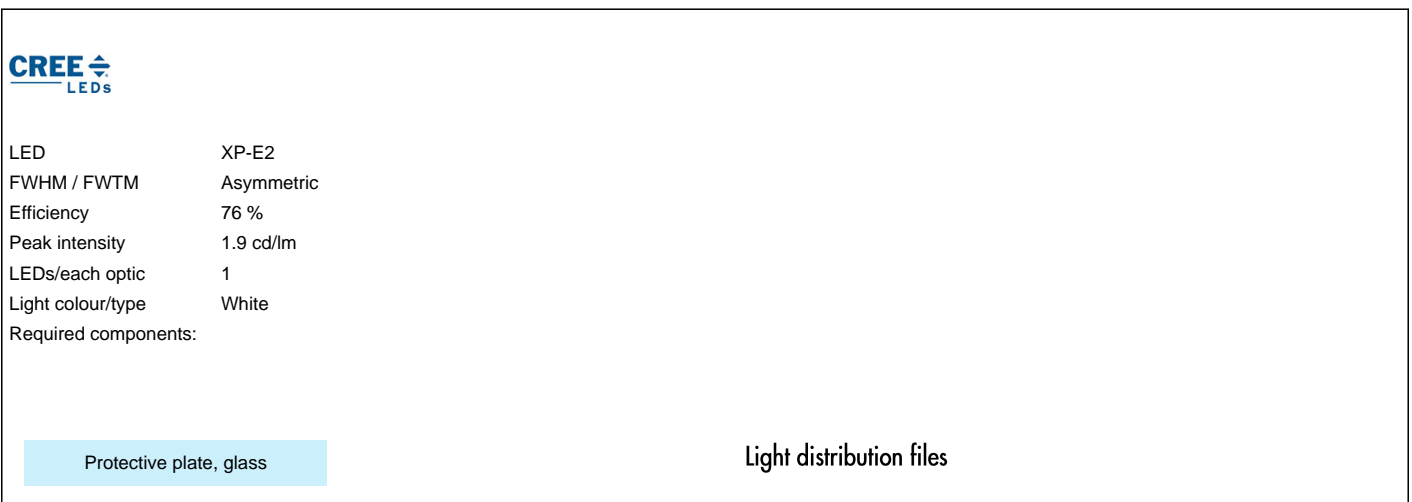
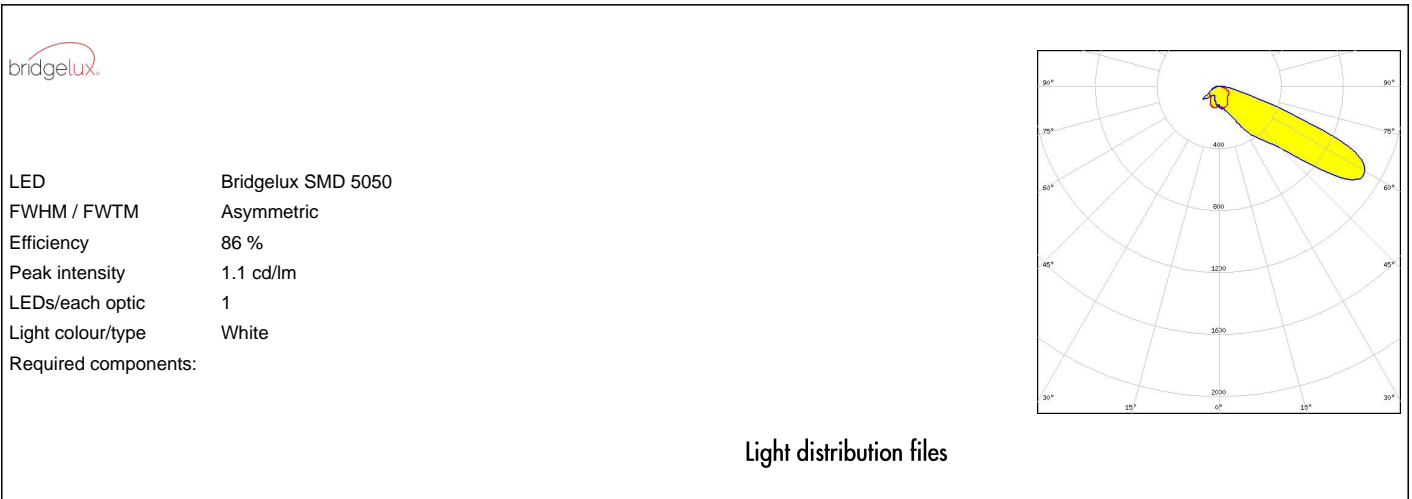
TRIDONIC

LED RLE 2x8 4000lm HP EXC2 OTD
FWHM / FWTM Asymmetric
Efficiency 94 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):



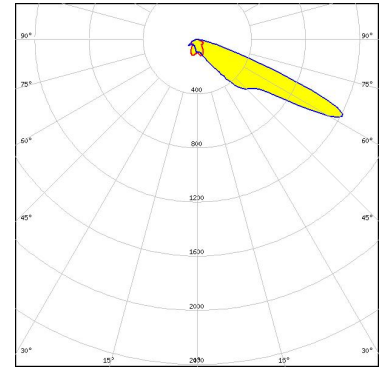
OPTICAL RESULTS (SIMULATED):



LED XP-G3
 FWHM / FWTM Asymmetric
 Efficiency 73 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

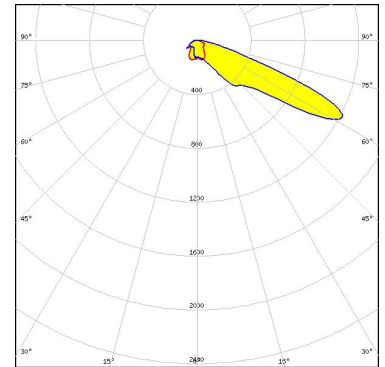
Protective plate, glass

Light distribution files



LED XP-L2
 FWHM / FWTM Asymmetric
 Efficiency 86 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

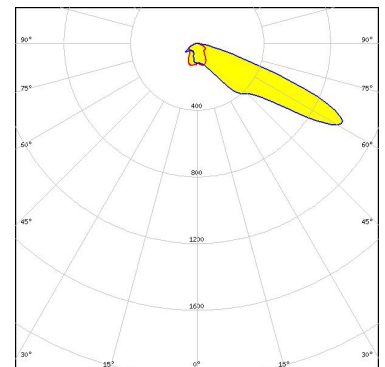
Light distribution files



LED XP-L2
 FWHM / FWTM Asymmetric
 Efficiency 72 %
 Peak intensity 1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

Light distribution files



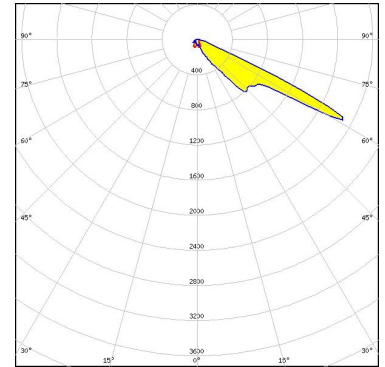
OPTICAL RESULTS (SIMULATED):



LED XP-P
 FWHM / FWTM Asymmetric
 Efficiency 76 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

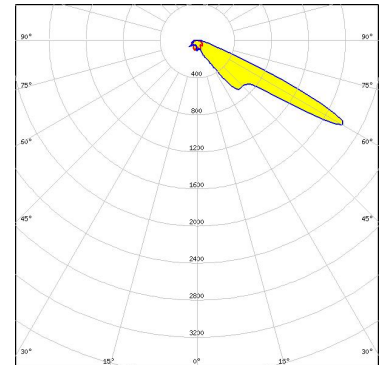
Protective plate, glass

Light distribution files



LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM Asymmetric
 Efficiency 90 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

