

# HB-2X2-W

~50° wide beam

#### **SPECIFICATION:**

Dimensions	50.0 x 50.0 mm
Height	8.5 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



PRODUCT DATASHEET C12361\_HB-2X2-W

### **MATERIALS:**

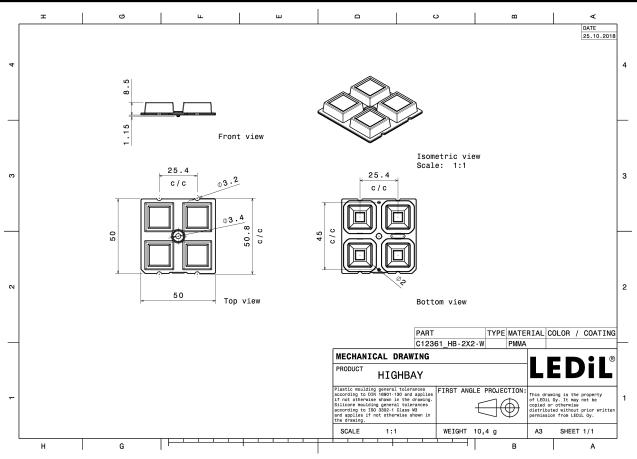
Component	Туре	Material	Colour	Finish	Length (mm)
HB-2X2-W	Multi-lens	PMMA	clear		

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C12361_HB-2X2-W	800	160	160	9.1
» Box size: 480 x 280 x 300 mm				



# PRODUCT DATASHEET C12361\_HB-2X2-W

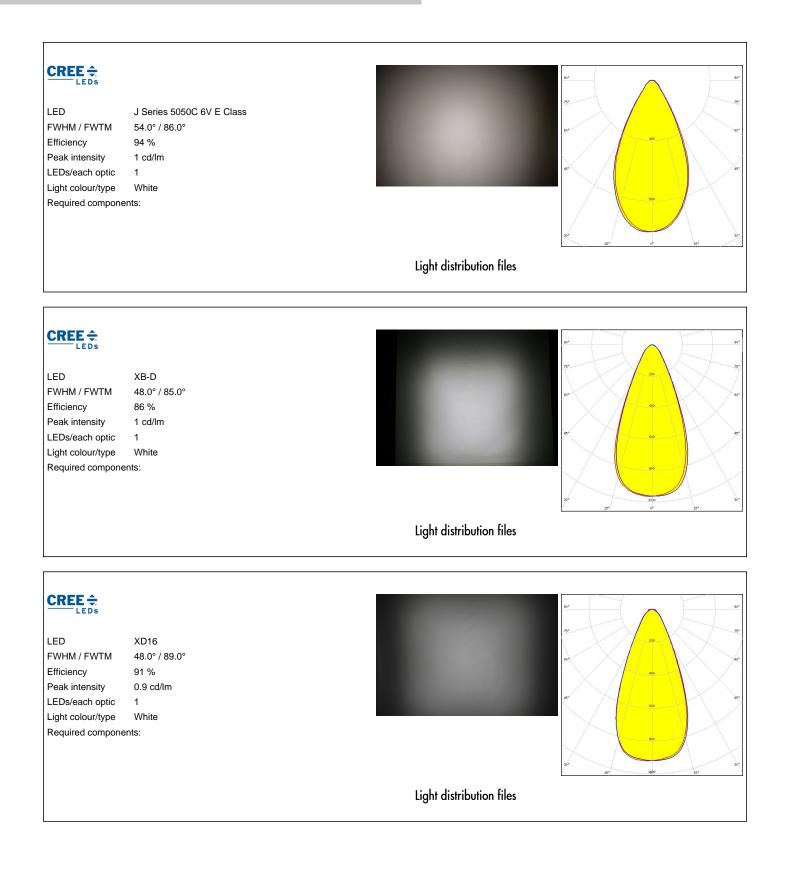


See also our general installation guide: <u>www.ledil.com/installation\_guide</u>

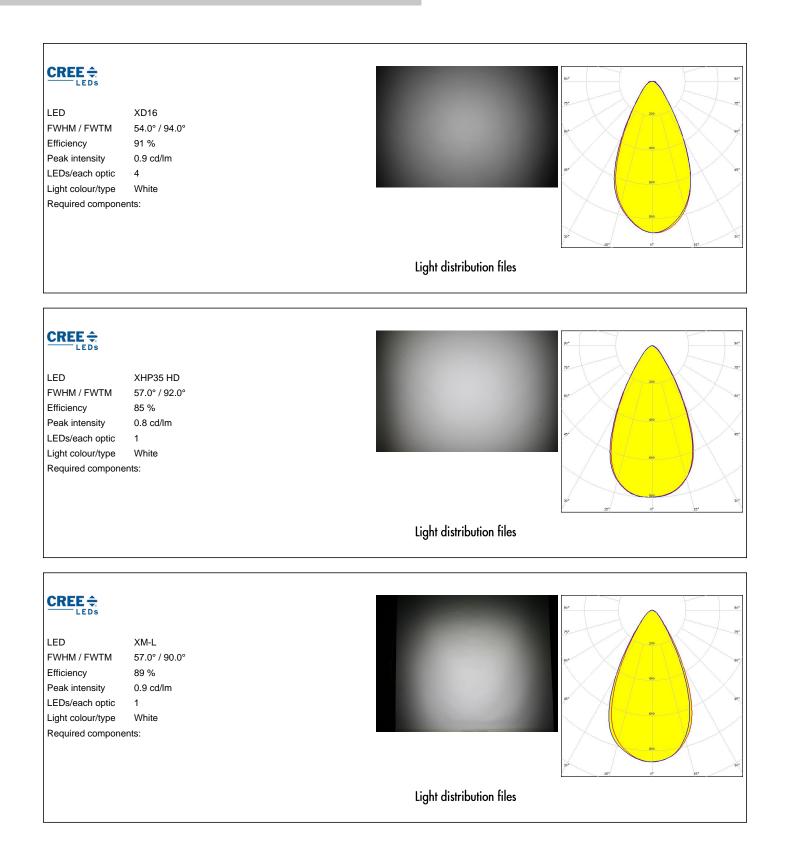


bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	Bridgelux SMD 5050 55.0° / 93.0° 94 % 0.9 cd/lm 1 White nts:	
		Light distribution files
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	QUICK FLUX XTP 2x4 xxx LS G5 52.0° / 85.0° 94 % 1 cd/lm 1 White nts:	Light distribution files
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	QUICK FLUX XTP 2x6 xxx LS G5 52.0° / 86.0° 94 % 1 cd/lm 1 White nts:	Light distribution files

