

## HB-IP-2X6-WWW

~100° wide beam

### SPECIFICATION:

|                            |                 |
|----------------------------|-----------------|
| Dimensions                 | 71.4 x 173.0 mm |
| Height                     | 11.4 mm         |
| Fastening                  | screw           |
| Ingress protection classes | IP67            |
| ROHS compliant             | yes ⓘ           |

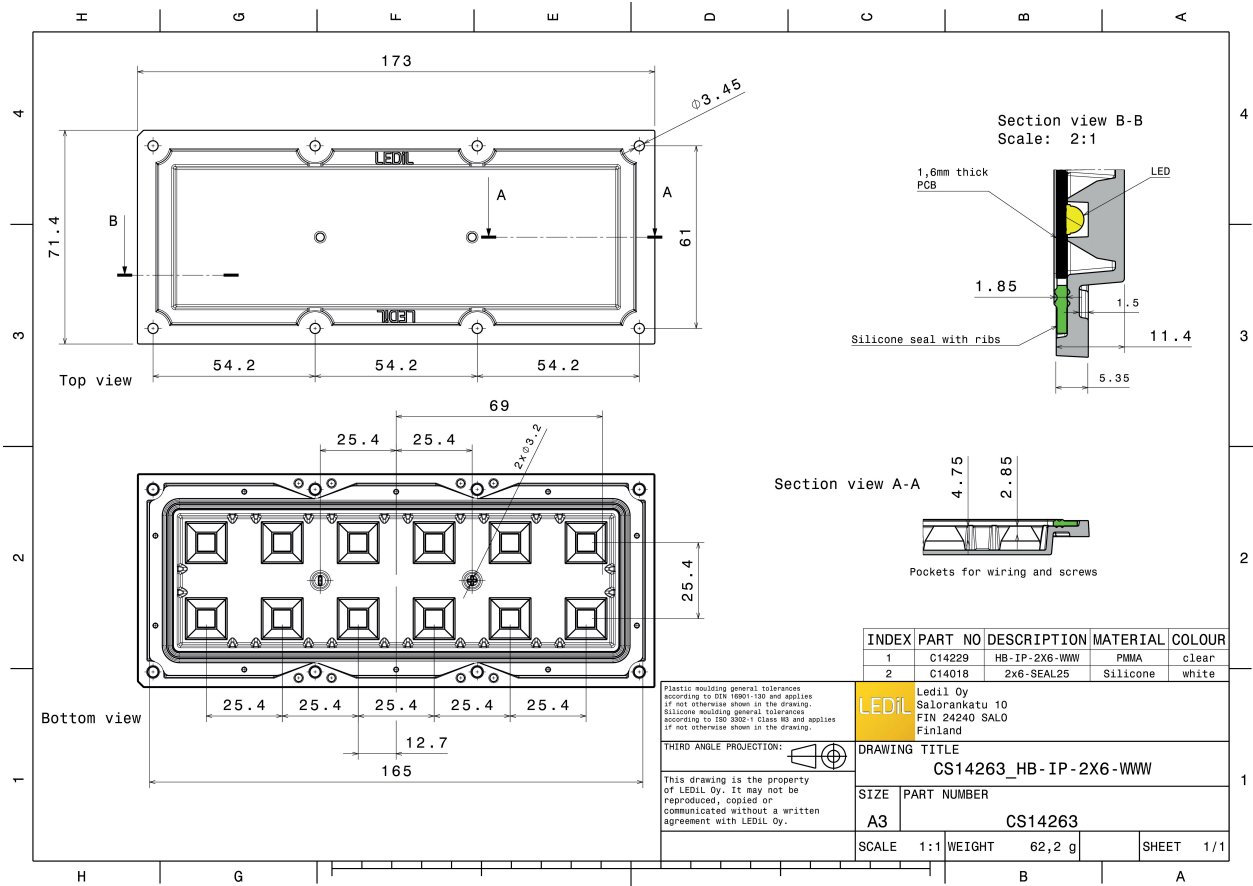
### MATERIALS:

| Component     | Type       | Material | Colour | Finish | Length (mm) |
|---------------|------------|----------|--------|--------|-------------|
| HB-IP-2X6-WWW | Multi-lens | PMMA     | clear  |        |             |
| 2X6-SEAL25    | Seal       | Silicone | white  |        |             |



### ORDERING INFORMATION:

| Component   | Type       | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|------------|------------|-----|-----|-----------------|
| CS14263_HB-IP-2X6-WWW<br>» Box size: 476 x 273 x 247 mm | Multi-lens | 120        | 40  | 40  | 8.3             |

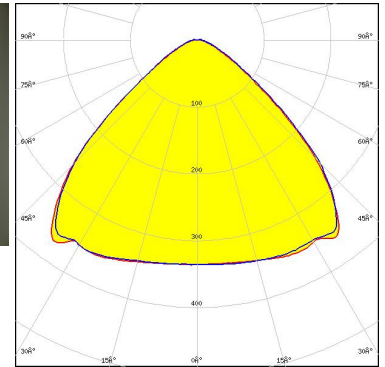


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



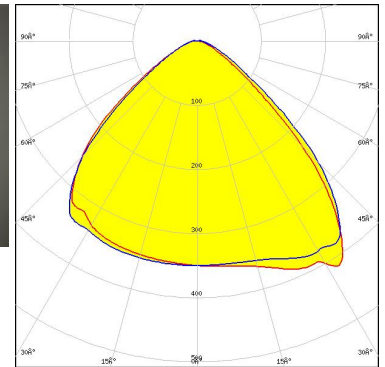
**LED** QUICK FLUX 2x6 LED XG xxx G7+  
**FWHM / FWTM** 100.0° / 133.0°  
**Efficiency** 94 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



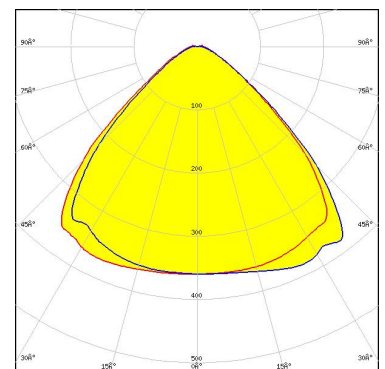
**LED** QUICK FLUX 2x6 LED XT xxx G5  
**FWHM / FWTM** 96.0° / 128.0°  
**Efficiency** 94 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** XM-L2  
**FWHM / FWTM** 97.0° / 132.0°  
**Efficiency** 93 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

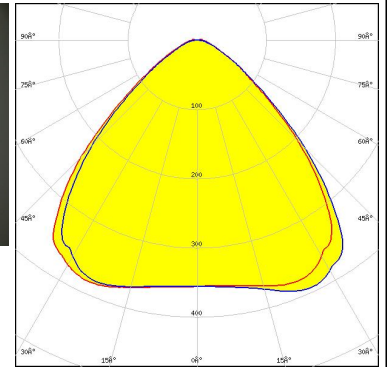
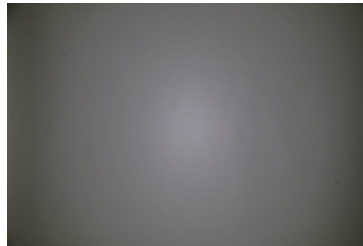


Light distribution files

#### OPTICAL RESULTS (MEASURED):



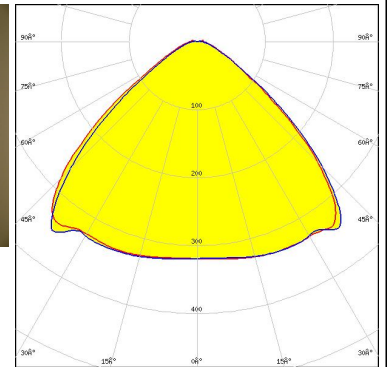
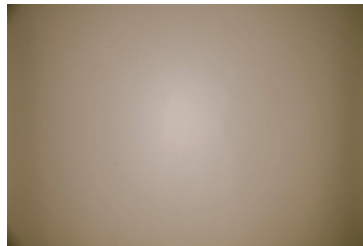
LED XP-G2  
 FWHM / FWTM 95.0° / 132.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