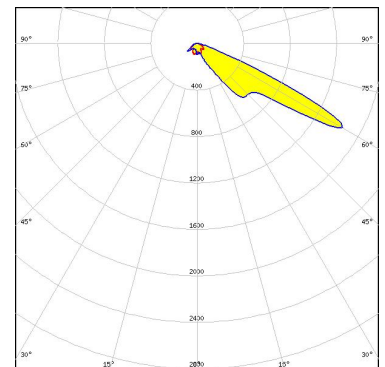
Light distribution files



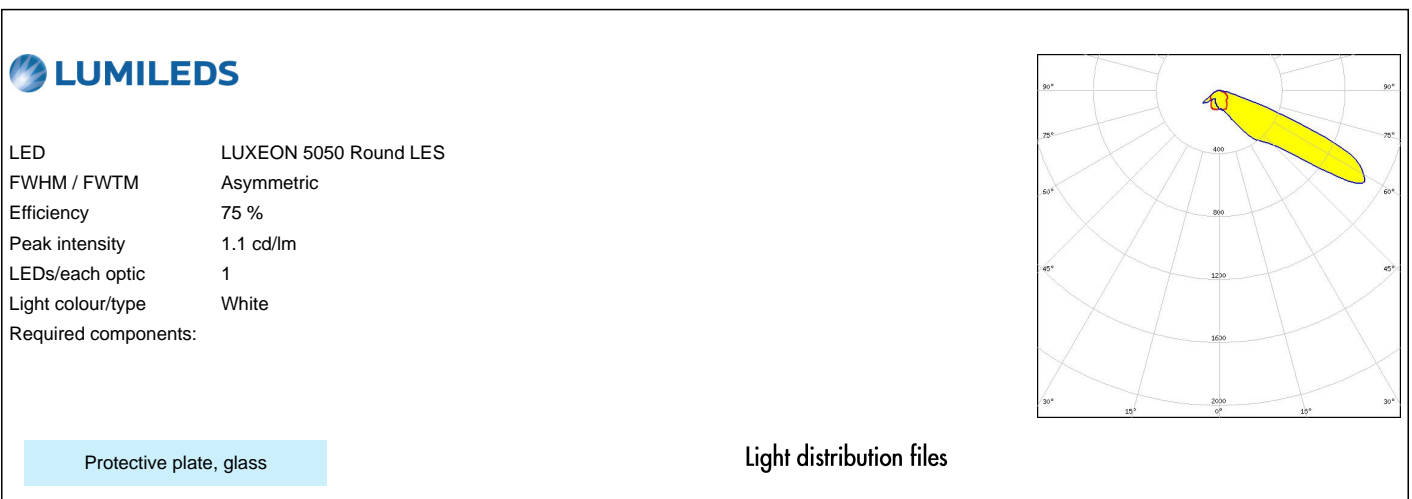
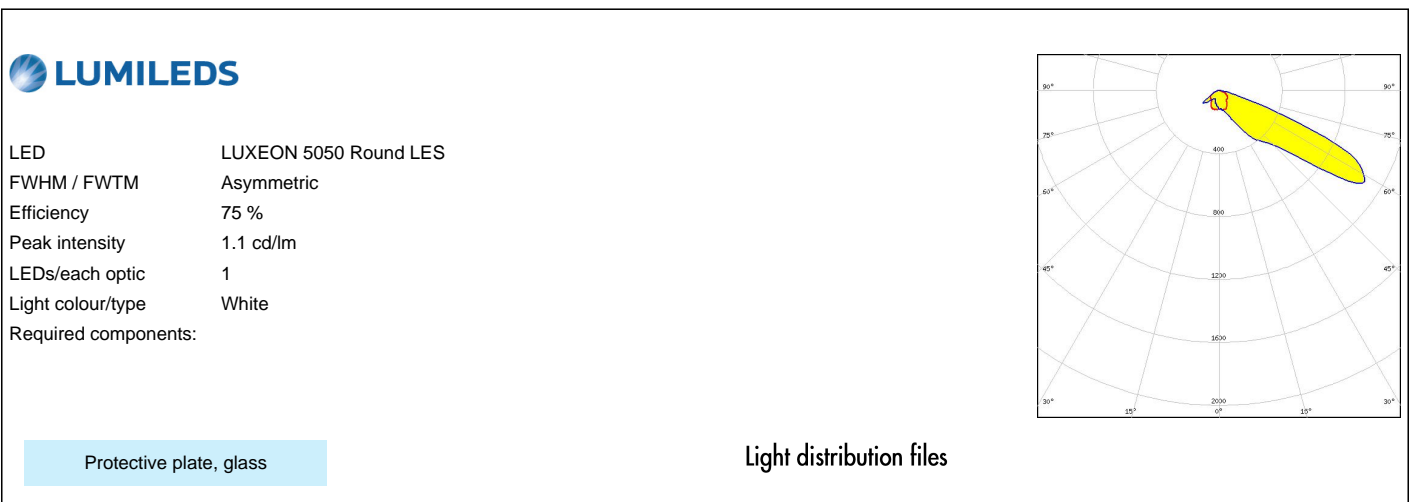
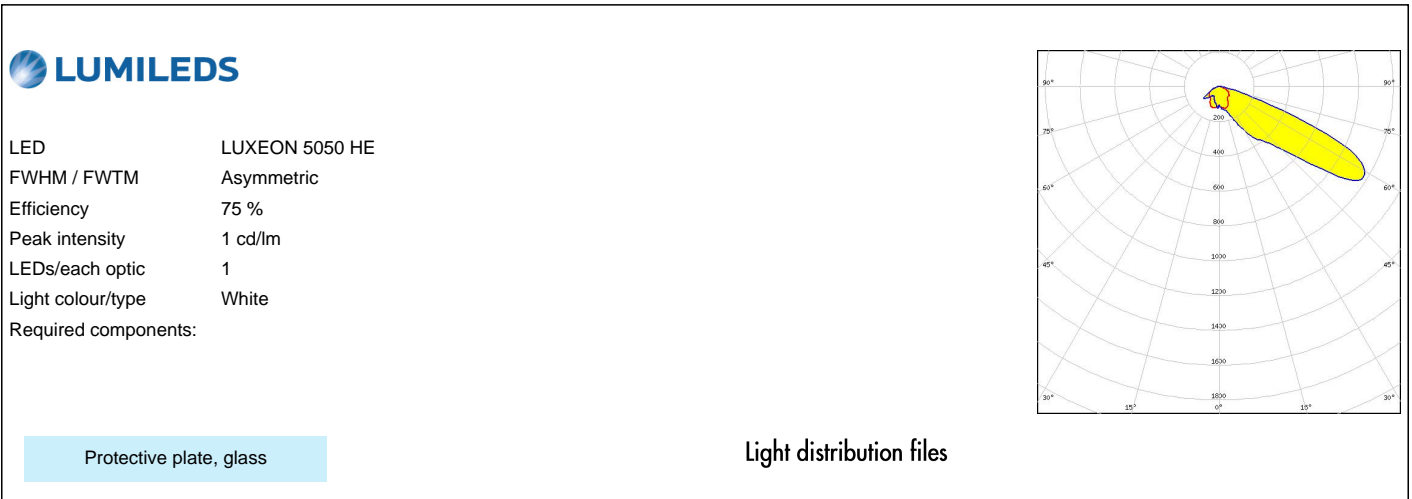
LED LUXEON 3030 2D (Round LES)
 FWHM / FWTM Asymmetric
 Efficiency 76 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Protective plate, glass

Light distribution files



OPTICAL RESULTS (SIMULATED):