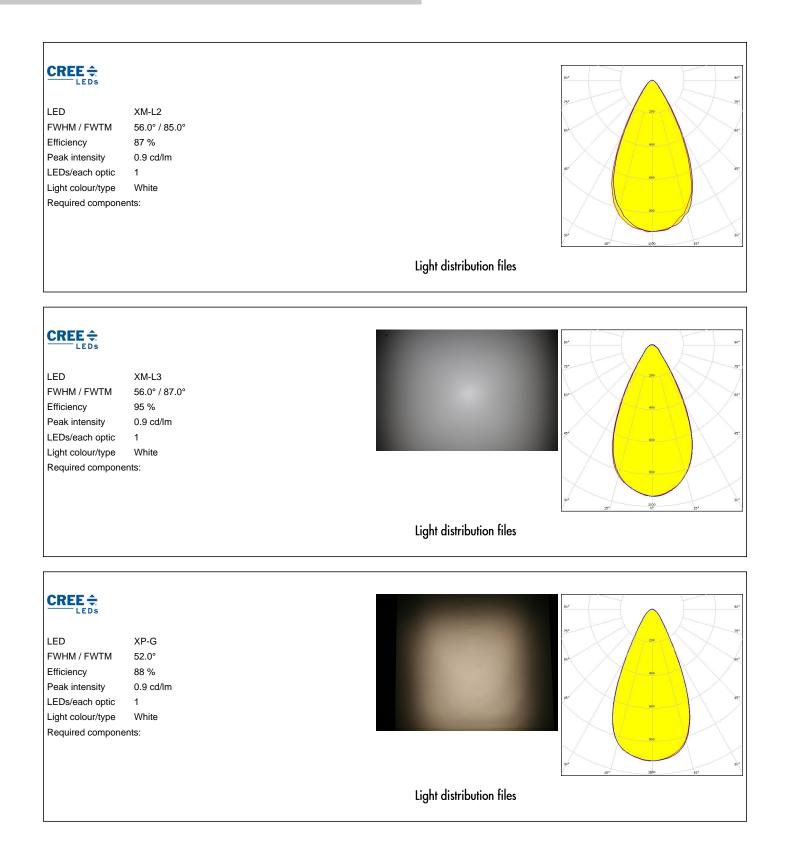




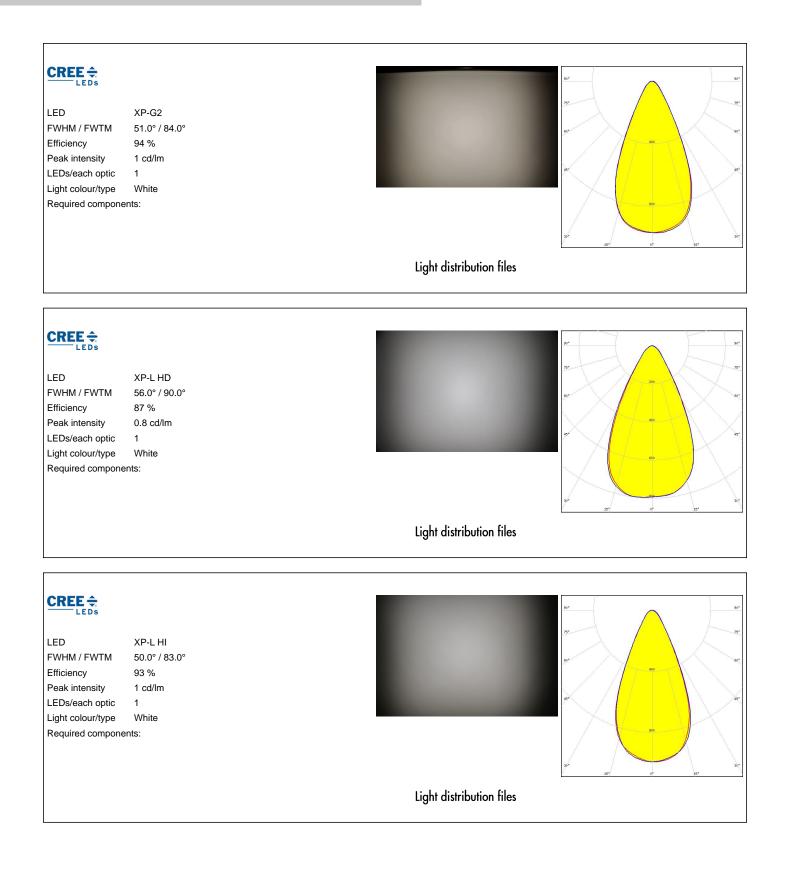




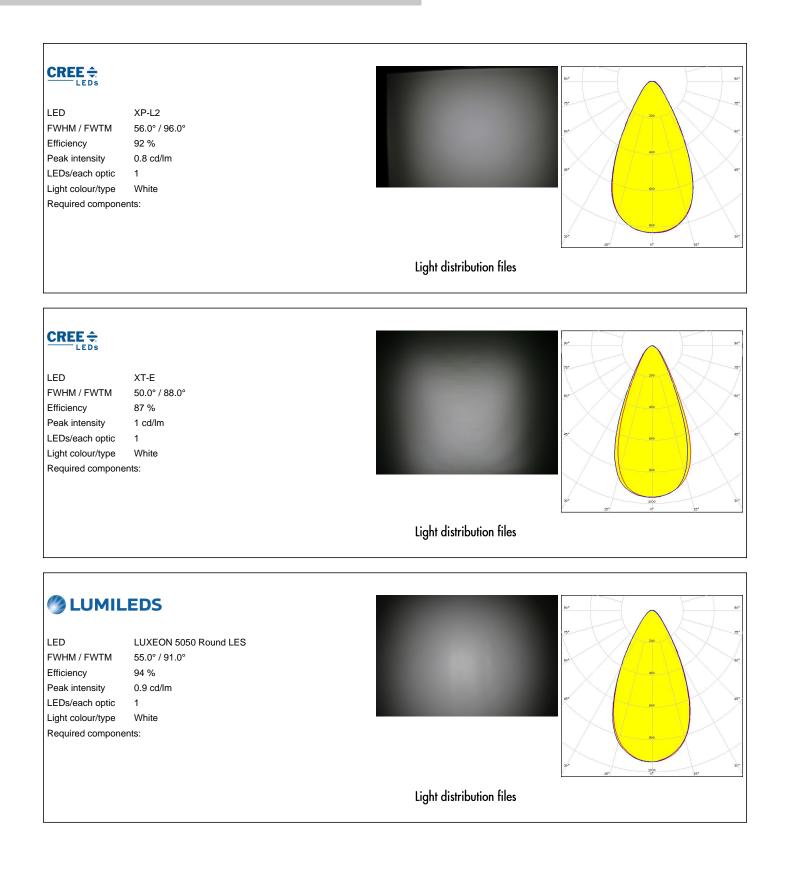








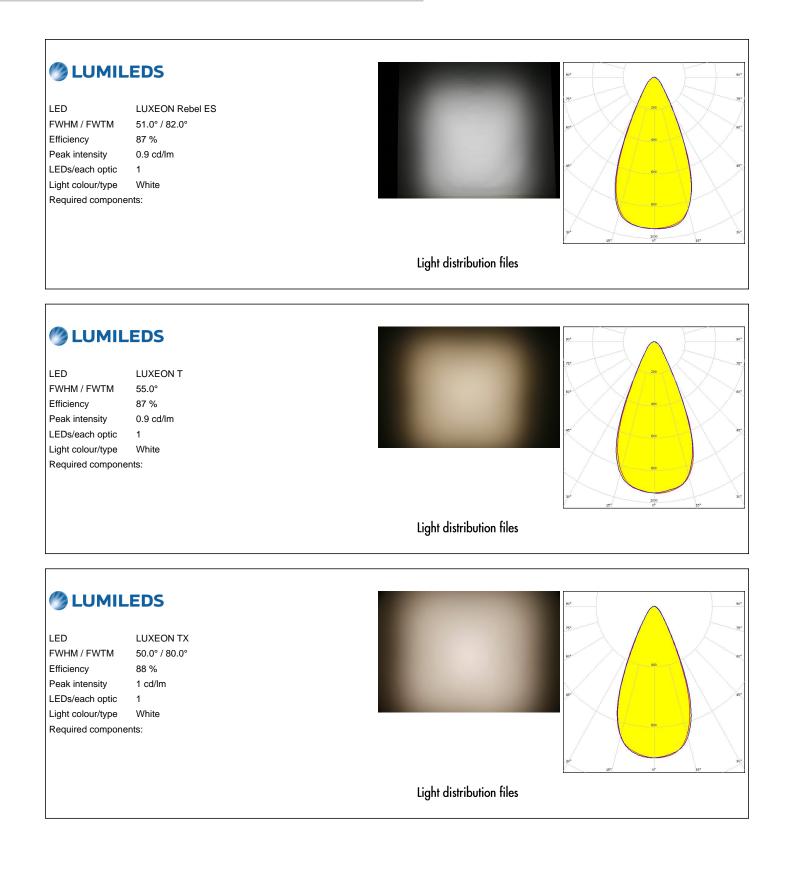




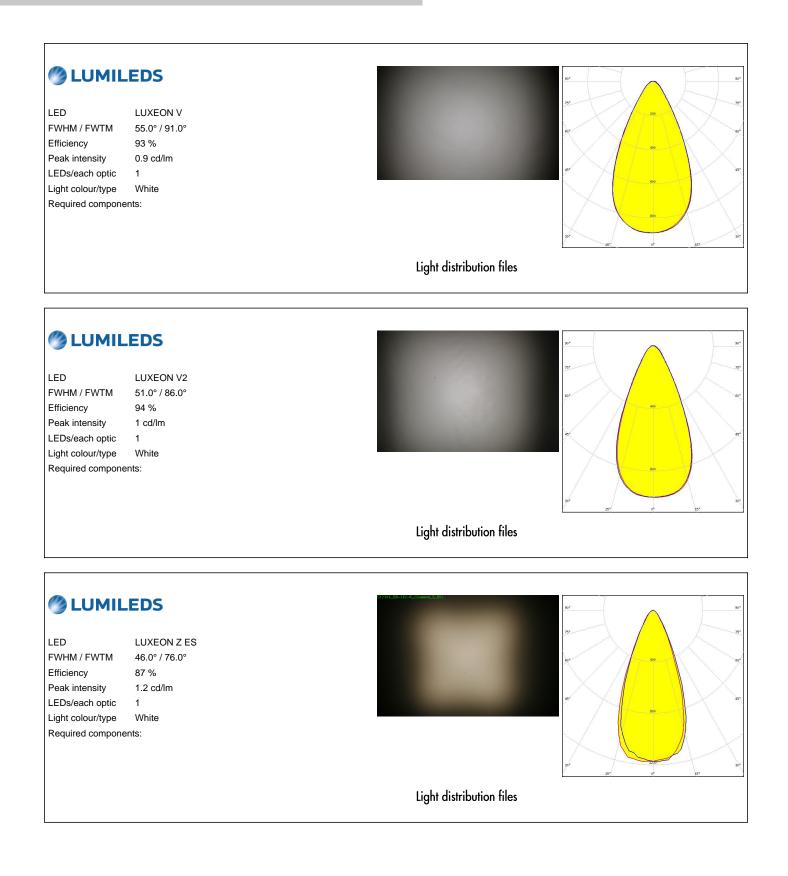


#### LUMILEDS LUXEON 5050 Square LES LED FWHM / FWTM 55.0° / 91.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUMILEDS LED LUXEON MZ FWHM / FWTM 53.0° / 86.0° Efficiency 92 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LED LUXEON Q FWHM / FWTM 50.0° / 86.0° Efficiency 86 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files