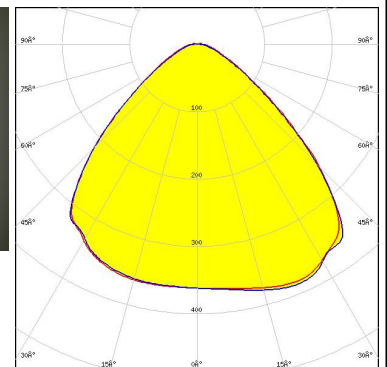
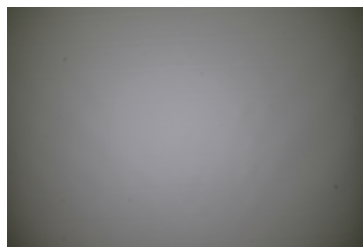
LED XP-L HD  
 FWHM / FWTM 103.0° / 138.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-L2  
 FWHM / FWTM 96.0° / 134.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

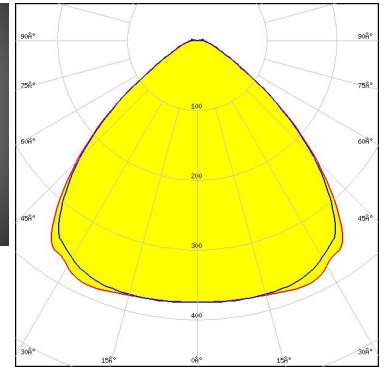


Light distribution files

#### OPTICAL RESULTS (MEASURED):



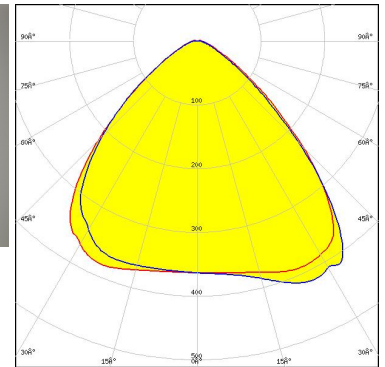
LED XT-E  
 FWHM / FWTM 98.0° / 130.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



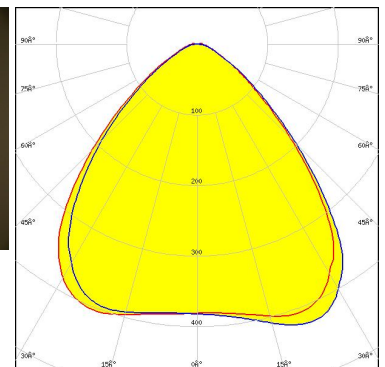
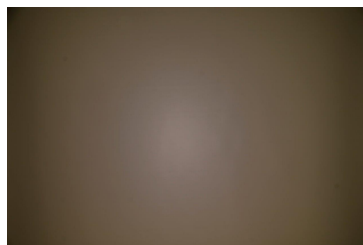
LED XT-E HE  
 FWHM / FWTM 95.0° / 129.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON T  
 FWHM / FWTM 91.0° / 129.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

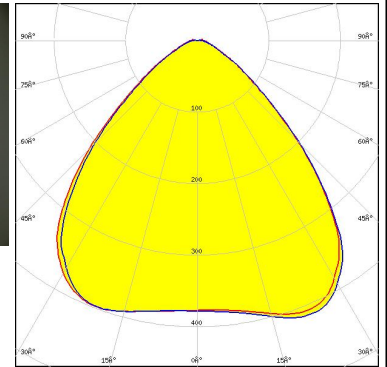
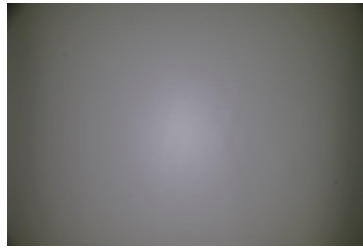


Light distribution files

### OPTICAL RESULTS (MEASURED):



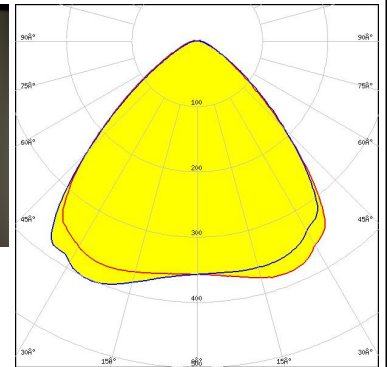
LED LUXEON TX  
 FWHM / FWTM 95.0° / 133.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



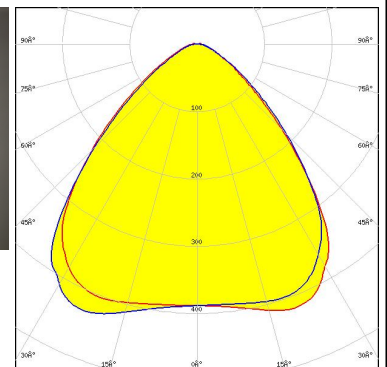
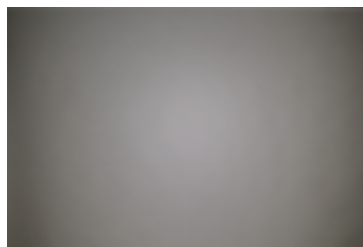
LED LUXEON V  
 FWHM / FWTM 94.0° / 130.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON V2  
 FWHM / FWTM 91.0° / 129.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

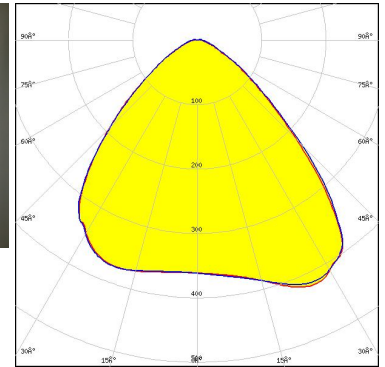


Light distribution files

#### OPTICAL RESULTS (MEASURED):



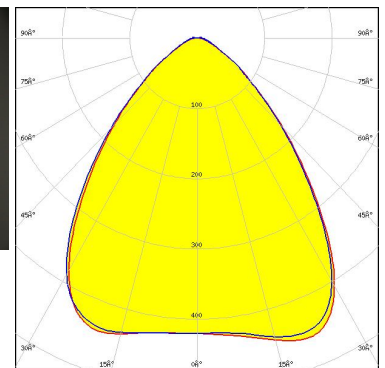
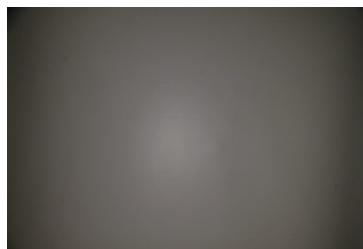
LED LUXEON XR-TX (L2T0-xxxx012M0000)  
 FWHM / FWTM 97.0° / 135.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



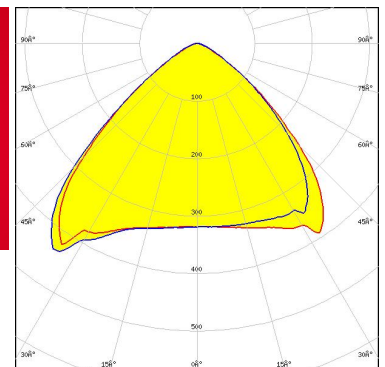
LED LUXEON Z ES  
 FWHM / FWTM 85.0° / 124.0°  
 Efficiency 93 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED SST-10-B130  
 FWHM / FWTM 96.0° / 124.0°  
 Efficiency 95 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type Deep Red  
 Required components:

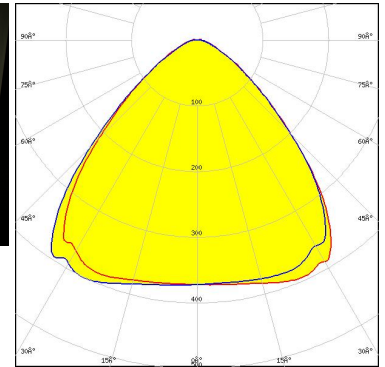


Light distribution files

#### OPTICAL RESULTS (MEASURED):



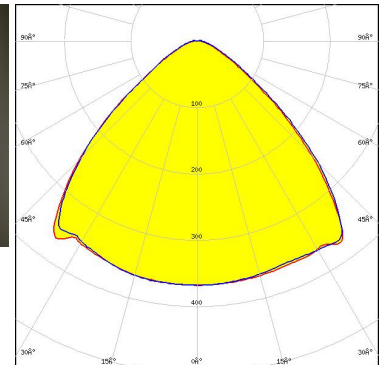
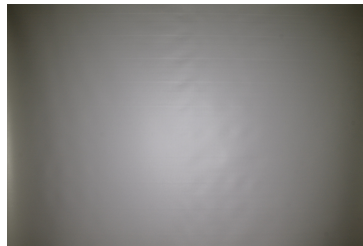
**LED** RecLED 146x45mm 2900lm 730 2x6 IP G1  
**FWHM / FWTM** 91.5° / 129.0°  
**Efficiency** 93 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



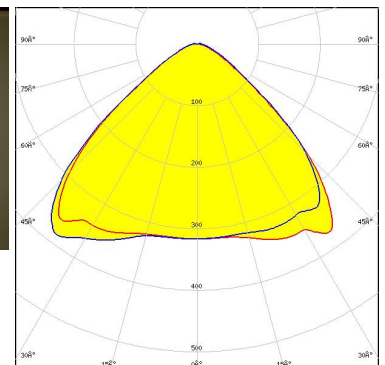
**LED** NVSW219D  
**FWHM / FWTM** 98.0° / 132.0°  
**Efficiency** 93 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSW319B  
**FWHM / FWTM** 103.0° / 136.0°  
**Efficiency** 94 %  
**Peak intensity** 0.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



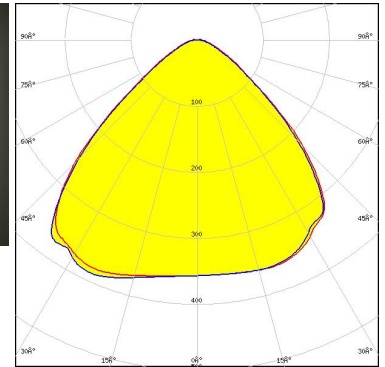
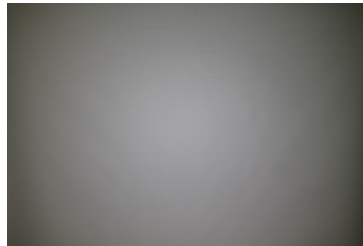
Light distribution files



#### OPTICAL RESULTS (MEASURED):



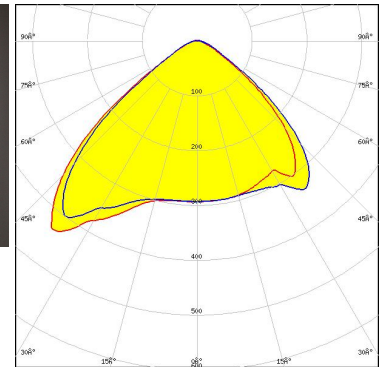
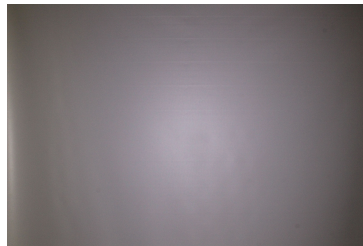
LED NVSW3x9A  
FWHM / FWTM 97.0° / 133.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



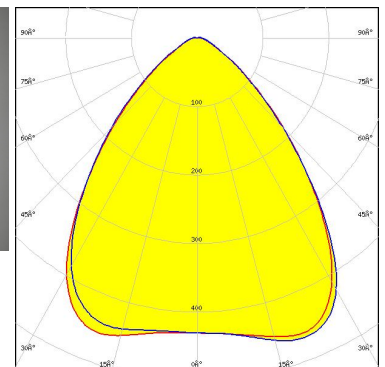
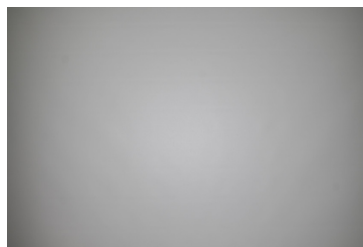
LED NVSW519A  
FWHM / FWTM 100.0° / 126.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSxE21A  
FWHM / FWTM 84.0° / 120.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### OPTICAL RESULTS (MEASURED):

**NICHIA**

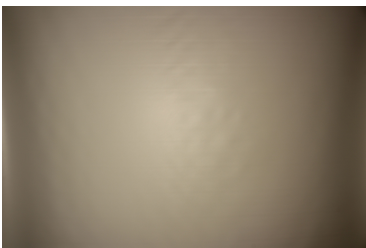
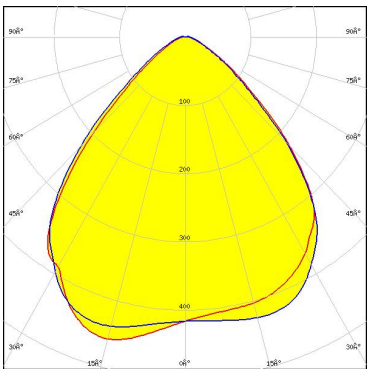
|                      |                   |
|----------------------|-------------------|
| LED                  | NVSxx19B/NVSxx19C |
| FWHM / FWTM          | 90.0° / 129.0°    |
| Efficiency           | 94 %              |
| Peak intensity       | 0.4 cd/lm         |
| LEDs/each optic      | 1                 |
| Light colour/type    | White             |
| Required components: |                   |




Light distribution files

**OSRAM**  
Opto Semiconductors

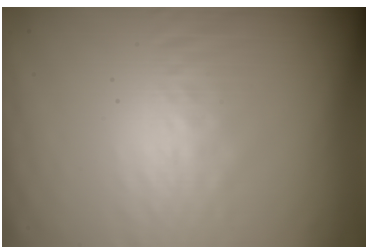
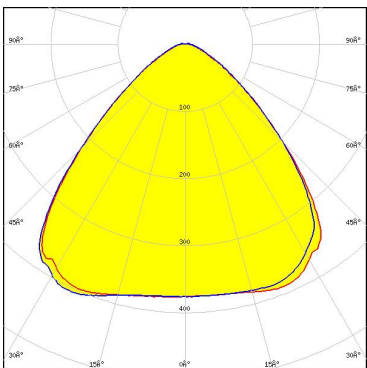
|                      |                |
|----------------------|----------------|
| LED                  | Duris S8       |
| FWHM / FWTM          | 90.0° / 124.0° |
| Efficiency           | 94 %           |
| Peak intensity       | 0.5 cd/lm      |
| LEDs/each optic      | 1              |
| Light colour/type    | White          |
| Required components: |                |

Light distribution files

**OSRAM**  
Opto Semiconductors

|                      |                            |
|----------------------|----------------------------|
| LED                  | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM          | 97.0° / 135.0°             |
| Efficiency           | 94 %                       |
| Peak intensity       | 0.4 cd/lm                  |
| LEDs/each optic      | 1                          |
| Light colour/type    | White                      |
| Required components: |                            |

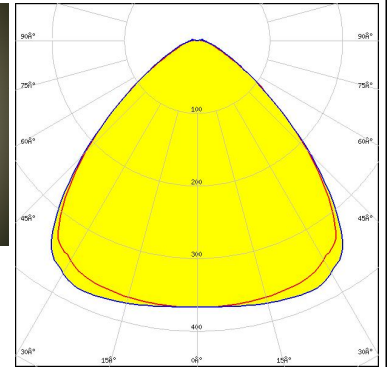



Light distribution files

#### OPTICAL RESULTS (MEASURED):

**OSRAM**  
Opto Semiconductors

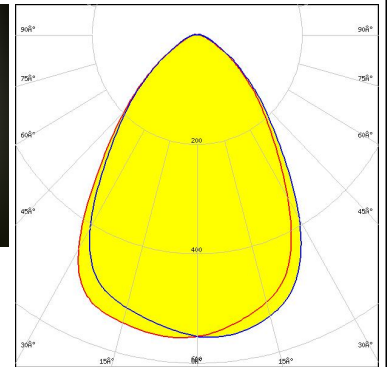
LED OSLON Square PC  
 FWHM / FWTM 95.0° / 130.0°  
 Efficiency 92 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