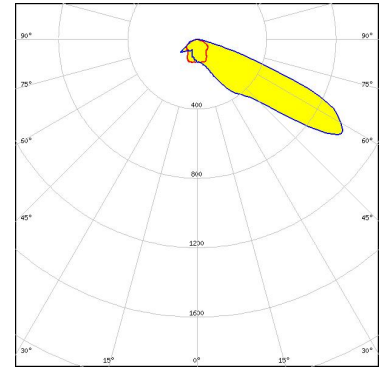
OPTICAL RESULTS (SIMULATED):



LED LUXEON 5050 Square LES
FWHM / FWTM Asymmetric
Efficiency 78 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

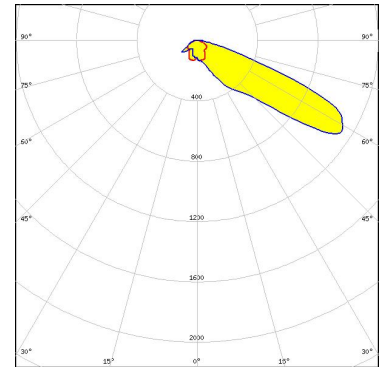
Protective plate, glass

Light distribution files



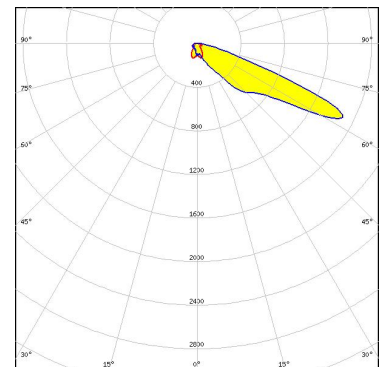
LED LUXEON 5050 Square LES
FWHM / FWTM Asymmetric
Efficiency 87 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

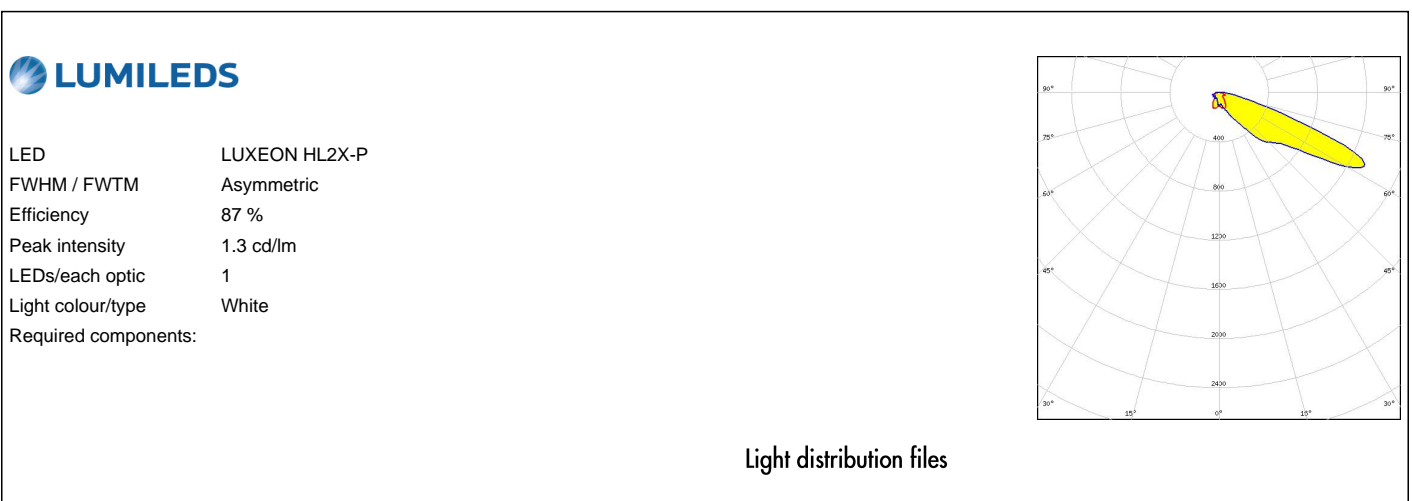
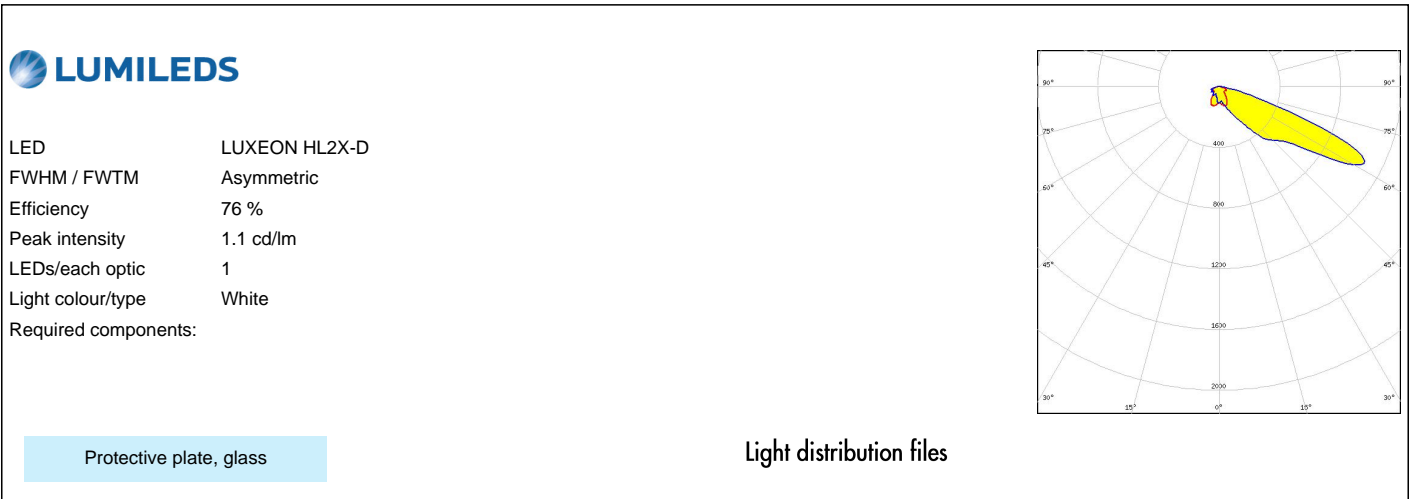


LED LUXEON HL2X
FWHM / FWTM Asymmetric
Efficiency 87 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

