

PRODUCT DATASHEET C14607_HB-2X2-M

HB-2X2-M

 ${\sim}25^\circ$ medium beam optimized for CREE XP-L and XM-L

SPECIFICATION:

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



MATERIALS:

Component	Туре	Material	Colour	Finish	Length
HB-2X2-M	Multi-lens	PMMA	clear		50.0

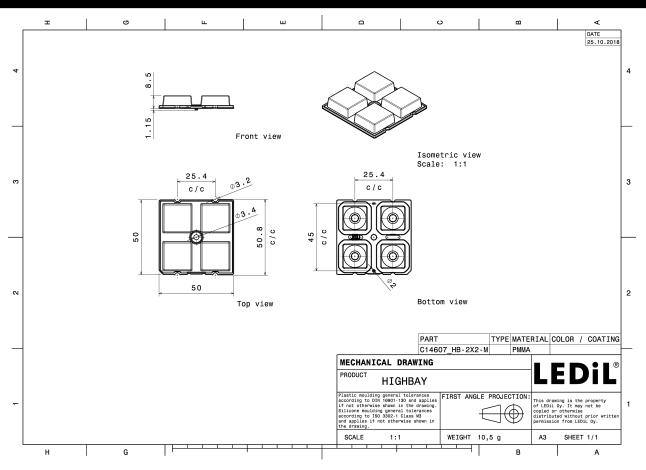
ORDERING INFORMATION:

Component

C14607_HB-2X2-M » Box size: 480 x 280 x 300 mm

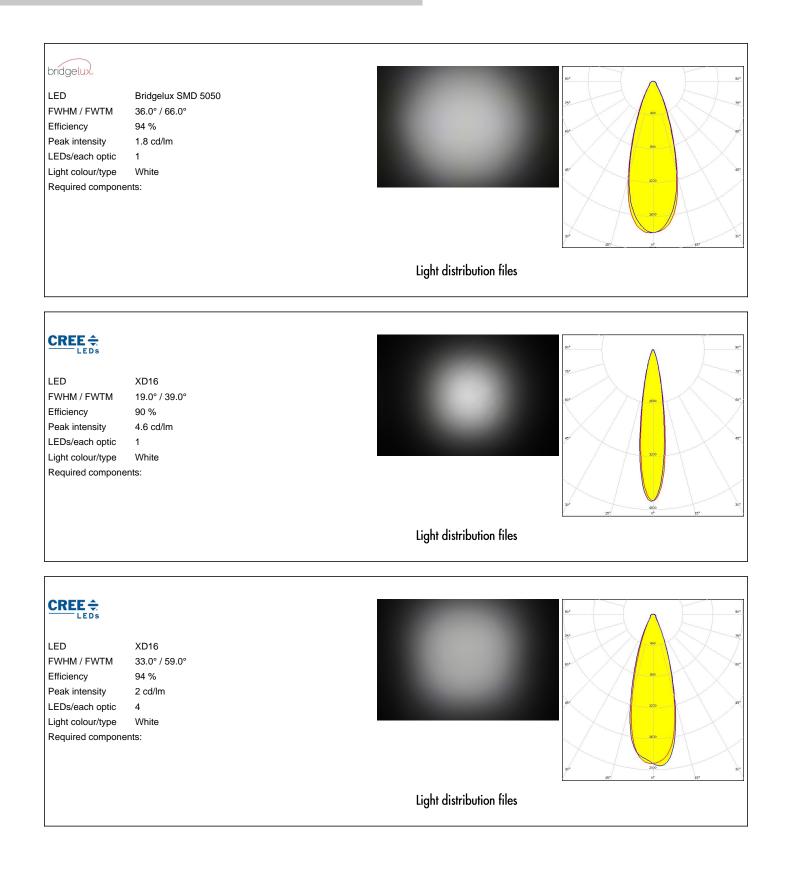
Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	9.2