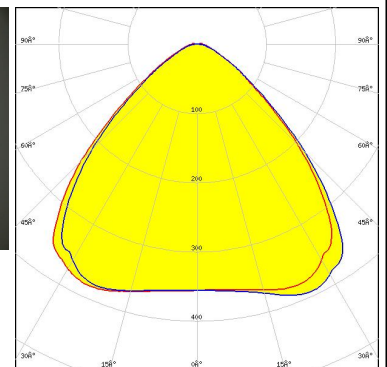
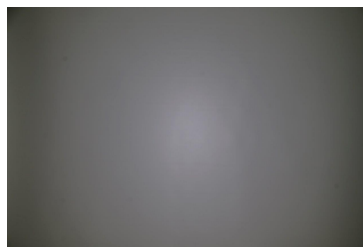
LED OSLON SSL 80  
 FWHM / FWTM 76.0° / 123.0°  
 Efficiency 94 %  
 Peak intensity 0.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**PHILIPS**

LED Fortimo FastFlex LED 2x6 DP G4  
 FWHM / FWTM 95.0° / 132.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

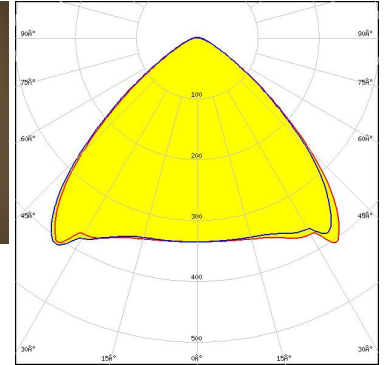


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### PHILIPS

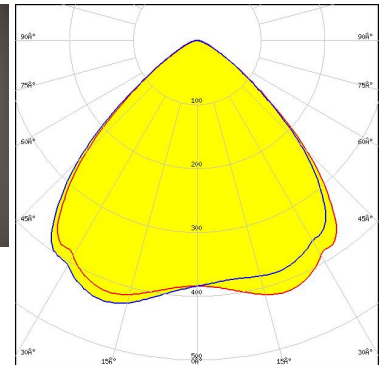
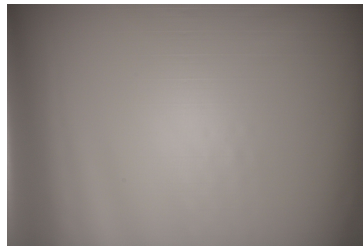
LED Fortimo FastFlex LED 2x6 DP G5  
FWHM / FWTM 96.0° / 125.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### PHILIPS

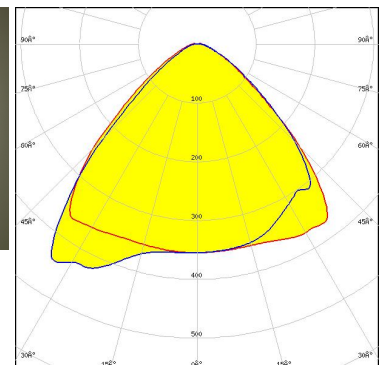
LED Fortimo FastFlex LED 2x6 DP HE  
FWHM / FWTM 93.0° / 122.0°  
Efficiency 97 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED HiLOM RH12 (LH351C)  
FWHM / FWTM 94.0° / 130.0°  
Efficiency 93 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

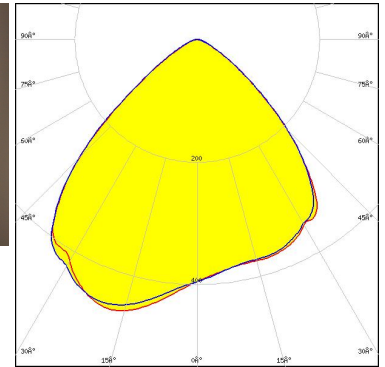
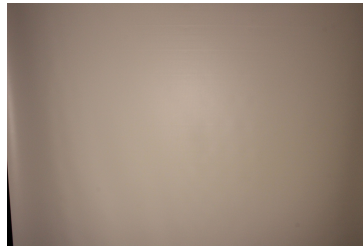


Light distribution files

#### OPTICAL RESULTS (MEASURED):

### SAMSUNG

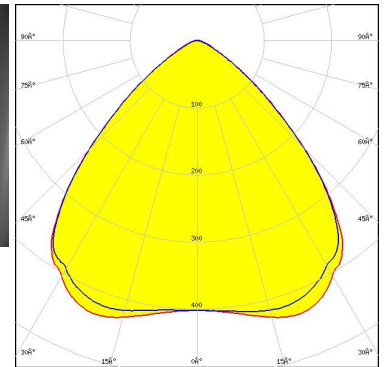
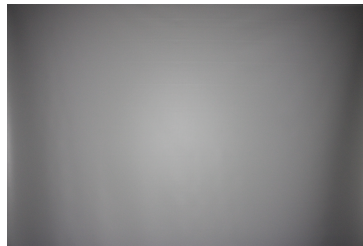
LED HiLOM RM12 ZP (LH502C)  
 FWHM / FWTM 92.0° / 122.0°  
 Efficiency 96 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SCIOLUX

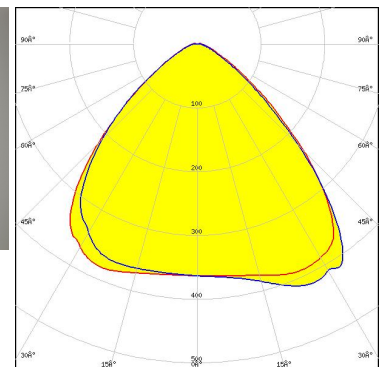
LED BALAM-VP-5250-750-36  
 FWHM / FWTM 91.0° / 122.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

### SCIOLUX

LED XLE-S22C4XTEHE (XT-E HE)  
 FWHM / FWTM 95.0° / 129.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:


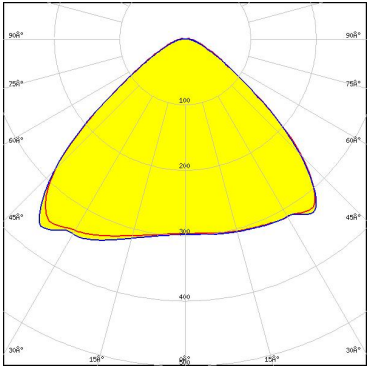


Light distribution files

#### OPTICAL RESULTS (MEASURED):

**SCIOLUX**

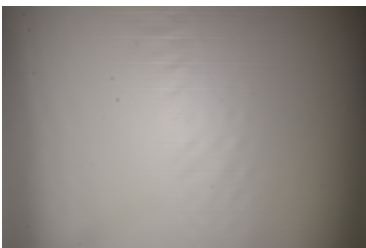
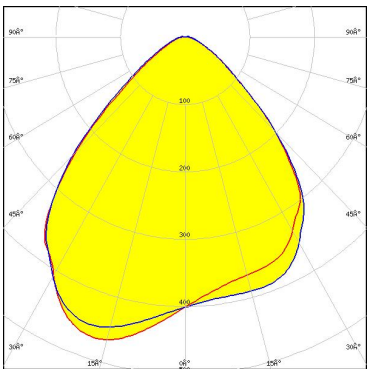
|                      |                         |
|----------------------|-------------------------|
| LED                  | XLE-S26XHP35 (XHP35 HD) |
| FWHM / FWTM          | 104.0° / 139.0°         |
| Efficiency           | 93 %                    |
| Peak intensity       | 0.4 cd/lm               |
| LEDs/each optic      | 1                       |
| Light colour/type    | White                   |
| Required components: |                         |