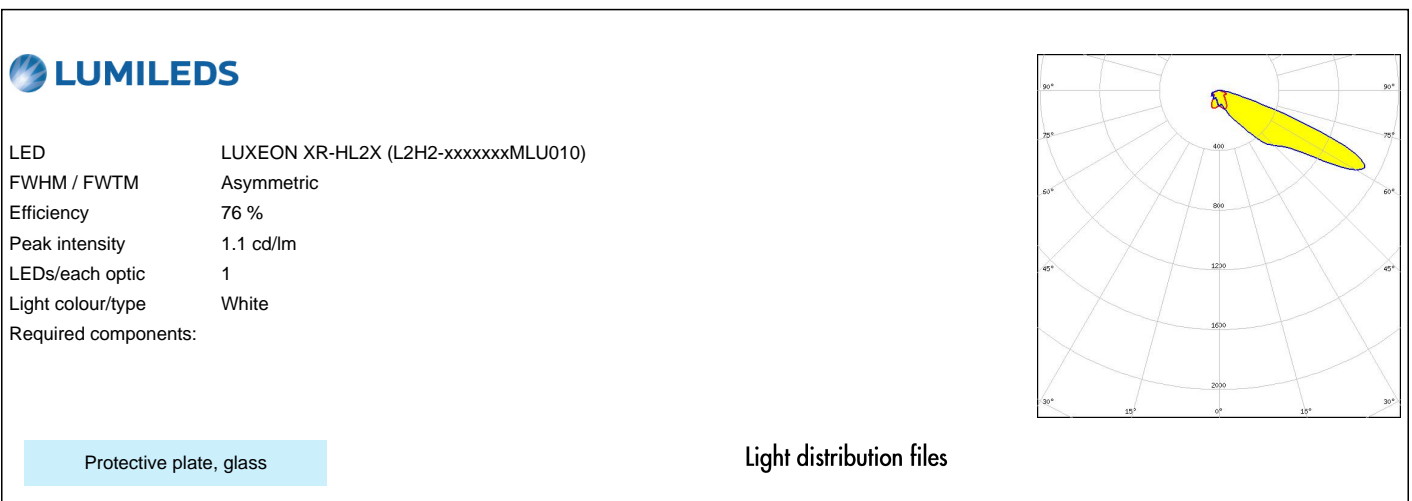
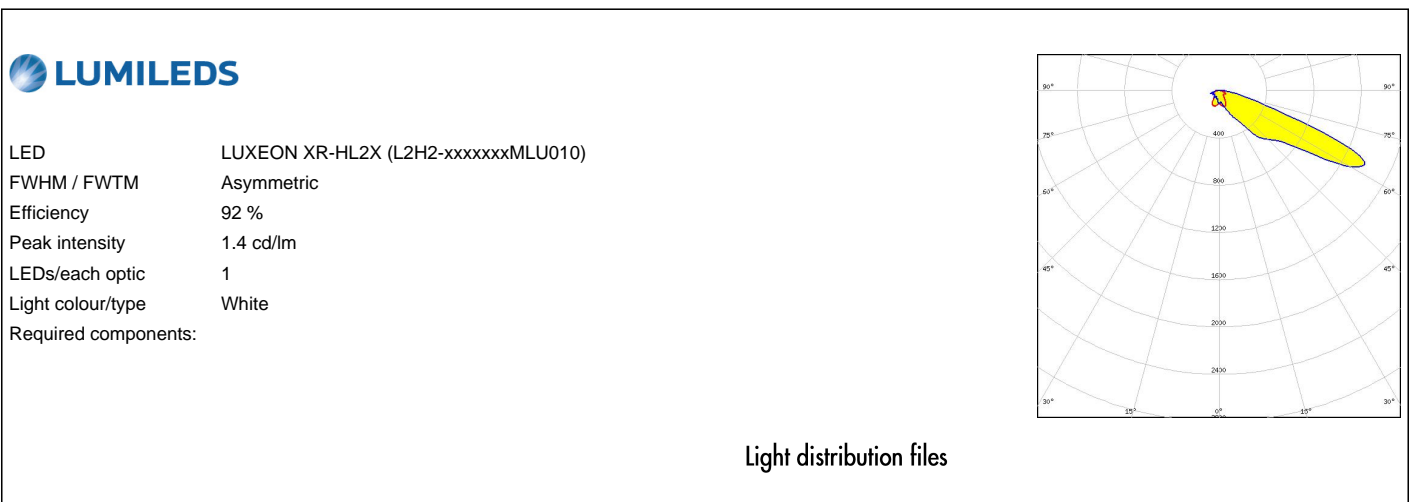
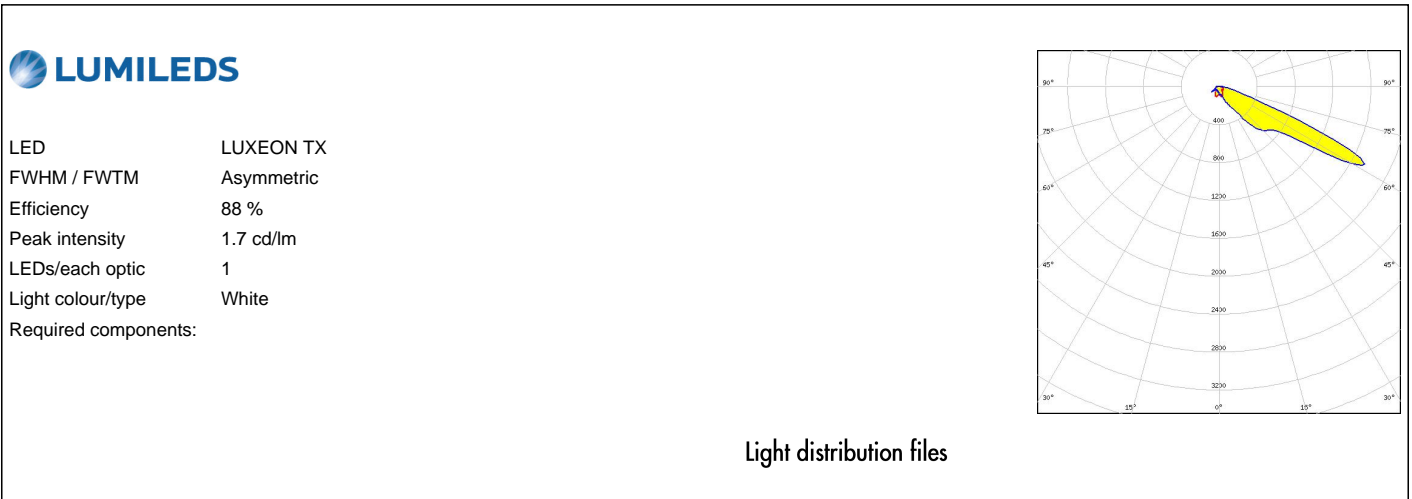
Light distribution files