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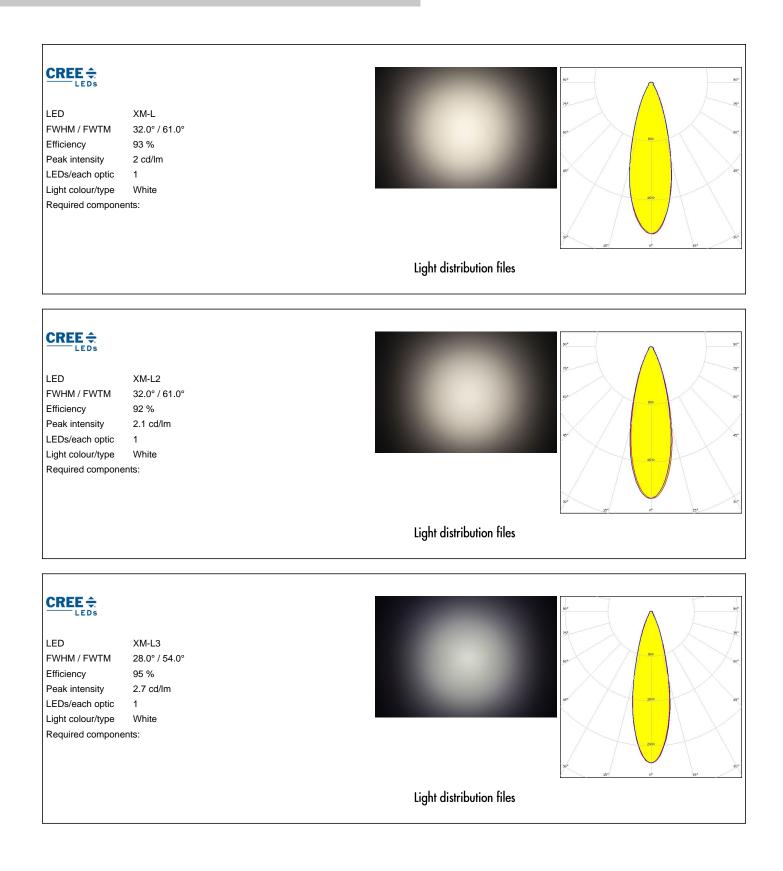