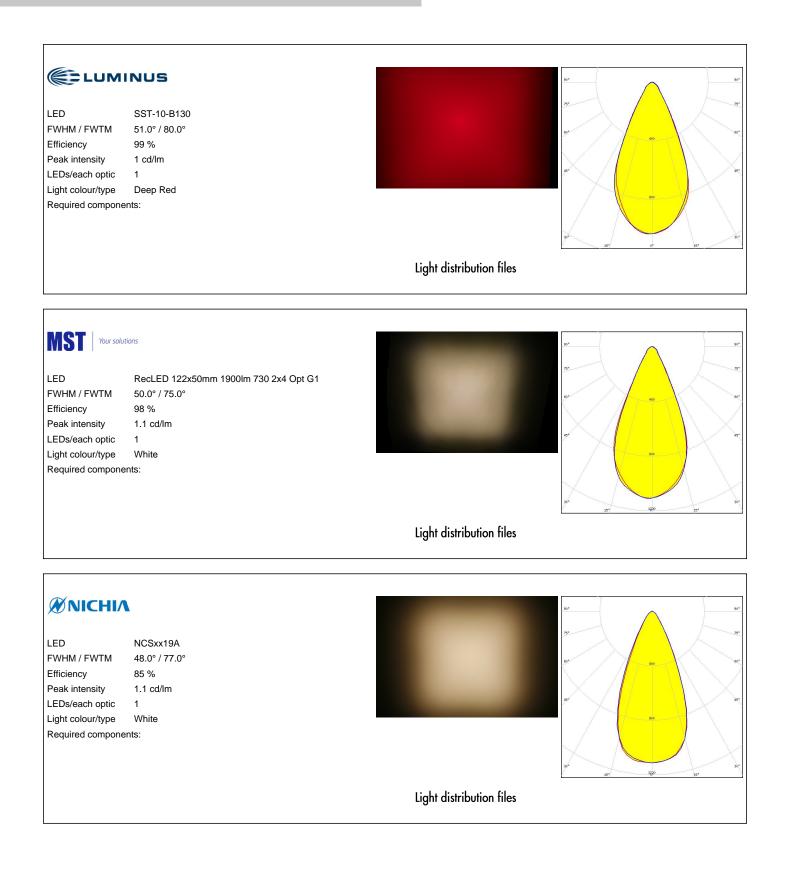




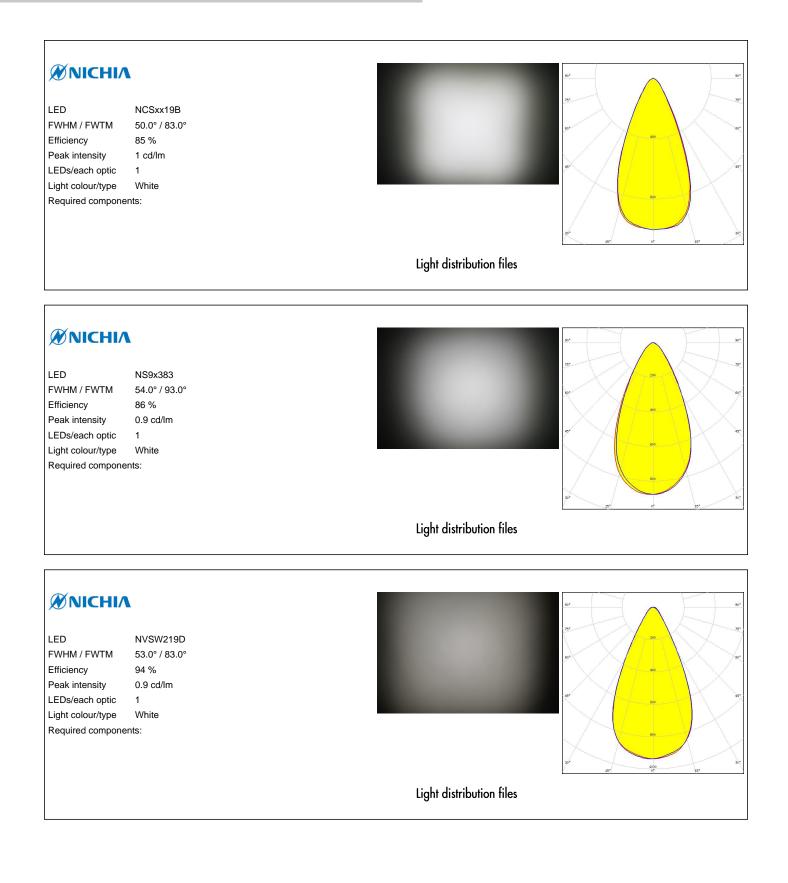






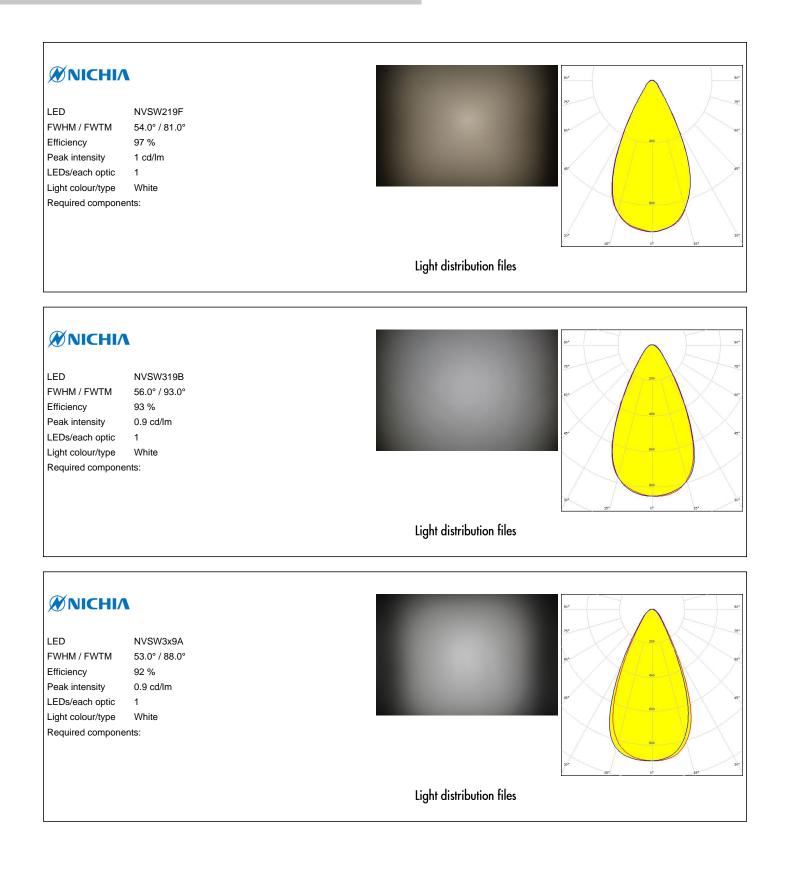






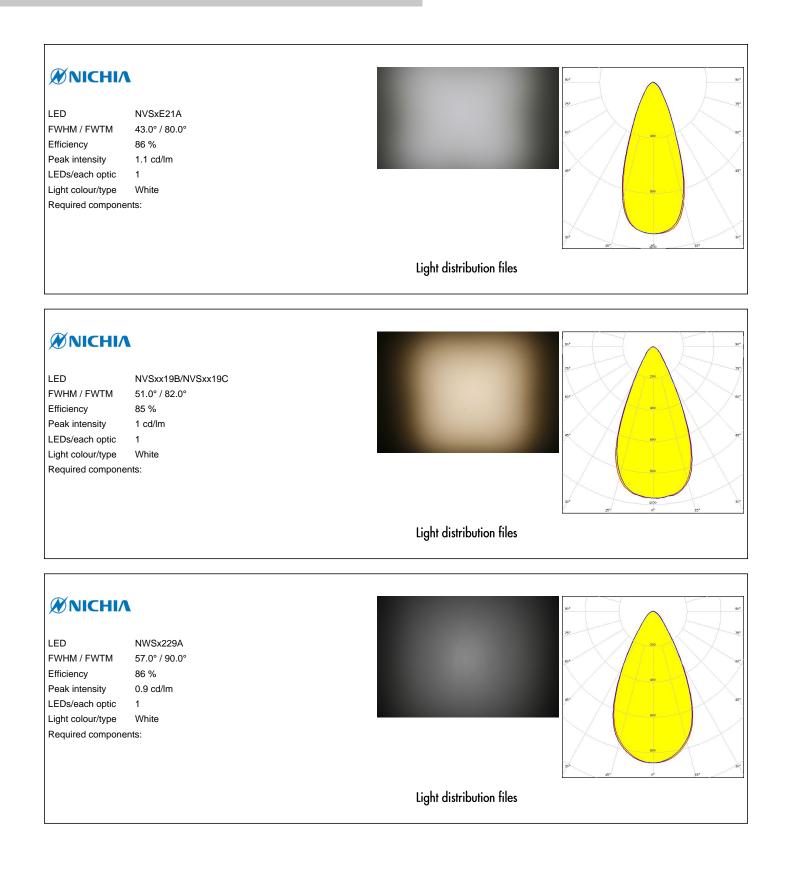


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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	OLP-5065F6L-06A 56.0° / 90.0° 88 % 0.9 cd/lm 1 White	
		Light distribution files
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	PL-BRICK HP 3800 2x8 SSG 52.0° / 75.0° 98 % 1.1 cd/lm 1 White	Light distribution files
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Duris S8 55.0° / 91.0° 93 % 1 cd/lm 1 White Ints:	Light distribution files

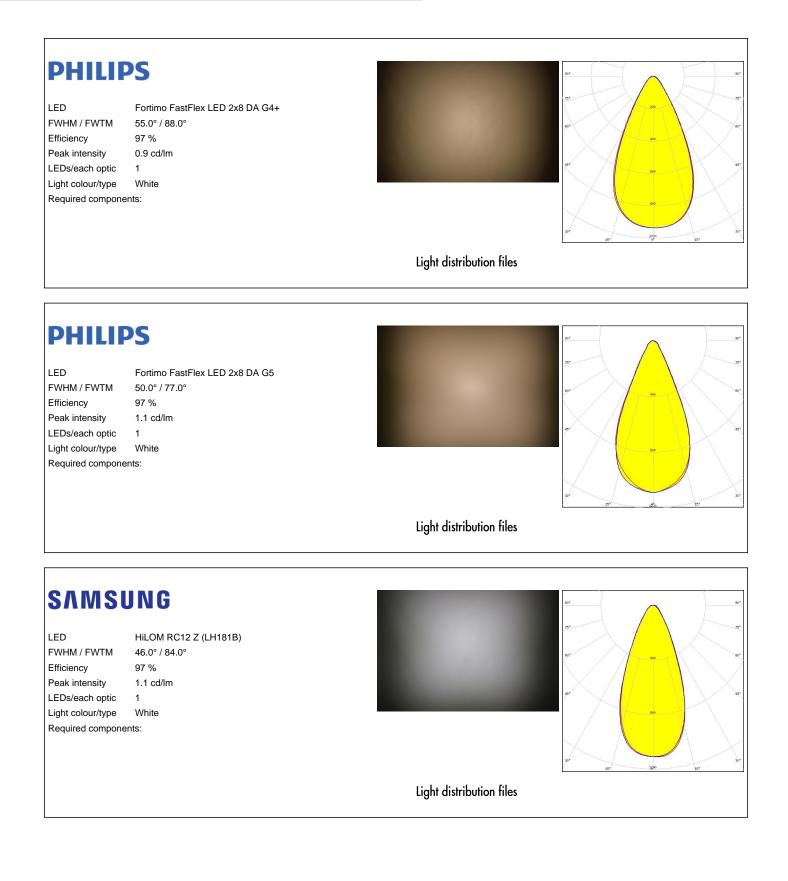


LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	OSCONIQ C 3030 47.0° / 76.0° 96 % 1.2 cd/lm 1 White ents:	Light distribution files
		Light distribution files
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	OSCONIQ C 3030 47.0° / 76.0° 96 % 1.2 cd/lm 1	
LEDs/each optic Light colour/type Required compone	White ents:	