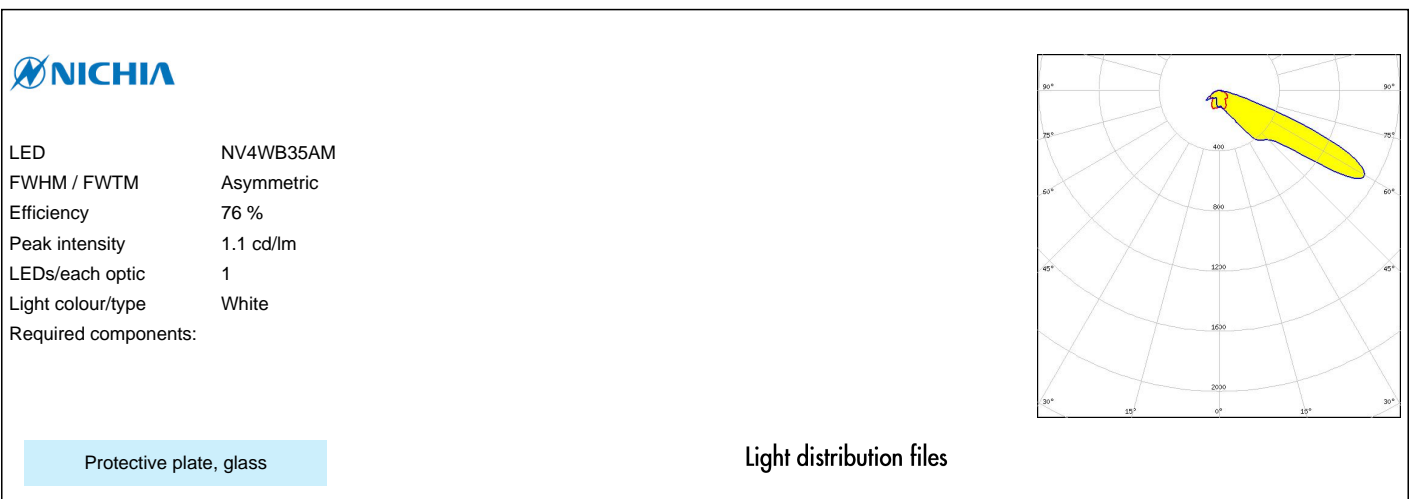
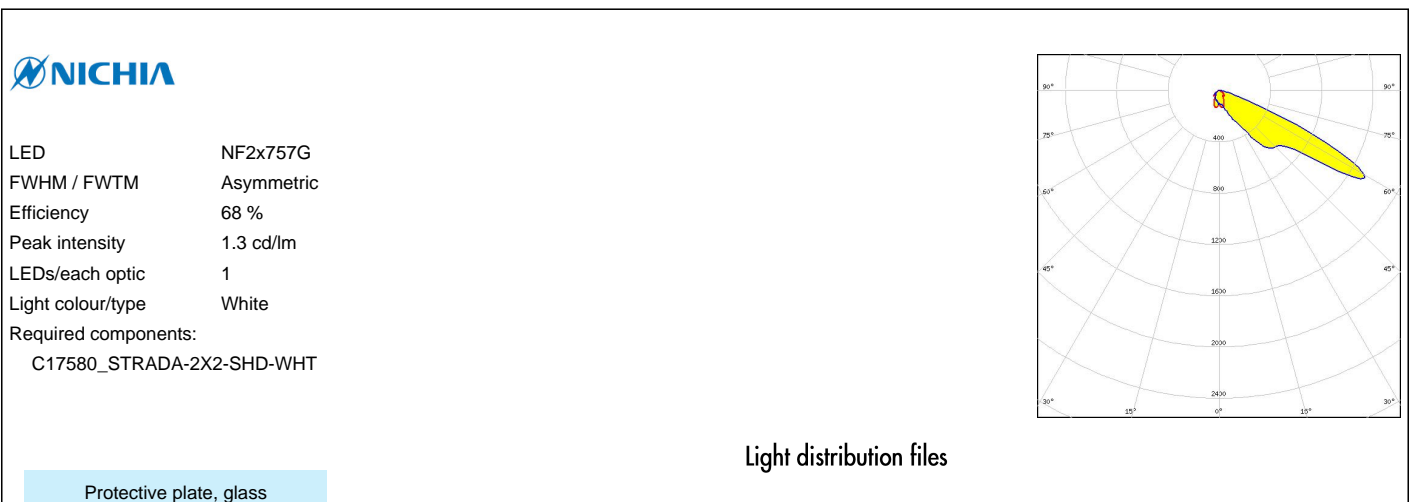
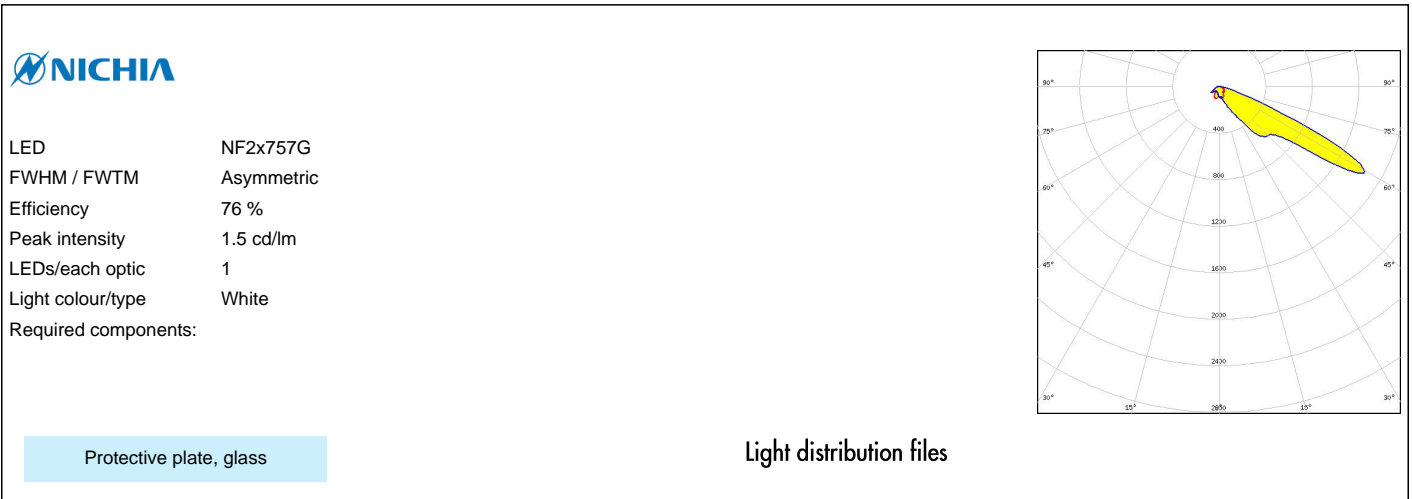
OPTICAL RESULTS (SIMULATED):