Light distribution files

**SEOLUX**  
SEOUL SEMICONDUCTOR

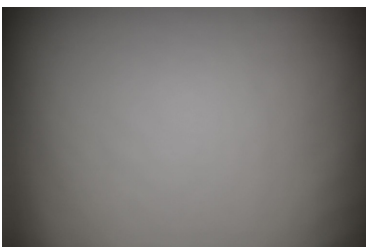
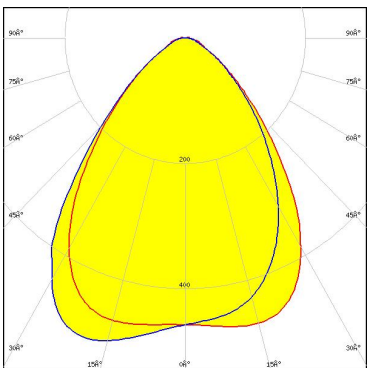
|                      |                                    |
|----------------------|------------------------------------|
| LED                  | 2x6 5050 module - SMJD-3625012F-XX |
| FWHM / FWTM          | 88.0° / 125.0°                     |
| Efficiency           | 94 %                               |
| Peak intensity       | 0.5 cd/lm                          |
| LEDs/each optic      | 1                                  |
| Light colour/type    | White                              |
| Required components: |                                    |

Light distribution files

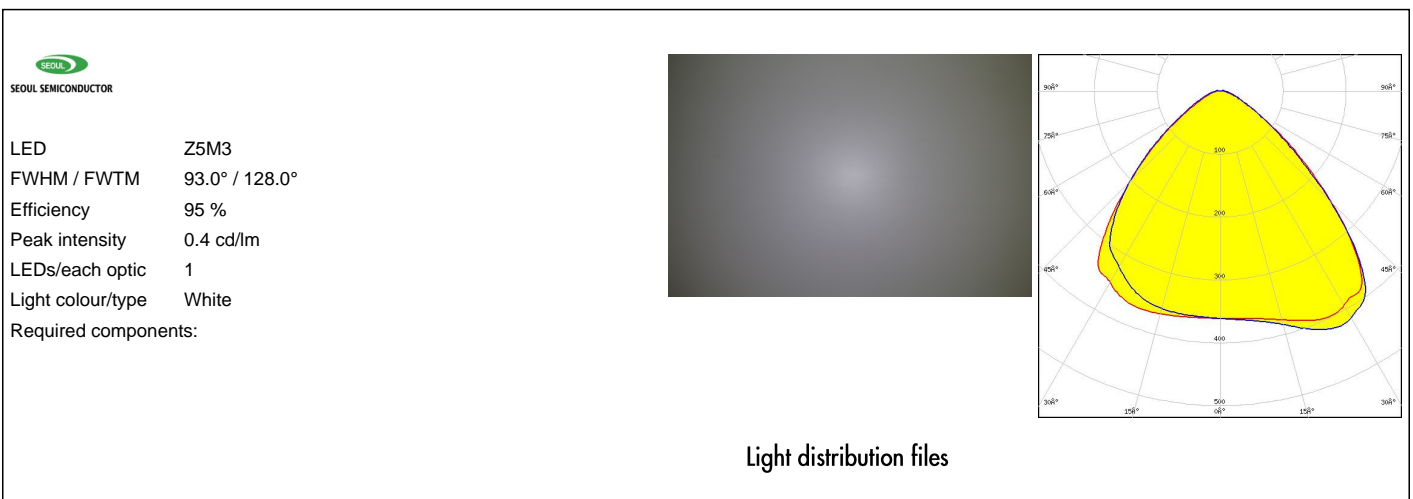
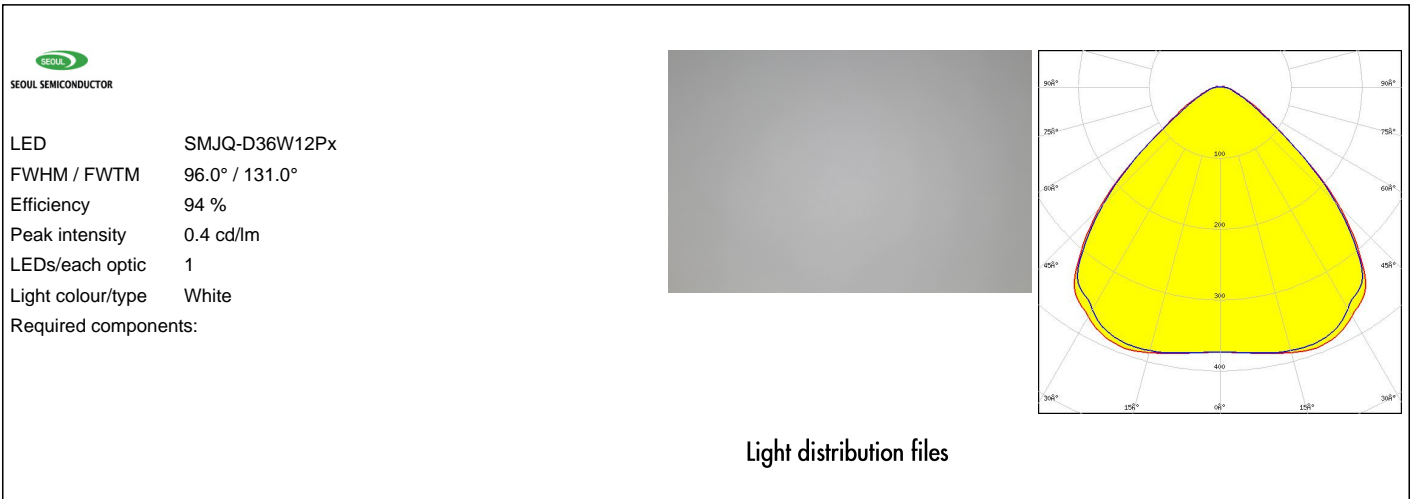
**SEOLUX**  
SEOUL SEMICONDUCTOR

|                      |                |
|----------------------|----------------|
| LED                  | SMJQ-D36W12Mx  |
| FWHM / FWTM          | 79.0° / 123.0° |
| Efficiency           | 94 %           |
| Peak intensity       | 0.5 cd/lm      |
| LEDs/each optic      | 1              |
| Light colour/type    | White          |
| Required components: |                |

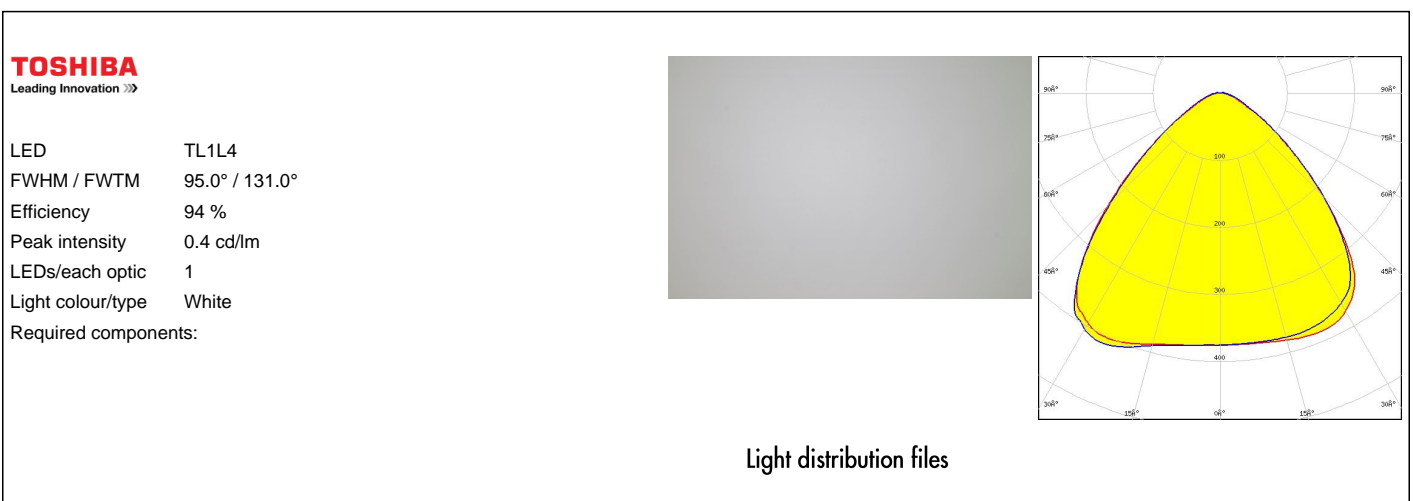
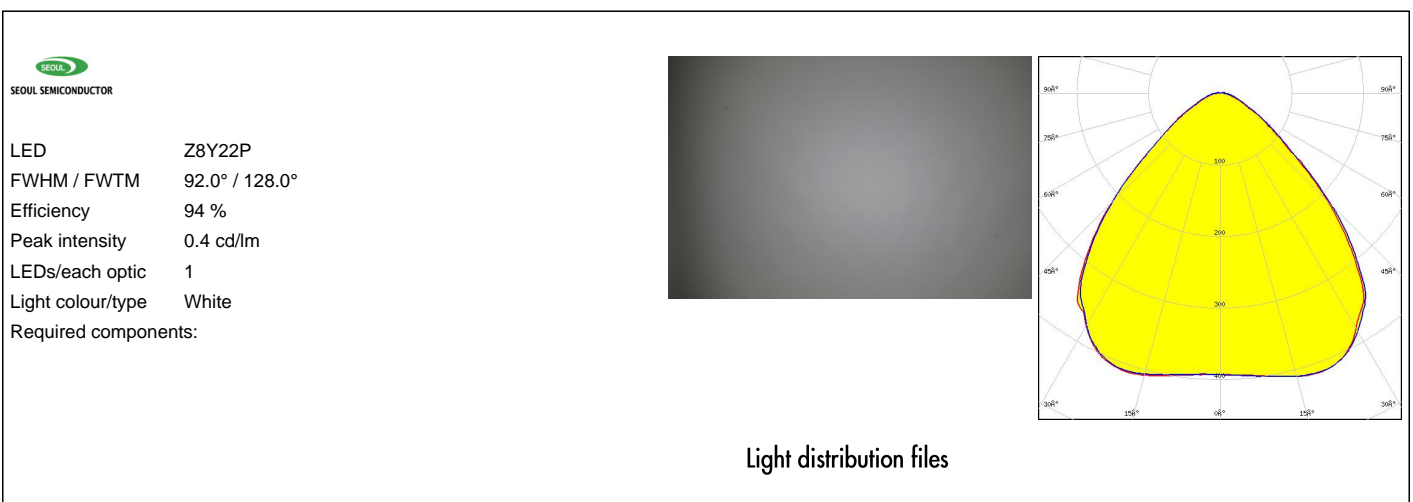