Light colour/type		Light distribution files
Light colour/type Required compon Opto Semiconductors LED FWHM / FWTM	OSLON Square PC 54.0° / 85.0°	Light distribution files
Light colour/type Required compon	ents: OSLON Square PC 54.0° / 85.0° 87 % 0.9 cd/lm 1 White	50* 50*



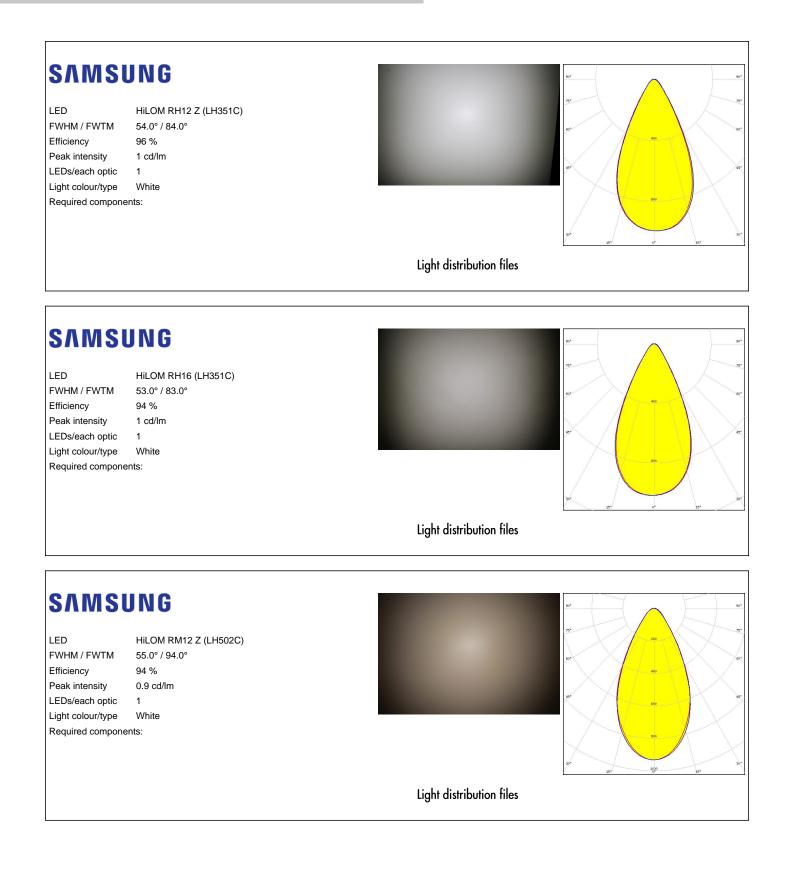
OSRAM Opto Semiconductors	OSLON SSL 80 43.0° / 70.0° 89 % 1.3 cd/lm 1 White ints:	Light distribution files	90 <sup>4</sup> 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90
		Light distribution files	
PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Fortimo FastFlex LED 2x8 DA (U)HE 54.0° / 87.0° 97 % 1 cd/lm 1 White	Light distribution files	
<b>PHILLE</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Fortimo FastFlex LED 2x8 DA G4 52.0° / 82.0° 94 % 1 cd/lm 1 White	Light distribution files	39, 72, 0, 72, 24,   64, 66, 66, 66, 66,   65, 66, 66, 66, 66,   35, 66, 66, 66, 66,   36, 66, 66, 66, 66, 66,   36, 66, <