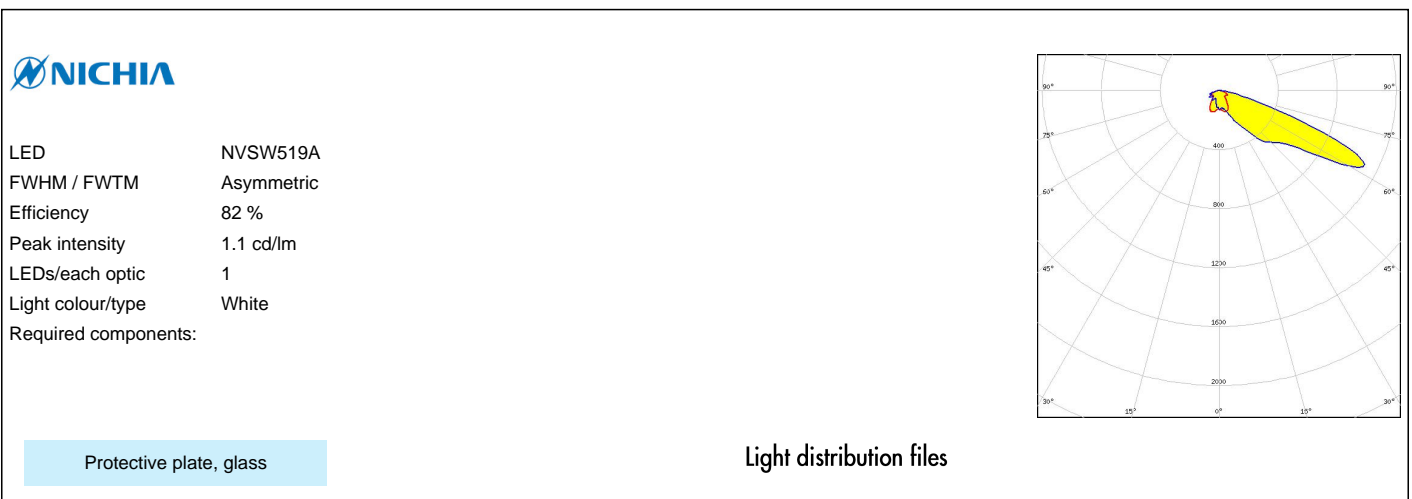
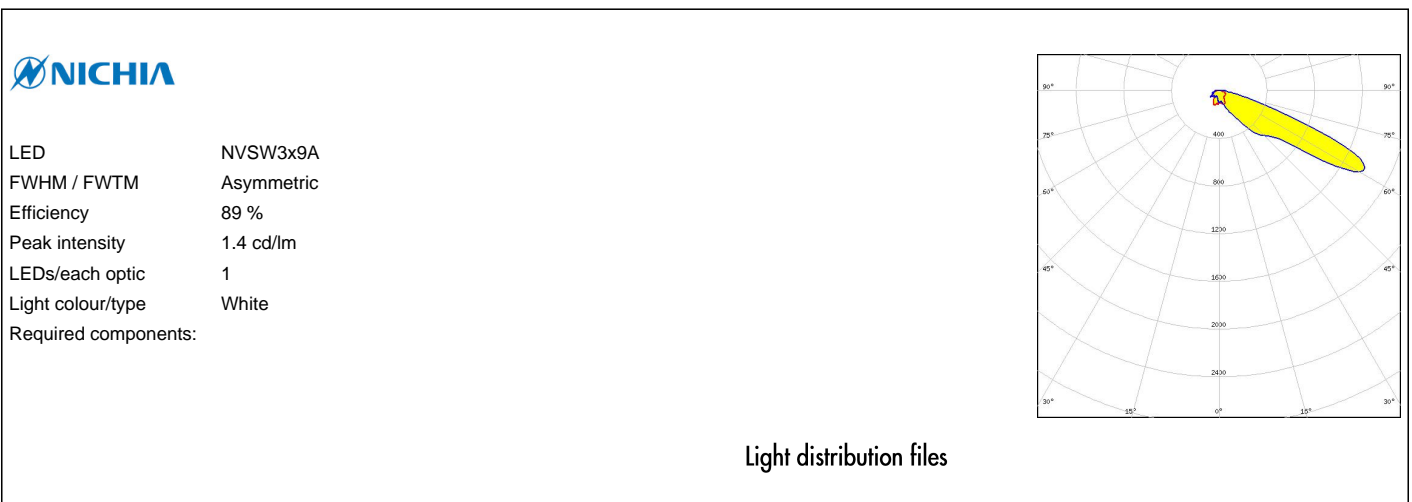
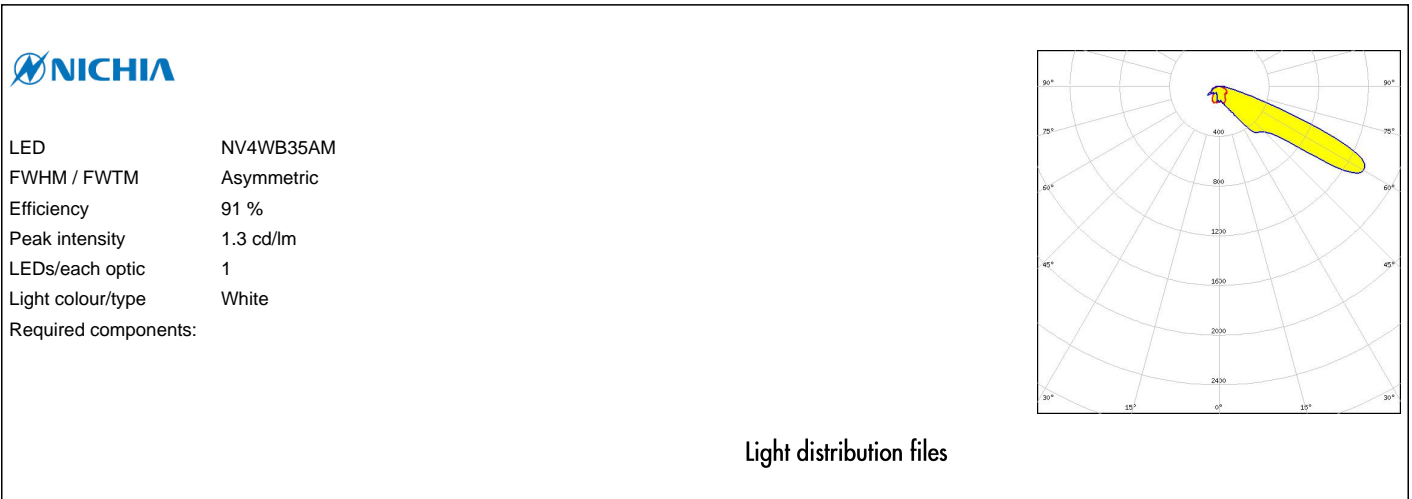
OPTICAL RESULTS (SIMULATED):



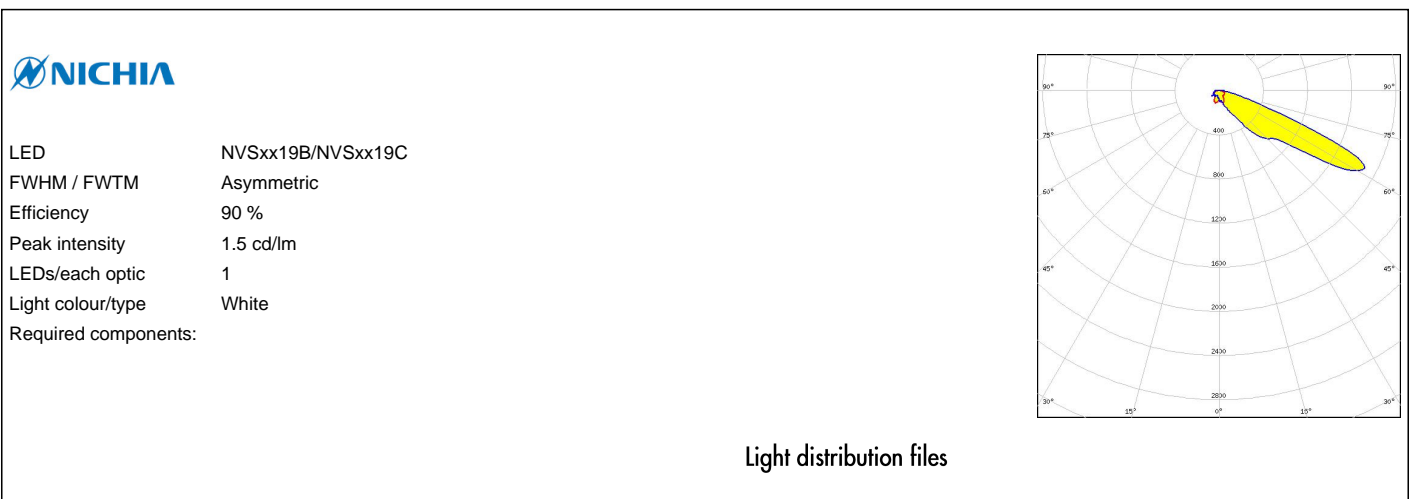
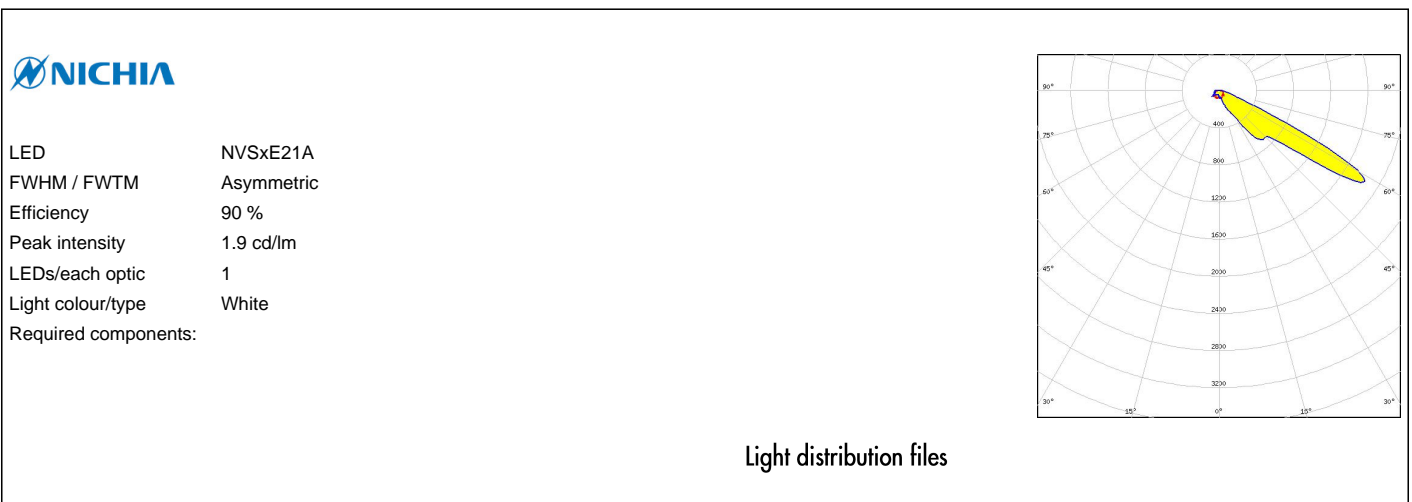
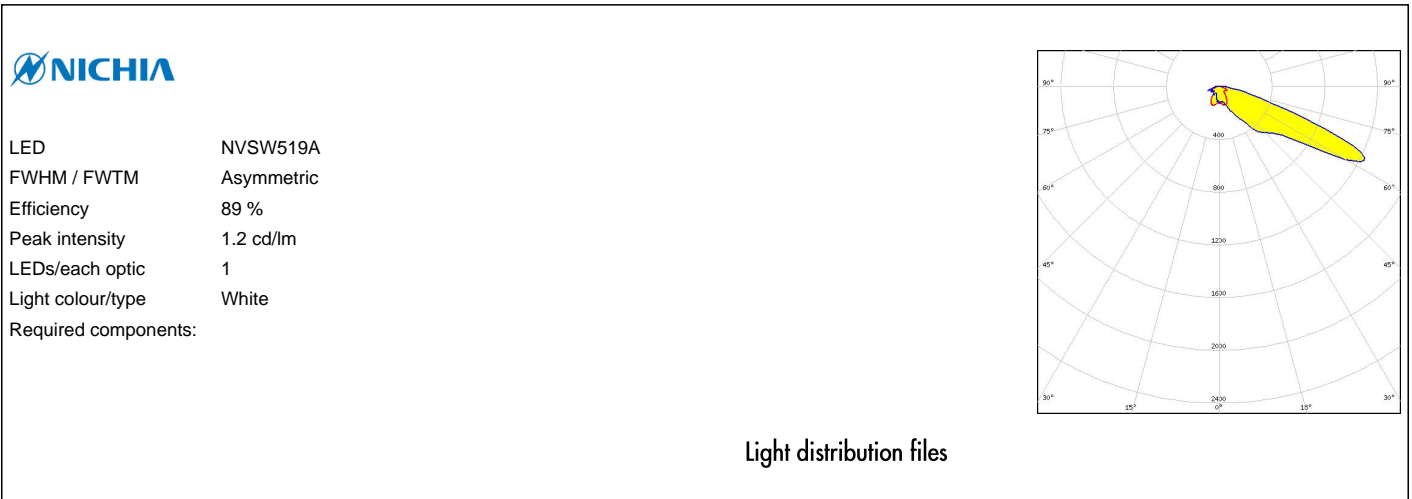
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):