Light distribution files

#### OPTICAL RESULTS (MEASURED):



#### OPTICAL RESULTS (MEASURED):

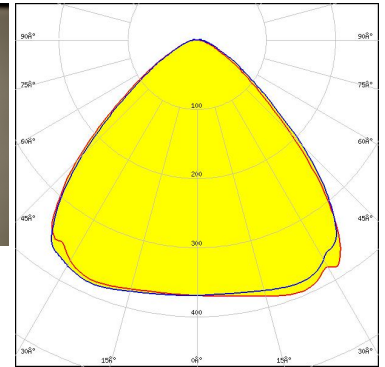




### OPTICAL RESULTS (MEASURED):

#### TRIDONIC

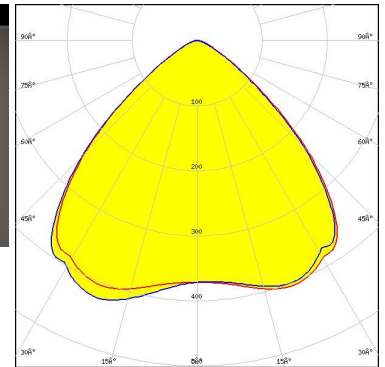
LED RLE 2x6 3000lm HP EXC2 OTD  
FWHM / FWTM 94.0° / 130.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### TRIDONIC

LED RLE 2x6 4500lm HP HE EXC3 OTD Z19  
FWHM / FWTM 94.0° / 122.0°  
Efficiency 97 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

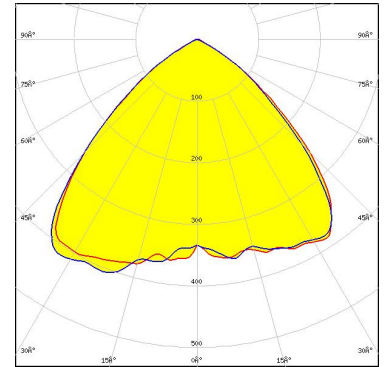


Light distribution files

### OPTICAL RESULTS (SIMULATED):



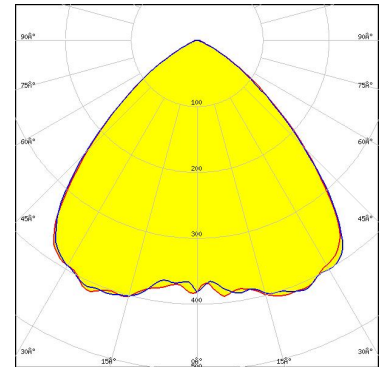
LED J Series 5050 Round LES  
 FWHM / FWTM 98.0° / 130.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



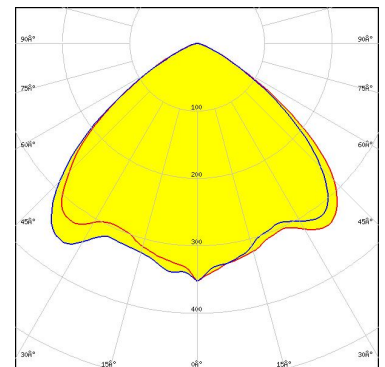
LED J Series 5050B 6V K Class  
 FWHM / FWTM 94.0° / 123.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED MHB-A/B  
 FWHM / FWTM 106.0° / 131.0°  
 Efficiency 87 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

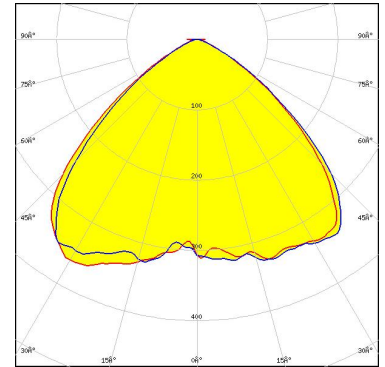


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



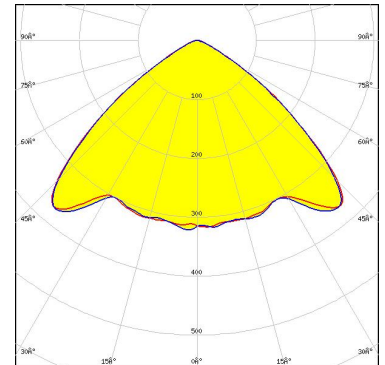
LED XHP35 HD  
FWHM / FWTM 101.0° / 129.0°  
Efficiency 91 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



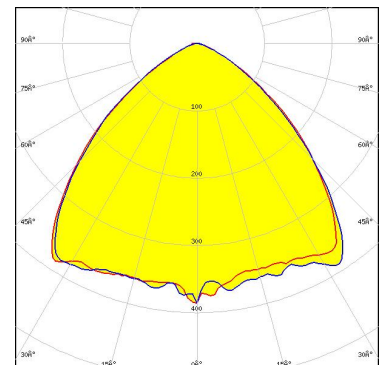
LED XM-L RGBW (XMLDCL HD)  
FWHM / FWTM 106.0° / 128.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type RGBW  
Required components:



Light distribution files



LED XP-E  
FWHM / FWTM 99.0° / 129.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

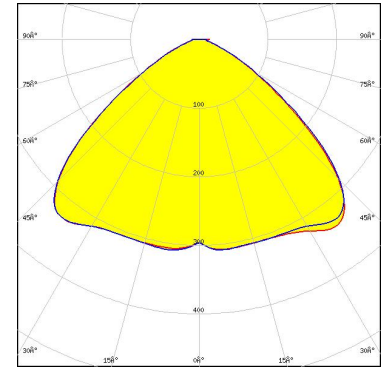


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



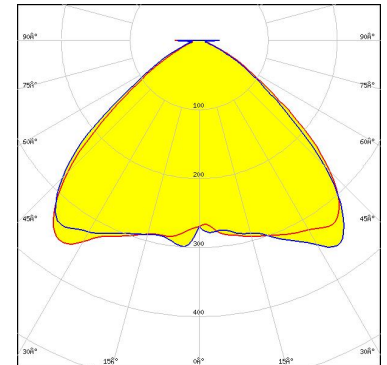
LED XP-G2 HE  
 FWHM / FWTM 108.0° / 140.0°  
 Efficiency 93 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