See also our general installation guide: www.ledil.com/installation_guide

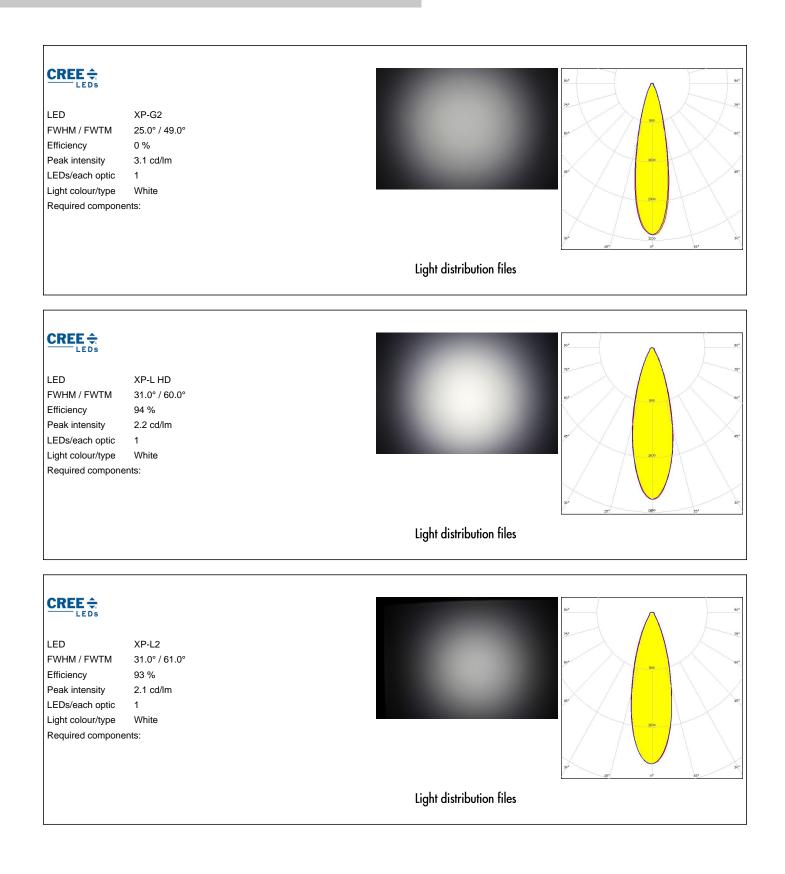




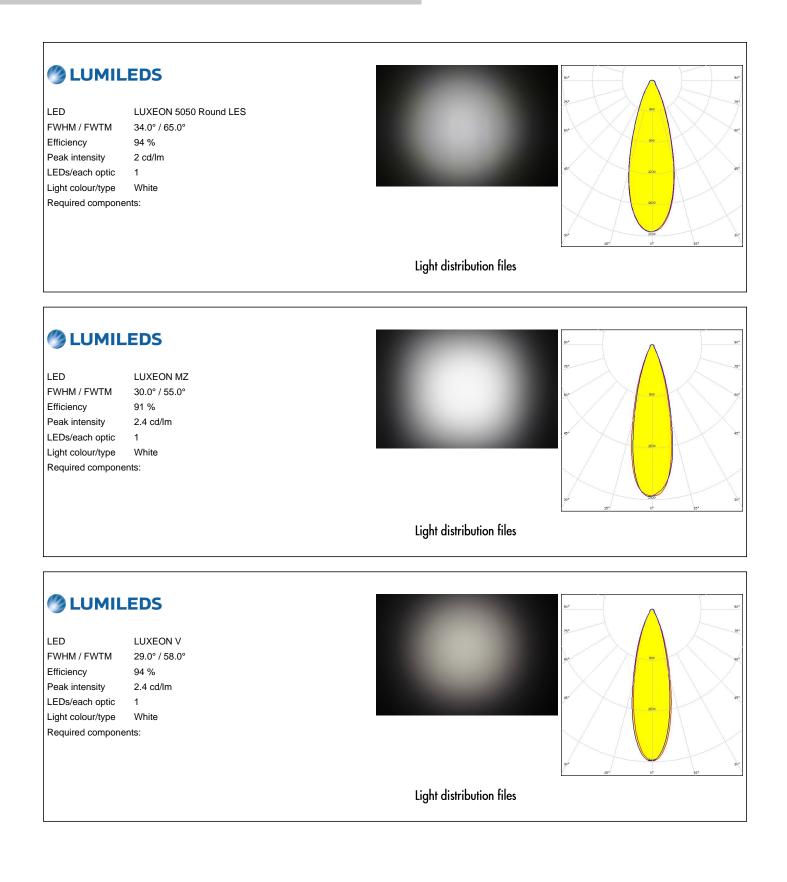




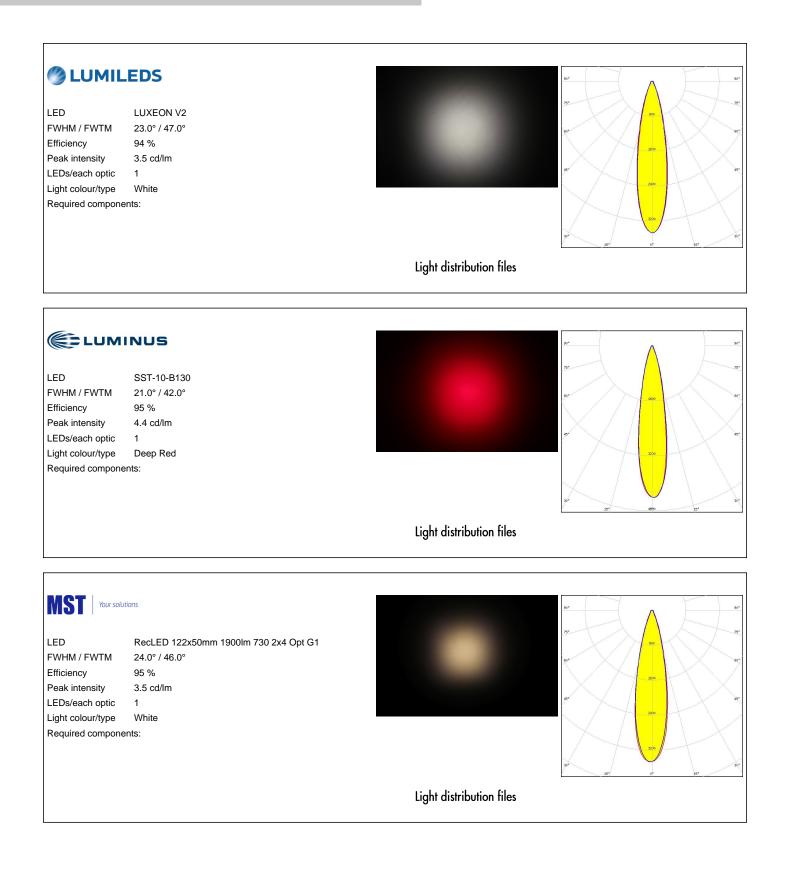




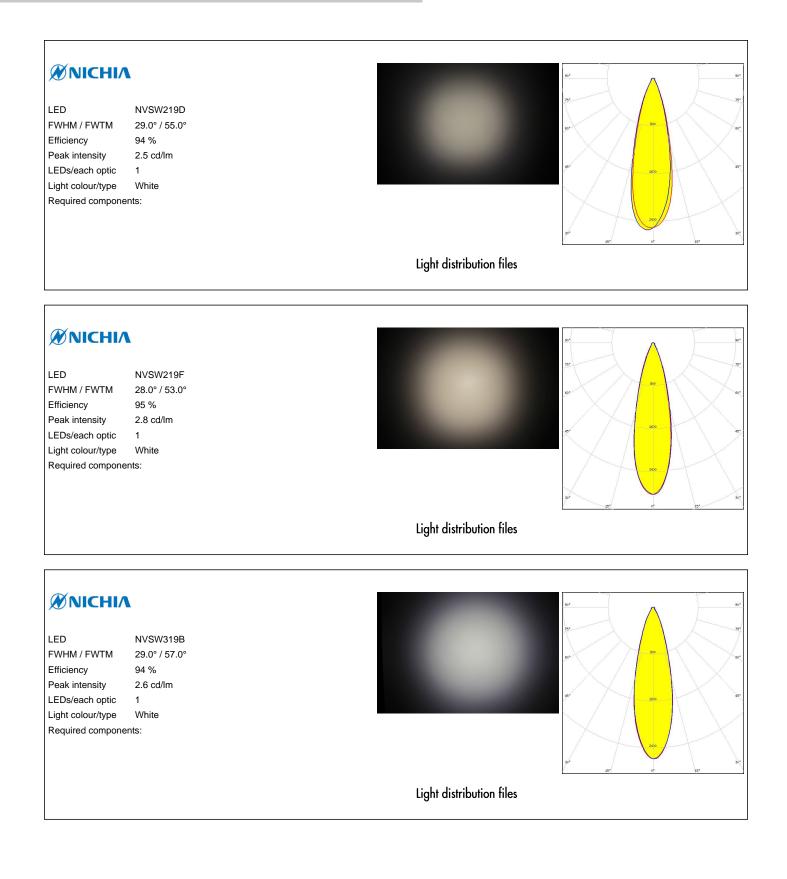




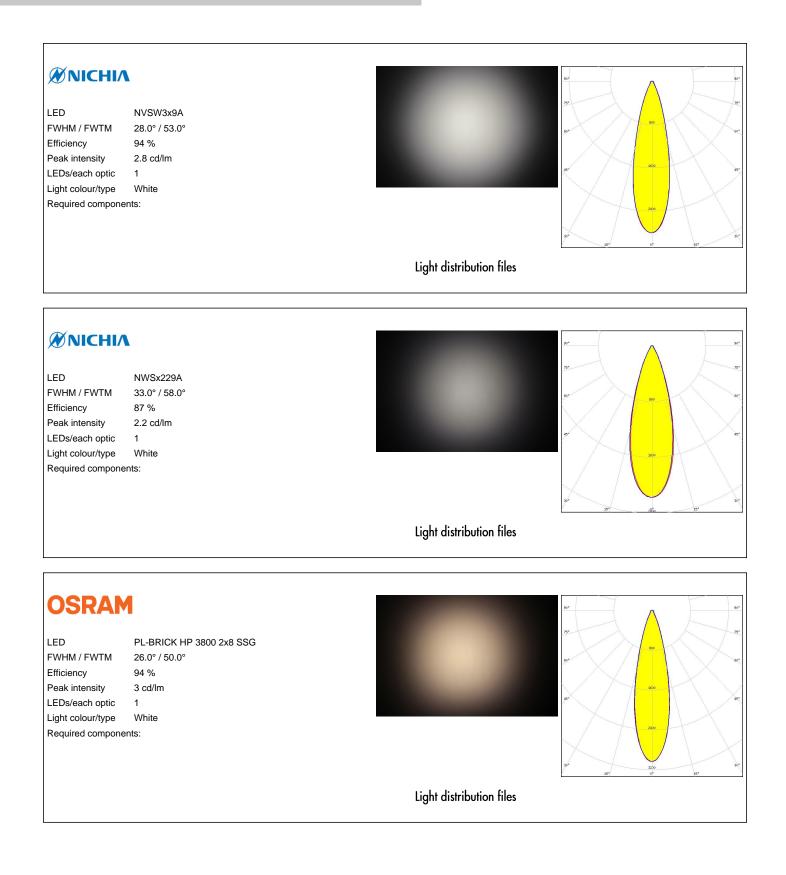




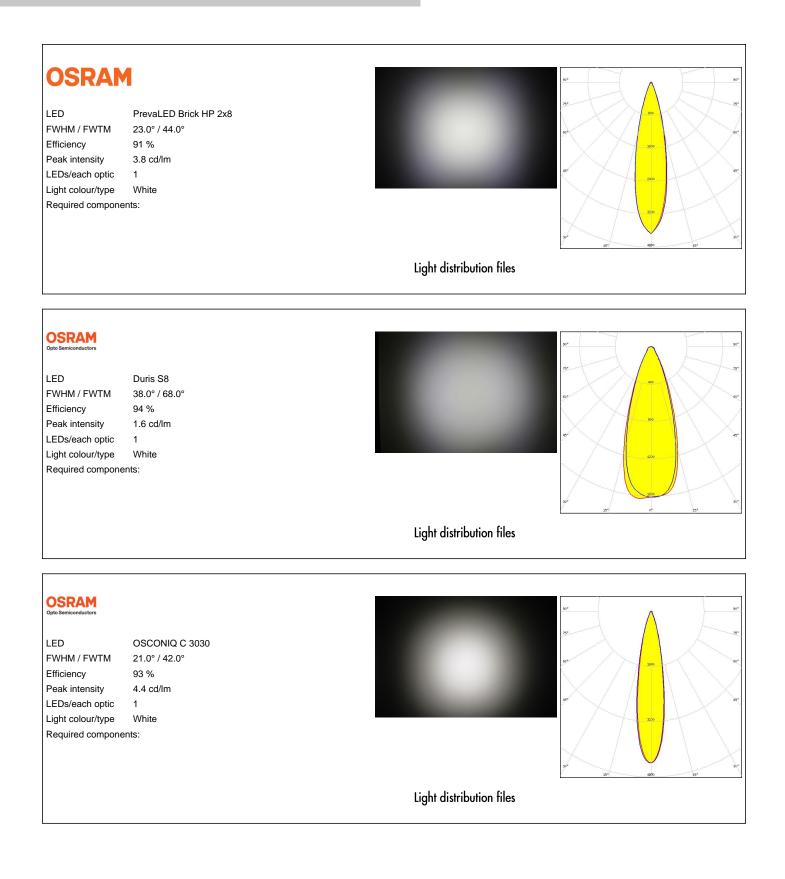