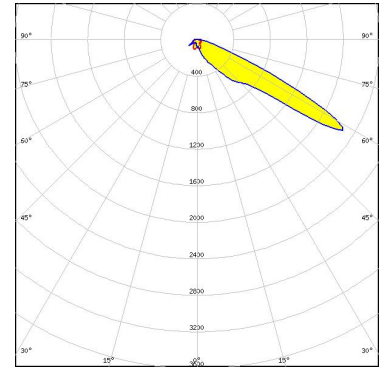
OPTICAL RESULTS (SIMULATED):



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

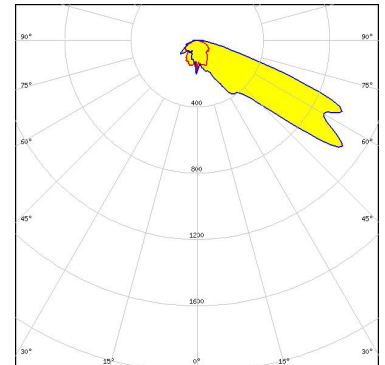
LED Duris S5 (2 chip)
 FWHM / FWTM Asymmetric
 Efficiency 91 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

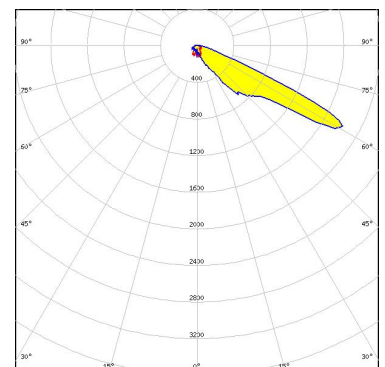
LED Duris S8
 FWHM / FWTM Asymmetric
 Efficiency 90 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSCONIQ P 3737 (2W version)
 FWHM / FWTM Asymmetric
 Efficiency 91 %
 Peak intensity 1.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

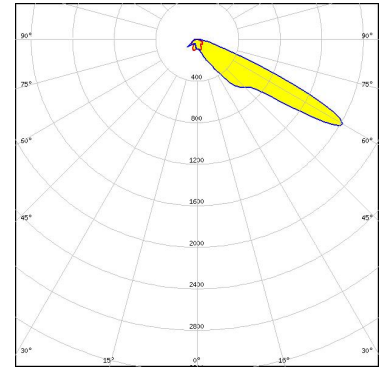


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

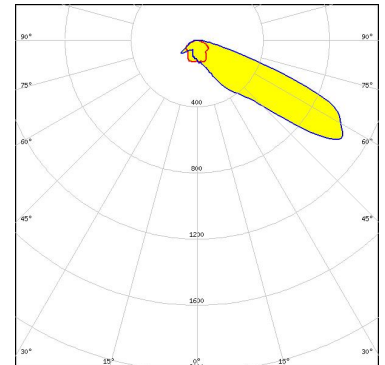
LED OSCONIQ P 3737 Flat
 FWHM / FWTM Asymmetric
 Efficiency 88 %
 Peak intensity 1.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

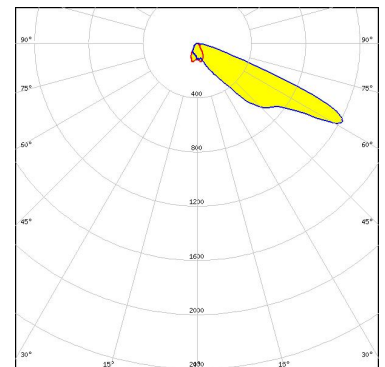
LED OSCONIQ S 5050
 FWHM / FWTM Asymmetric
 Efficiency 86 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSOLON Square CSSRM2/CSSRM3
 FWHM / FWTM Asymmetric
 Efficiency 68 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:
 C17580_STRADA-2X2-SHD-WHT



Light distribution files

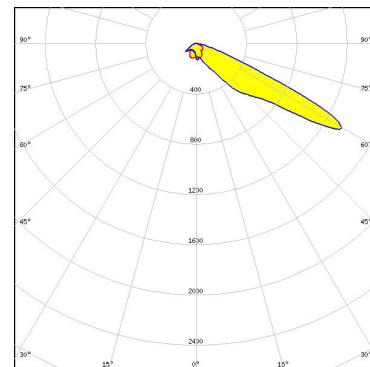
Protective plate, glass

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM Asymmetric
 Efficiency 80 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

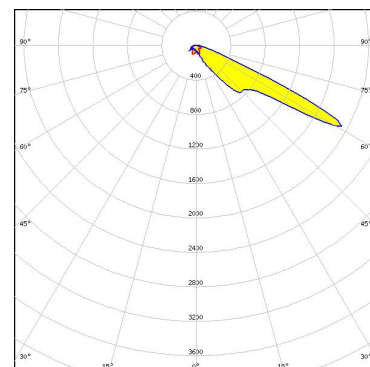
Protective plate, glass



Light distribution files

OSRAM
Opto Semiconductors

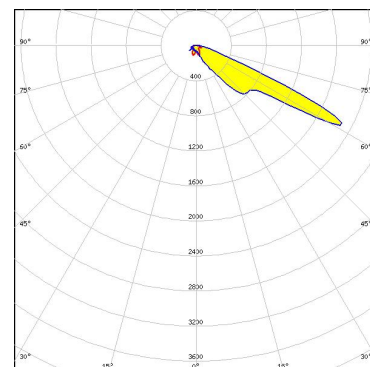
LED OSLON Square Flat
 FWHM / FWTM Asymmetric
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSTAR Projection Compact (KW.CSLNM1.TG)
 FWHM / FWTM Asymmetric
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