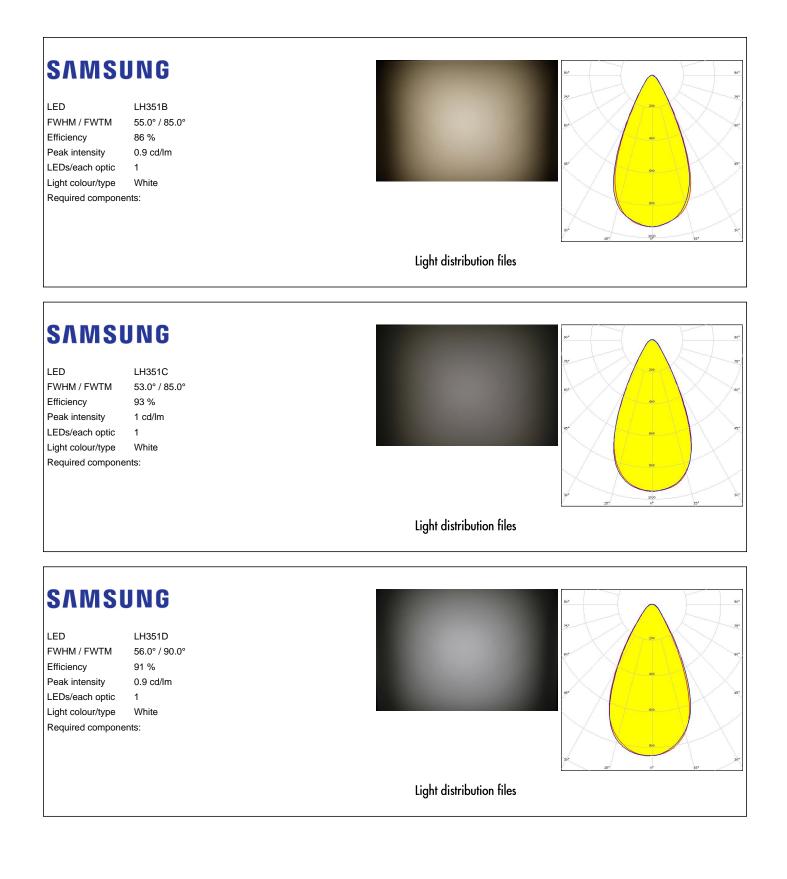
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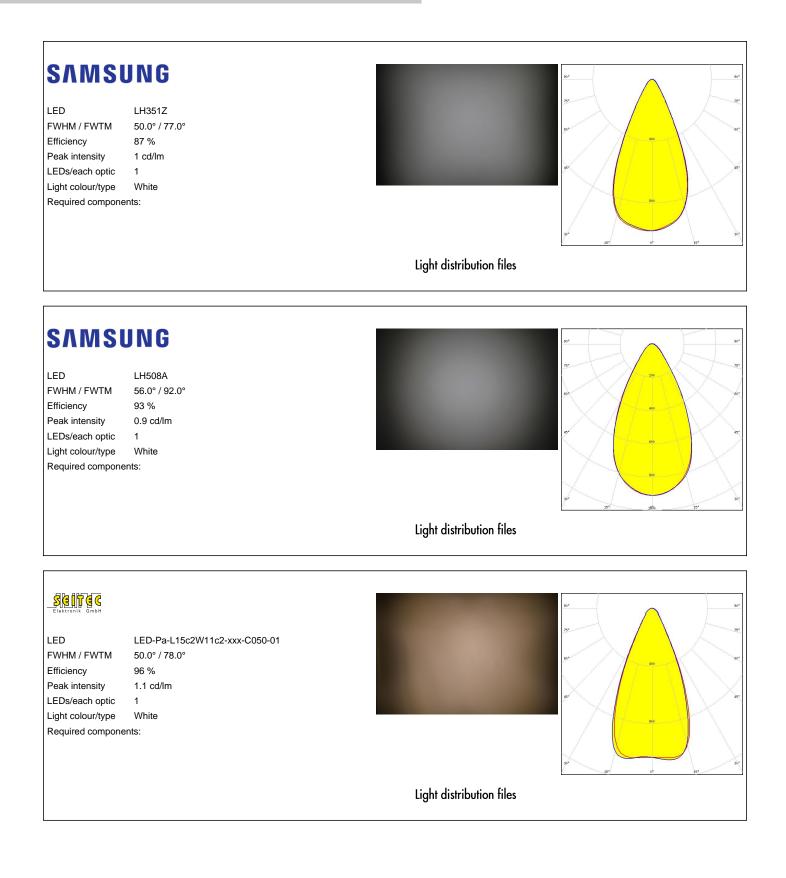


#### SAMSUNG LED HiLOM RM16 Z (LH502C) FWHM / FWTM 55.0° / 95.0° Efficiency 96 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED HiLOM RM8 Z (LH502C) FWHM / FWTM 56.0° / 95.0° Efficiency 96 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED LH351A FWHM / FWTM 49.0° / 81.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files











SEQUE SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	2x2 Y22 module - SMJQ-D48W16AA-XX 54.0° / 102.0° 92 % 0.8 cd/lm 1 White nts:	Light distribution files
SEQUE SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	Z5 48.0° / 80.0° 88 % 1 cd/lm 1 White nts:	Light distribution files
SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	Z5M1/Z5M2 51.0° / 82.0° 85 % 1 cd/lm 1 White nts:	
		Light distribution files

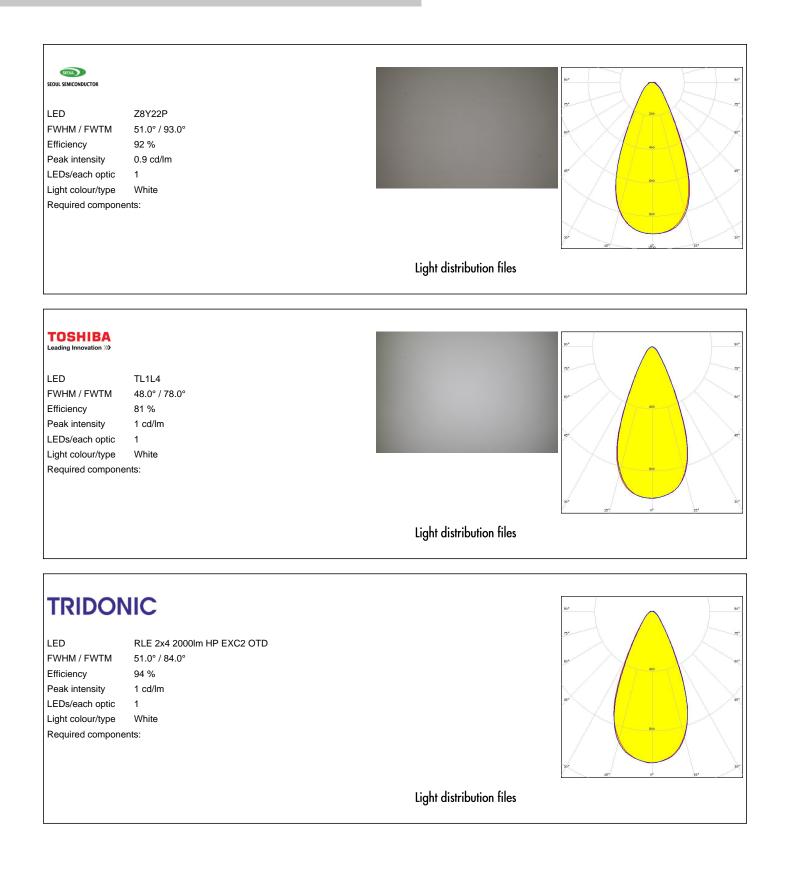


SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z5M3 53.0° / 93.0° 94 % 0.9 cd/lm 1 White ints:	
		Light distribution files
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z5M4 54.0° / 80.0° 97 % 1 cd/lm 1 White ints:	Light distribution files
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y15 45.0° / 89.0° 79 % 0.9 cd/lm 1 White mts:	Light distribution files