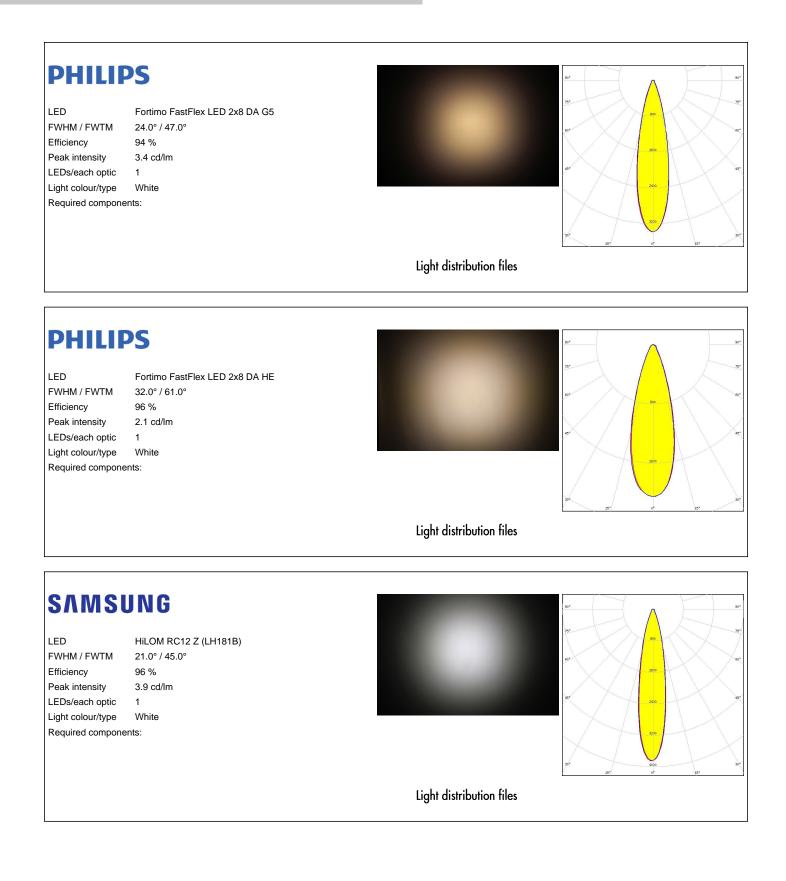




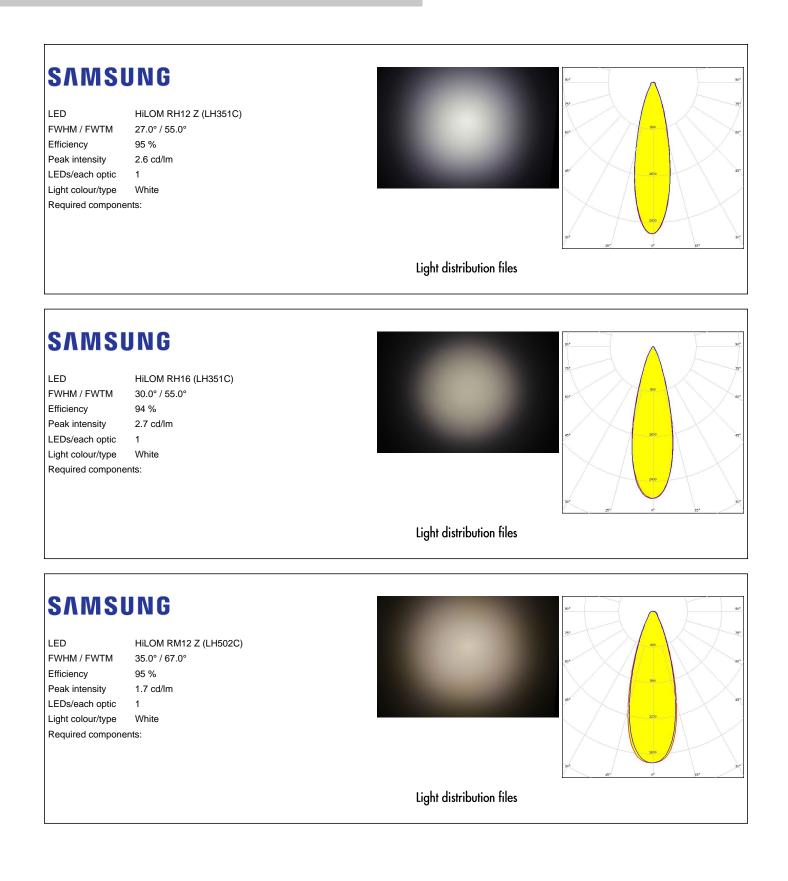


OSRAM Opto Semiconductors		554	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	OSLON Square CSSRM2/CSSRM3 23.0° / 44.0° 91 % 3.8 cd/lm 1 White Ints:	5°	00 160 240 200
		Light distribution files	677 <u>15</u> 4