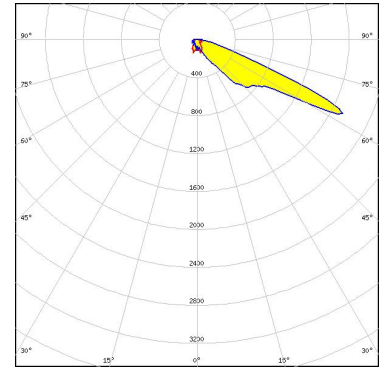


Light distribution files

OPTICAL RESULTS (SIMULATED):

PHILIPS

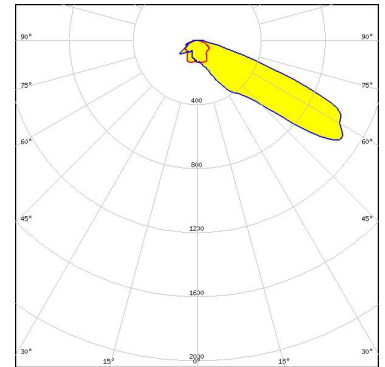
| | |
|----------------------|--------------------------------|
| LED | Fortimo FastFlex LED 2x8 DA G4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 1.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

PHILIPS

| | |
|----------------------|--------------------------------|
| LED | Fortimo FastFlex LED 2x8 DA HE |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

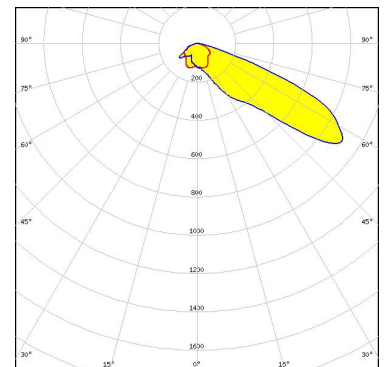


Light distribution files

PHILIPS

| | |
|----------------------|--------------------------------|
| LED | Fortimo FastFlex LED 2x8 DA HE |
| FWHM / FWTM | Asymmetric |
| Efficiency | 78 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass



Light distribution files

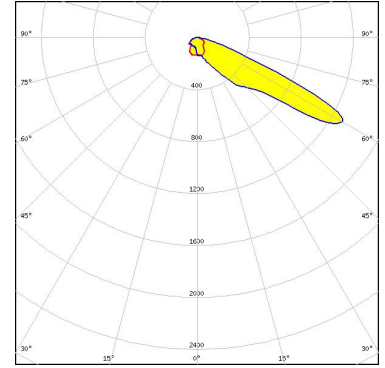
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED HiLOM RH16 (LH351C)
FWHM / FWTM Asymmetric
Efficiency 83 %
Peak intensity 1.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

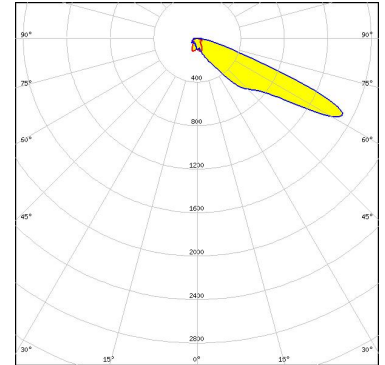
Light distribution files



SAMSUNG

LED LH351B
FWHM / FWTM Asymmetric
Efficiency 87 %
Peak intensity 1.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

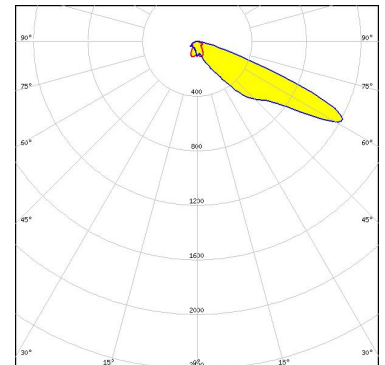


SAMSUNG

LED LH351B
FWHM / FWTM Asymmetric
Efficiency 75 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

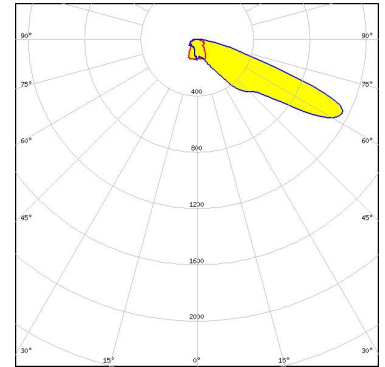
Light distribution files



OPTICAL RESULTS (SIMULATED):

SAMSUNG

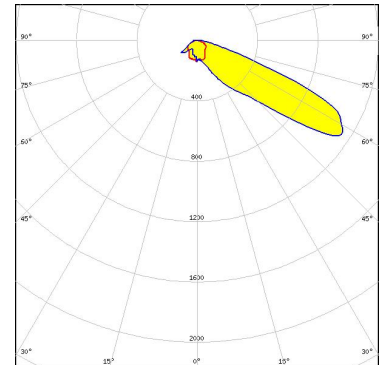
LED LH351D
FWHM / FWTM Asymmetric
Efficiency 86 %
Peak intensity 1.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LH502D
FWHM / FWTM Asymmetric
Efficiency 86 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

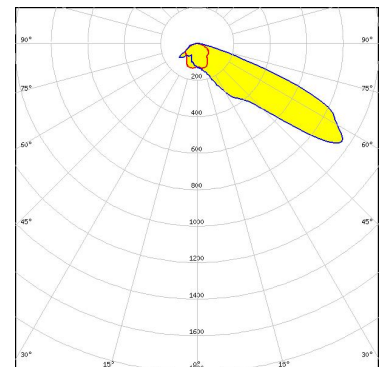


Light distribution files




LED SEOUL DC 5050 6V
FWHM / FWTM Asymmetric
Efficiency 78 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Protective plate, glass

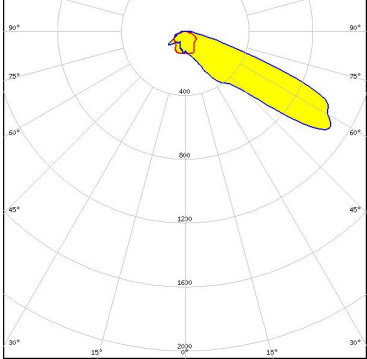


Light distribution files


OPTICAL RESULTS (SIMULATED):


SEOUL SEMICONDUCTOR

| | |
|----------------------|------------------|
| LED | SEOUL DC 5050 6V |
| FWHM / FWTM | Asymmetric |
| Efficiency | 90 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

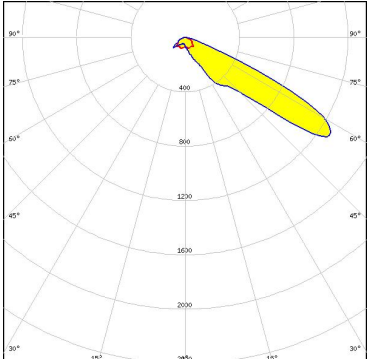


Light distribution files


SEOUL SEMICONDUCTOR

| | |
|----------------------|------------|
| LED | Z8Y22 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 78 % |
| Peak intensity | 1.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass



Light distribution files

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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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

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