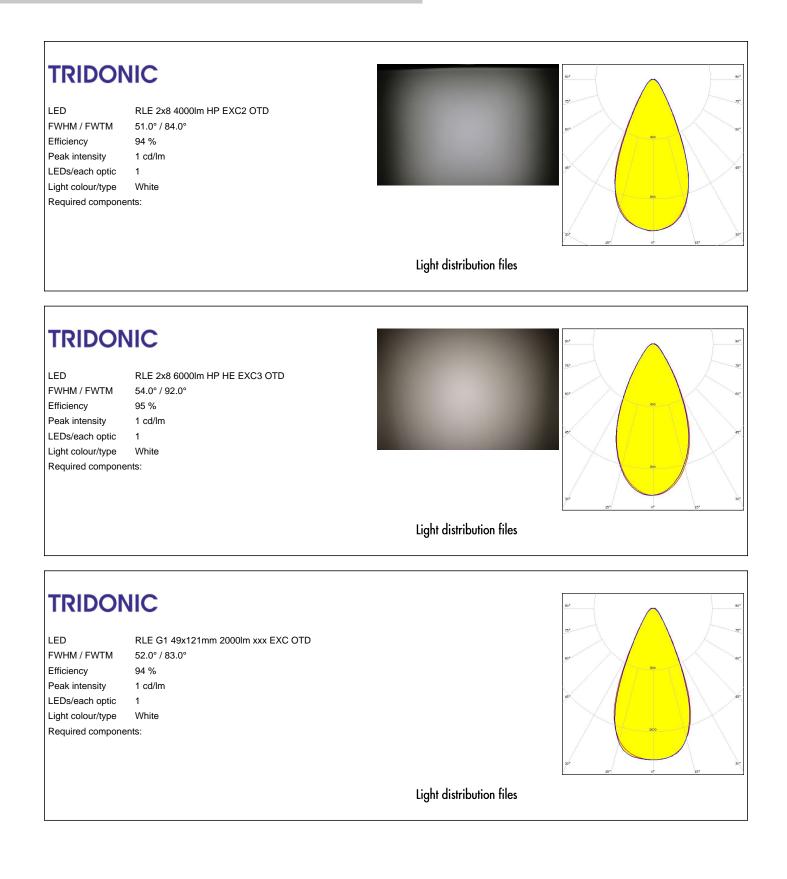
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y19 54.0° / 102.0° 92 % 0.8 cd/lm 4 White ents:	
		Light distribution files
SEQUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y19 46.0° / 89.0° 79 % 0.9 cd/lm 1 White ents:	Light distribution files
SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y22 48.0° / 94.0° 92 % 0.9 cd/lm 1 White ents:	Light distribution files







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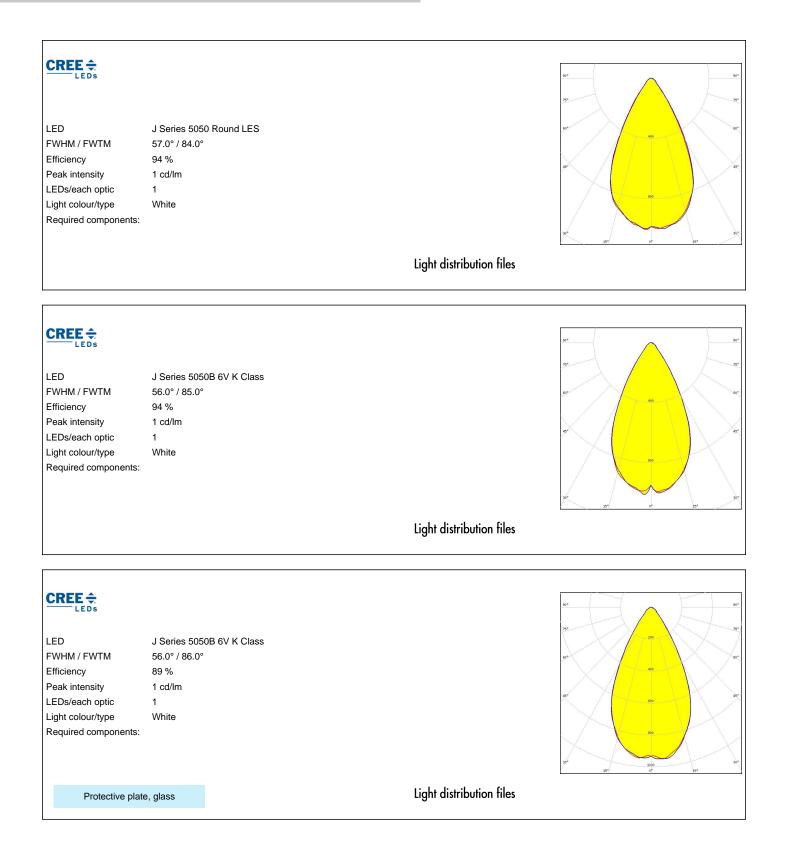




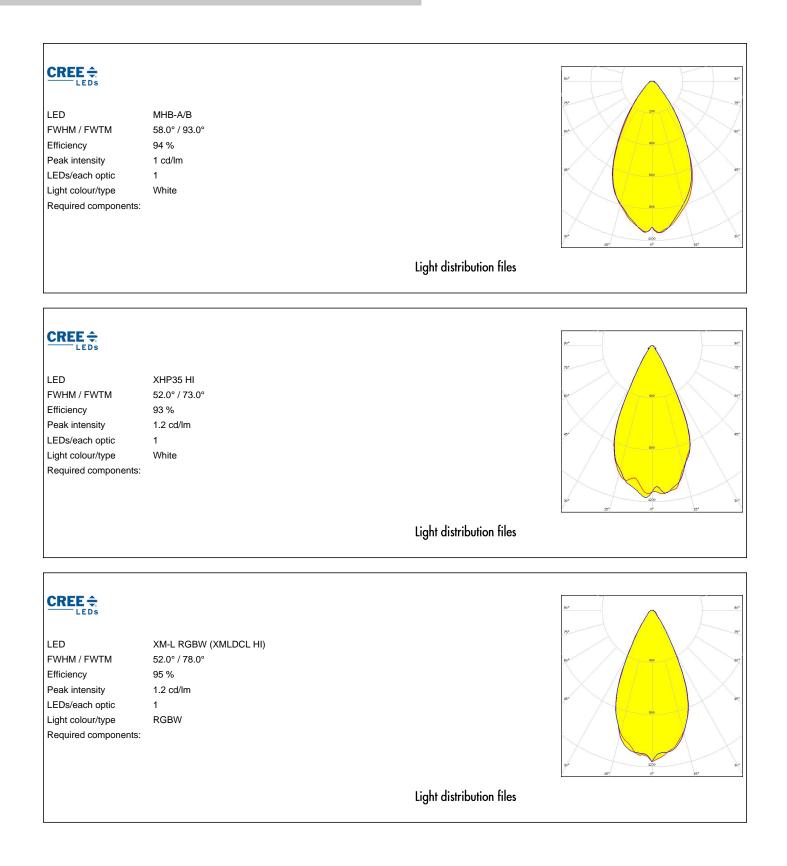
#### TRIDONIC LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM 52.0° / 83.0° Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM 52.0° / 83.0° Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files TRIDONIC RLE G1 49x245mm 4000lm xxx EXC OTD LED FWHM / FWTM 52.0° / 83.0° Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components:

Light distribution files

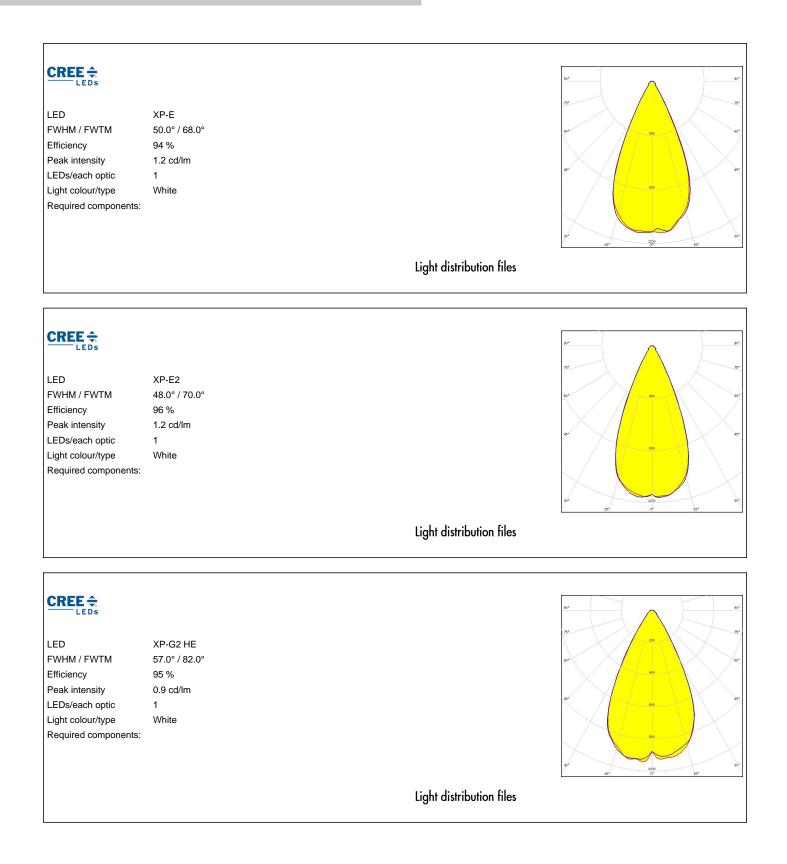










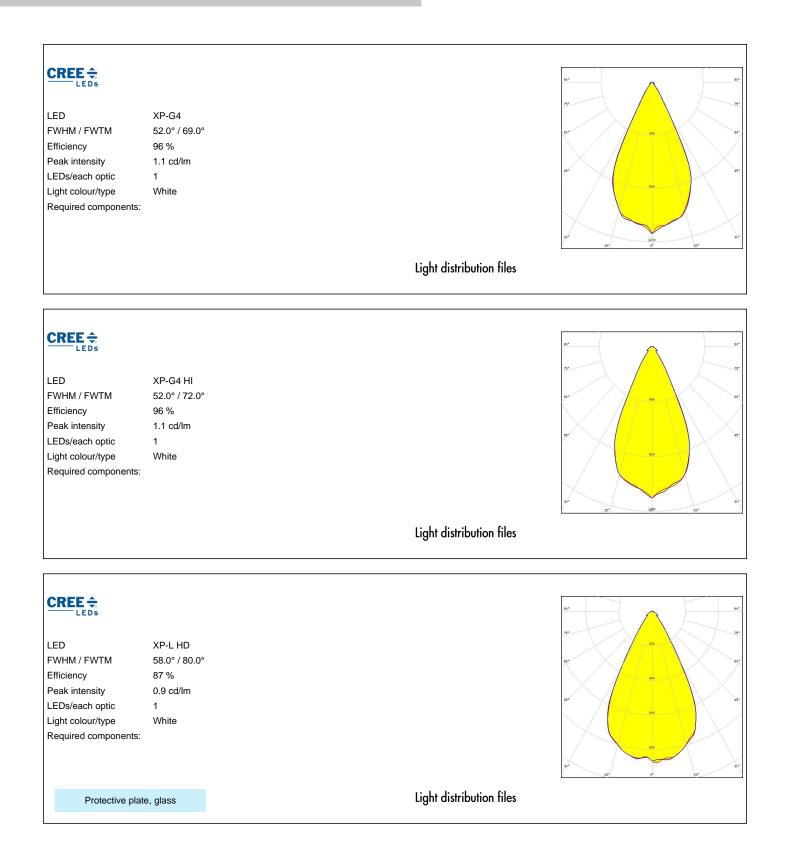




CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	XP-G3 54.0° / 79.0° 94 % 1 cd/lm 1 White	
		Light distribution files
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	XP-G3 55.0° / 81.0° 88 % 1 cd/lm 1 White	Light distribution files
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	XP-G4 54.0° / 70.0° 88 % 1 cd/lm 1 White	
Protective plat	e, glass	Light distribution files



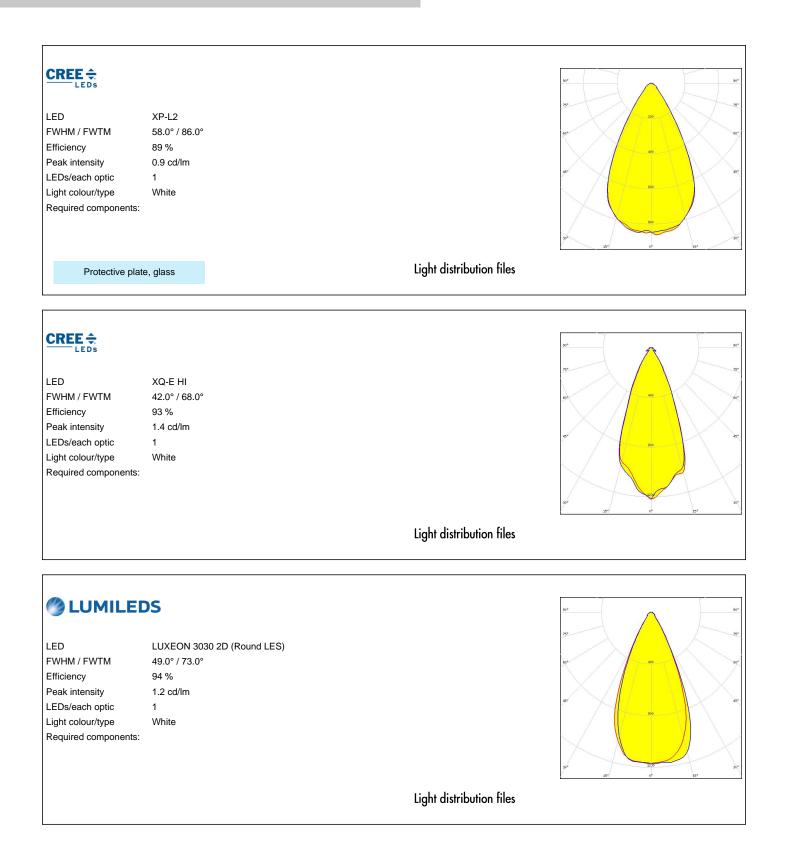
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CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	XP-L HD 56.0° / 79.0° 95 % 1 cd/lm 1 White	
		Light distribution files
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	XP-L HI 52.0° / 72.0° 88 % 1.1 cd/lm 1 White	Light distribution files
CREE <del>\$</del> LEDs		v »
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	XP-L2 58.0° / 84.0° 95 % 0.9 cd/lm 1 White	
		Light distribution files