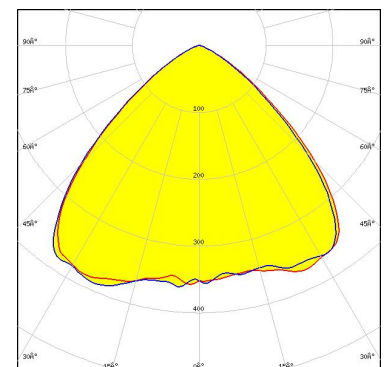
LED XP-G3  
 FWHM / FWTM 95.0° / 145.0°  
 Efficiency 91 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED LUXEON 5050 Round LES  
 FWHM / FWTM 98.0° / 130.0°  
 Efficiency 90 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



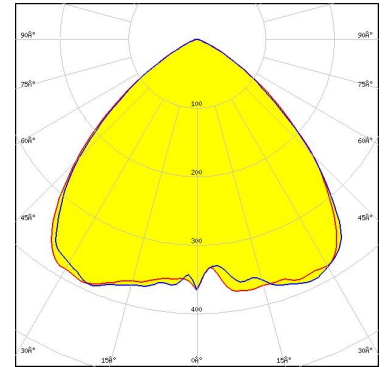
Protective plate, glass

Light distribution files

#### OPTICAL RESULTS (SIMULATED):



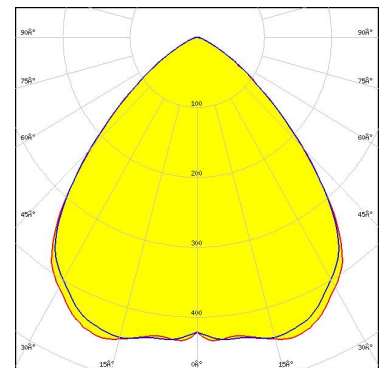
LED LUXEON 5050 Round LES  
 FWHM / FWTM 92.0° / 125.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



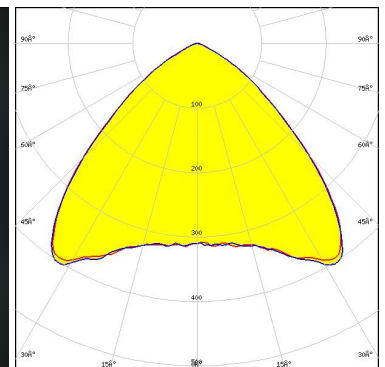
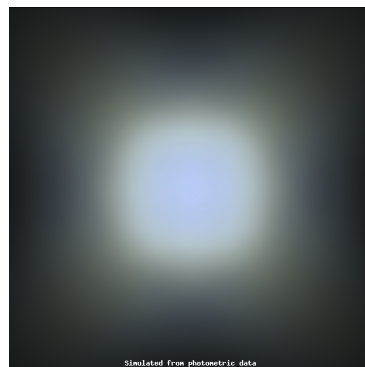
LED LUXEON 5050 Square LES  
 FWHM / FWTM 90.0° / 122.0°  
 Efficiency 96 %  
 Peak intensity 0.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED SST-20 Gen2  
 FWHM / FWTM 96.0 + 95.0° / 126.0 + 124.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

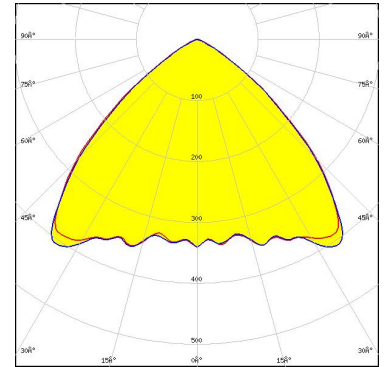


Light distribution files

### OPTICAL RESULTS (SIMULATED):



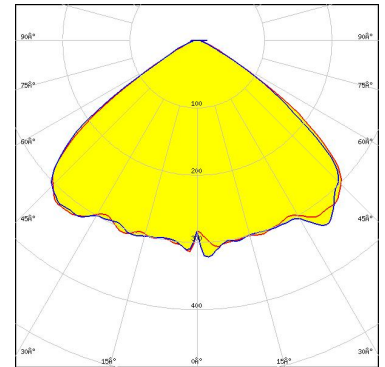
LED NV4WB35AM  
FWHM / FWTM 98.0° / 123.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



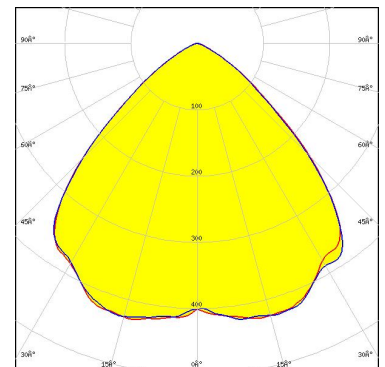
LED NVSW219F  
FWHM / FWTM 110.0° / 132.0°  
Efficiency 92 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSxE21A  
FWHM / FWTM 94.0° / 122.0°  
Efficiency 95 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 4  
Light colour/type White  
Required components:

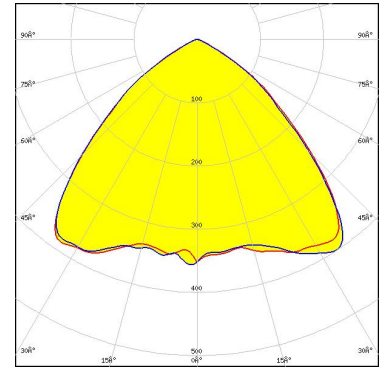


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### OSRAM

LED PrevaLED Brick HP IP 2x6  
FWHM / FWTM 98.0° / 124.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

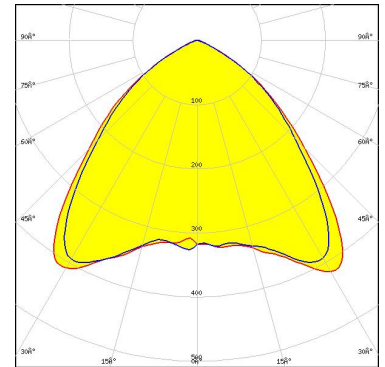


Light distribution files

#### OSRAM

Opto Semiconductors

LED OSCONIQ P 3030  
FWHM / FWTM 94.0° / 126.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

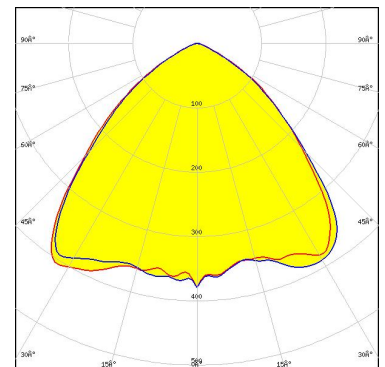


Light distribution files

#### OSRAM

Opto Semiconductors

LED OSCONIQ P 3737 (2W version)  
FWHM / FWTM 95.0° / 127.0°  
Efficiency 94 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

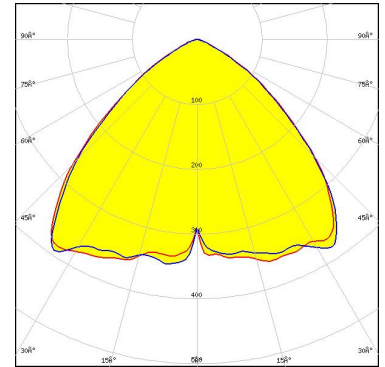


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

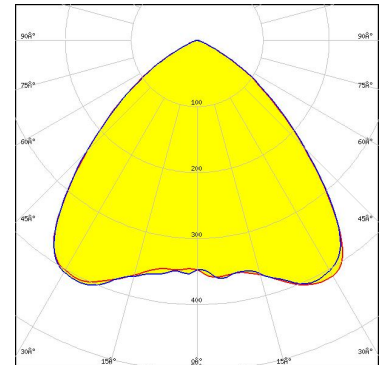
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 98.0° / 127.0°  
 Efficiency 94 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