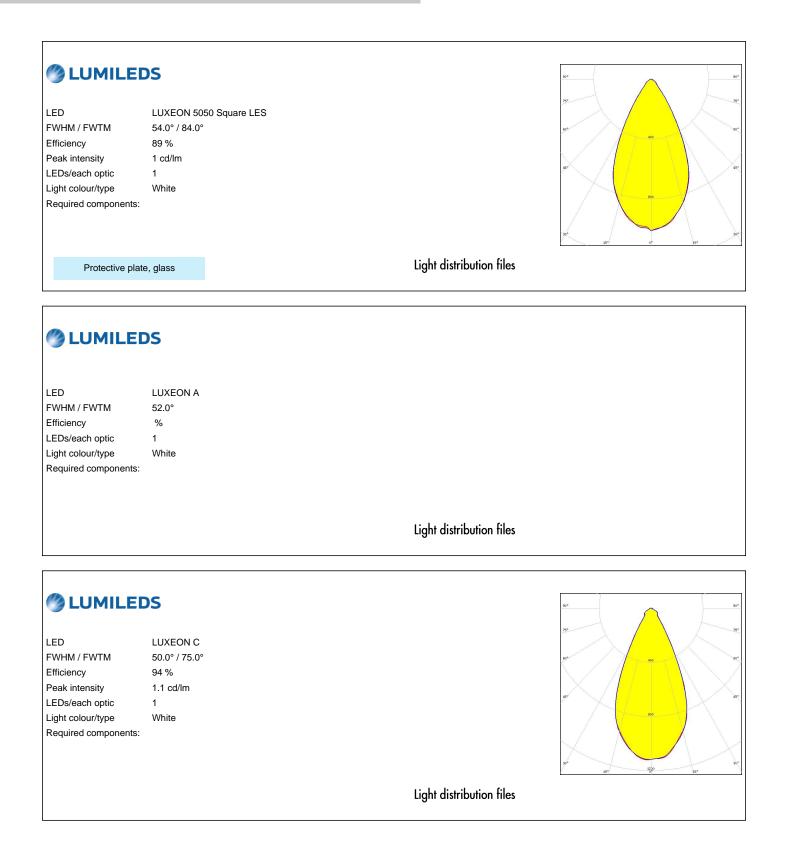






#### LUMILEDS I FD LUXEON 3535L FWHM / FWTM 49.0° / 73.0° Efficiency 94 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUMILEDS LUXEON 5050 HE I FD FWHM / FWTM 56.0° / 84.0° Efficiency 94 % 1 cd/lm Peak intensity LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUXEON 5050 HE LED FWHM / FWTM 54.0° / 84.0° Efficiency 89 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass







#### LUMILEDS I FD LUXEON H50-2 FWHM / FWTM 52.0° / 68.0° Efficiency 91 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUMILEDS LUXEON HL2X I FD FWHM / FWTM 56.0° / 76.0° Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUXEON HL2X-D LED FWHM / FWTM 58.0° / 78.0° Efficiency 96 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files



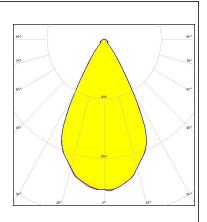
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	LUXEON HL2X-D 58.0° / 80.0° 88 % 0.9 cd/lm 1 White	
Protective plat	e, glass	Light distribution files
CUMILEI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	LUXEON HL2X-P 56.0° / 80.0° 95 % 1 cd/lm 1 White	Light distribution files
O LUMILEI	DS	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour/type Required components:	LUXEON Rebel 52.0° % 1 White	
		Light distribution files



# UMILEDS

LED
FWHM / FWTM
Efficiency
Peak intensity
LEDs/each optic
Light colour/type
Required components:

LUXEON XR-HL2X (L2H2-xxxxxMLU010) 56.0° / 77.0° 96 % 1 cd/lm 1 White



Light distribution files

#### LUMILEDS LUXEON XR-HL2X (L2H2-xxxxxxMLU010) I FD FWHM / FWTM 57.0 + 56.0° / 78.0° Efficiency 87 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass **MNICHIA** NFMW48xA LED FWHM / FWTM 57.0° / 86.0° Efficiency 94 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files



### **ΜΝΙCΗΙΛ** I FD NV4WB35AM FWHM / FWTM 54.0° / 78.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files **ΜΝΙCΗΙΛ** LED NVSxx19A FWHM / FWTM 50.0° Efficiency % LEDs/each optic 1 Light colour/type White Required components: Light distribution files OSRAM Opto Semiconductors LED Duris S8 FWHM / FWTM 57.0° / 88.0° Efficiency 90 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass



Opto Semiconductors	OSCONIQ C 2424 48.0° / 70.0° 96 % 1.3 cd/lm 1 White		99 <sup>4</sup>
		Light distribution files	
COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components: Protective plate	OSCONIQ C 3030 50.0° / 72.0° 88 % 1.1 cd/lm 1 White	Light distribution files	997 75 60 67 67
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	OSCONIQ C 3030 50.0° / 71.0° 96 % 1.2 cd/lm 1 White	Light distribution files	39 <sup>-</sup> 75 <sup>-</sup> 67 <sup>-</sup> 67



Required components:

#### OSRAM LED OSCONIQ P 3737 (2W version) FWHM / FWTM 48.0° / 70.0° Efficiency 93 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files OSRAM Opto Semiconductore OSCONIQ P 3737 (3W version) I FD FWHM / FWTM 54.0° / 77.0° Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files OSRAM Opto S OSCONIQ P 3737 Flat LED FWHM / FWTM 50.0° / 73.0° Efficiency 96 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour/type White

Light distribution files



COSPERIE Des Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	OSCONIQ S 5050 56.0° / 83.0° 95 % 1.1 cd/lm 1 White	Light distribution files	27 6 <sup>1</sup> 6 <sup>1</sup> 10 10 10 10 10 10 10 10 10 10
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components: Protective plate	OSCONIQ S 5050 56.0° / 84.0° 87 % 1 cd/lm 1 White	Light distribution files	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
Correspondences Dete Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	OSLON Square CSSRM2/CSSRM3 52.0° / 74.0° 96 % 1.1 cd/lm 1 White	Light distribution files	90 <sup>4</sup> 90 <sup>4</sup> 9



Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 54.0° / 76.0° 87 % 1 cd/lm 1 White		59° 50° 275 200 72° 66° 4100 60° 4100 60° 400 60° 50° 60° 20° 60°
Protective plate	e, glass	Light distribution files	
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	Fortimo FastFlex LED 2x8 DAX G4 54.0° / 79.0° 94 % 1 cd/lm 1 White		99° 99° 99° 99° 99° 99° 99° 99°
		Light distribution files	
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	LH502D 55.0° / 86.0° 97 % 1.1 cd/lm 1 White		*Bec *Bec   *Bec *Bec
		Light distribution files	



SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	Acrich MJT 4040 52.0° / 77.0° 94 % 1.1 cd/lm 1 White		10. 100 10.   20. 00 00   00. 00 00   22. 00 00   23. 00 00
		Light distribution files	
SEOUL SEMICONDUCTOR			
LED	MJT 5050		
FWHM / FWTM Efficiency	57.0° / 88.0° 94 %		
Peak intensity	94 % 1 cd/lm		
LEDs/each optic	1		
Light colour/type	White		
Required components:			
		Light distribution files	
SEGUL SEMICONDUCTOR			9)*
			35
SECUL SEMICONDUCTOR	SEOUL DC 5050 6V		
SEOUL SEMICONDUCTOR LED FWHM / FWTM	54.0° / 84.0°		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	54.0° / 84.0° 94 %		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	54.0° / 84.0° 94 % 1.1 cd/lm		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	54.0° / 84.0° 94 % 1.1 cd/lm 1		95 - 10 - PC
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	54.0° / 84.0° 94 % 1.1 cd/lm		75



Light colour/type Required components:	White		30 <sup>5</sup> 15 <sup>5</sup> 0 <sup>4</sup> 15 <sup>4</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Z5M5 54.0° / 80.0° 87 % 1 cd/lm 1		99* 99* 99*
		Light distribution files	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Z5M5 54.0° / 78.0° 95 % 1.1 cd/lm 1 White		50° 60° 60° 400 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
		Light distribution files	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Z5M1/Z5M2 52.0° / 73.0° 94 % 1.1 cd/lm 1 White		5° 6° 6° 6° 10° 10° 10° 10° 10° 10° 10° 10



SEQUE SEMICONDUCTOR		90°
LED	Z8Y22T	79
FWHM / FWTM	50.0° / 76.0°	9 <sup>1</sup>
Efficiency	94 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	¢.
Light colour/type	White	
Required component	s:	30° 1250 30°
		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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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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#### LEDiL Oy

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### Local sales and technical support www.ledil.com/ where\_to\_buy

Shipping locations Poznan, Poland Hong Kong, China

#### Distribution Partners www.ledil.com/ where\_to\_buy

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