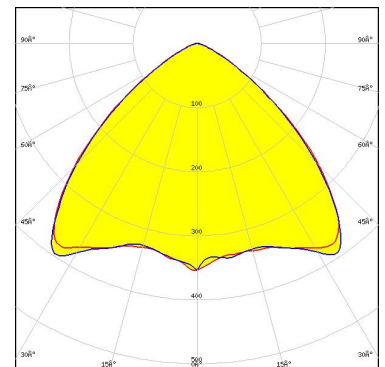
LED OSCONIQ P 3737 Flat  
 FWHM / FWTM 94.0° / 126.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 100.0° / 128.0°  
 Efficiency 96 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



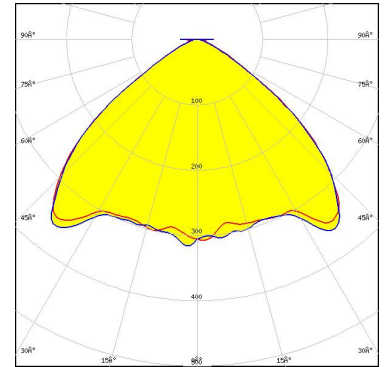
Light distribution files



### OPTICAL RESULTS (SIMULATED):

#### PHILIPS

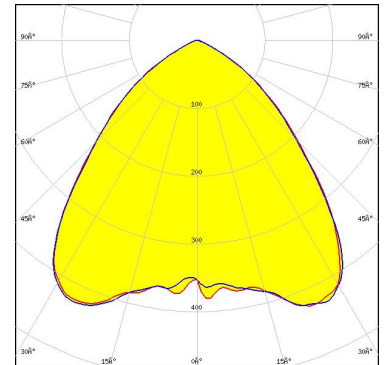
|                      |                                 |
|----------------------|---------------------------------|
| LED                  | Fortimo FastFlex LED 2x6 DPX G4 |
| FWHM / FWTM          | 105.0° / 92.0°                  |
| Efficiency           | 94 %                            |
| Peak intensity       | 0.4 cd/lm                       |
| LEDs/each optic      | 1                               |
| Light colour/type    | White                           |
| Required components: |                                 |



Light distribution files

#### SAMSUNG

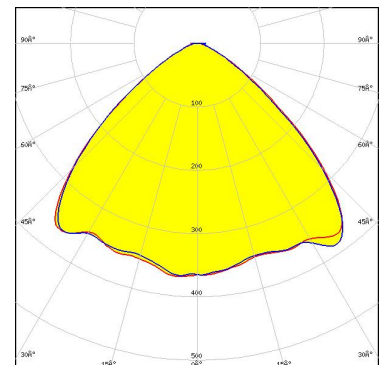
|                      |                |
|----------------------|----------------|
| LED                  | LH181B         |
| FWHM / FWTM          | 90.0° / 124.0° |
| Efficiency           | 96 %           |
| Peak intensity       | 0.4 cd/lm      |
| LEDs/each optic      | 1              |
| Light colour/type    | White          |
| Required components: |                |



Light distribution files

#### SAMSUNG

|                      |                 |
|----------------------|-----------------|
| LED                  | LH351B          |
| FWHM / FWTM          | 100.0° / 130.0° |
| Efficiency           | 94 %            |
| Peak intensity       | 0.4 cd/lm       |
| LEDs/each optic      | 1               |
| Light colour/type    | White           |
| Required components: |                 |

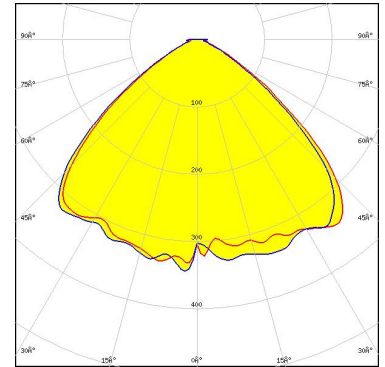


Light distribution files

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

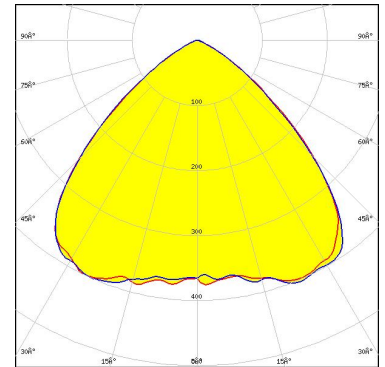
LED LH351D  
FWHM / FWTM 107.0° / 145.0°  
Efficiency 92 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

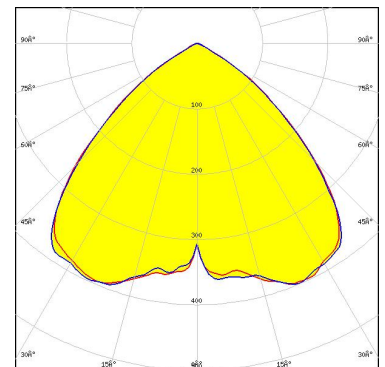
LED LH502C  
FWHM / FWTM 96.0° / 124.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

#### SAMSUNG

LED LH502D  
FWHM / FWTM 98.0° / 120.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

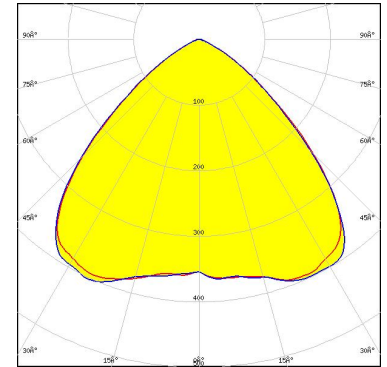


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



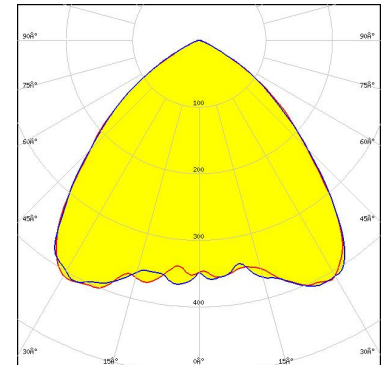
LED BALAM-VP-5250-750-36  
FWHM / FWTM 96.0° / 124.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



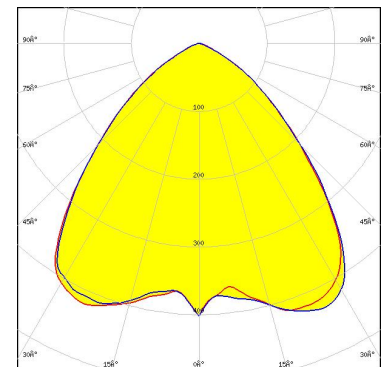
LED Z5M4  
FWHM / FWTM 94.0° / 125.0°  
Efficiency 96 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED Z8Y22T  
FWHM / FWTM 93.0° / 131.0°  
Efficiency 94 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

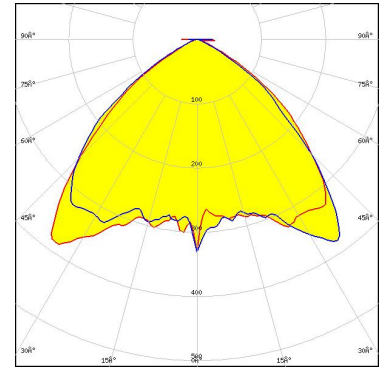


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**TOSHIBA**  
Leading Innovation >>>

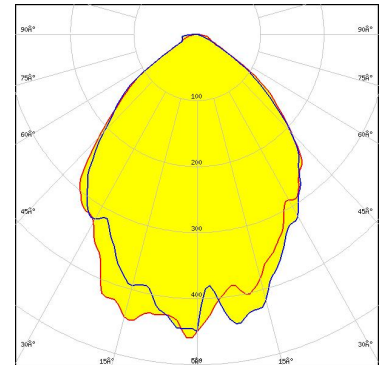
LED TL1L2  
FWHM / FWTM 100.0° / 125.0°  
Efficiency 91 %  
Peak intensity 0.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**TOSHIBA**  
Leading Innovation >>>

LED TL1L3  
FWHM / FWTM Asymmetric  
Efficiency 84 %  
Peak intensity 0.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



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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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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