PHILIF	PS	5 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Fortimo FastFlex LED 2x8 DA G4 25.0° / 51.0° 92 % 3 cd/lm 1 White ints:	73 64 67 73 73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	200 200 200
		Light distribution files	- mj 22
PHILIF	PS	30 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Fortimo FastFlex LED 2x8 DA G4+ 30.0° / 59.0° 96 % 2.3 cd/lm 1 White	30 ⁴ 25 ³	64 Pa 290 160 90
		Light distribution files	



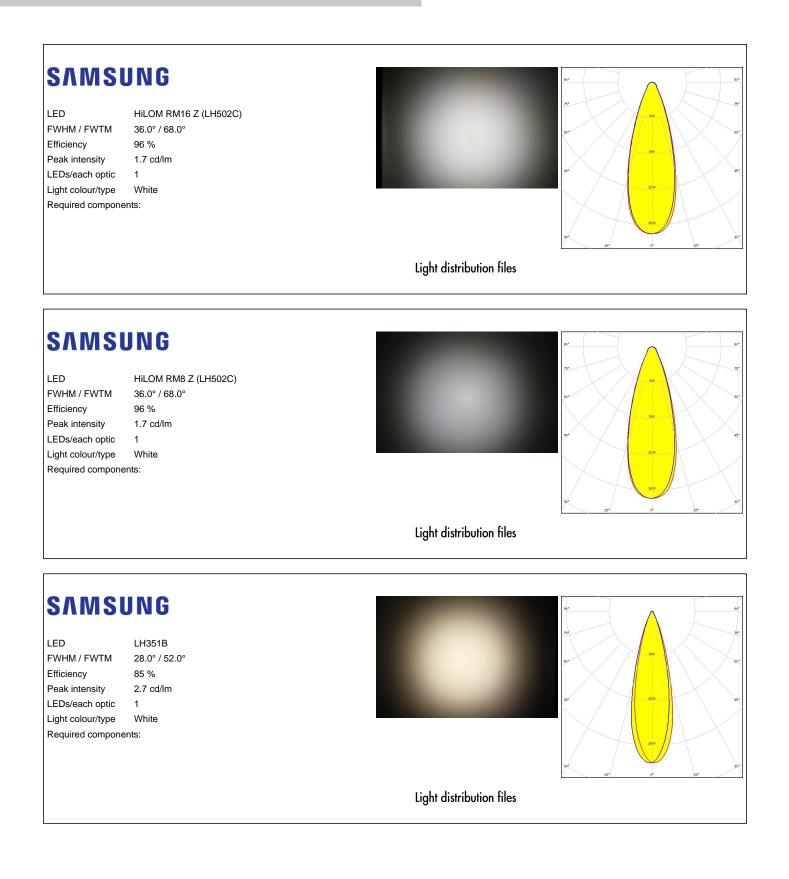








14/34





SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	LH351D 35.0° / 64.0° 91 % 1.9 cd/lm 1 White	Light distribution files	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	LED-Pa-L15c2W11c2-xxx-C050-01 24.0° / 48.0 + 47.0° 95 % 3.6 cd/lm 1 White ents:	Light distribution files	200 200 200 200 200 200 200 200
SSOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	2x2 Y22 module - SMJQ-D48W16AA-XX 34.0° / 64.0° 93 % 1.5 cd/lm 1 White ents:	Light distribution files	

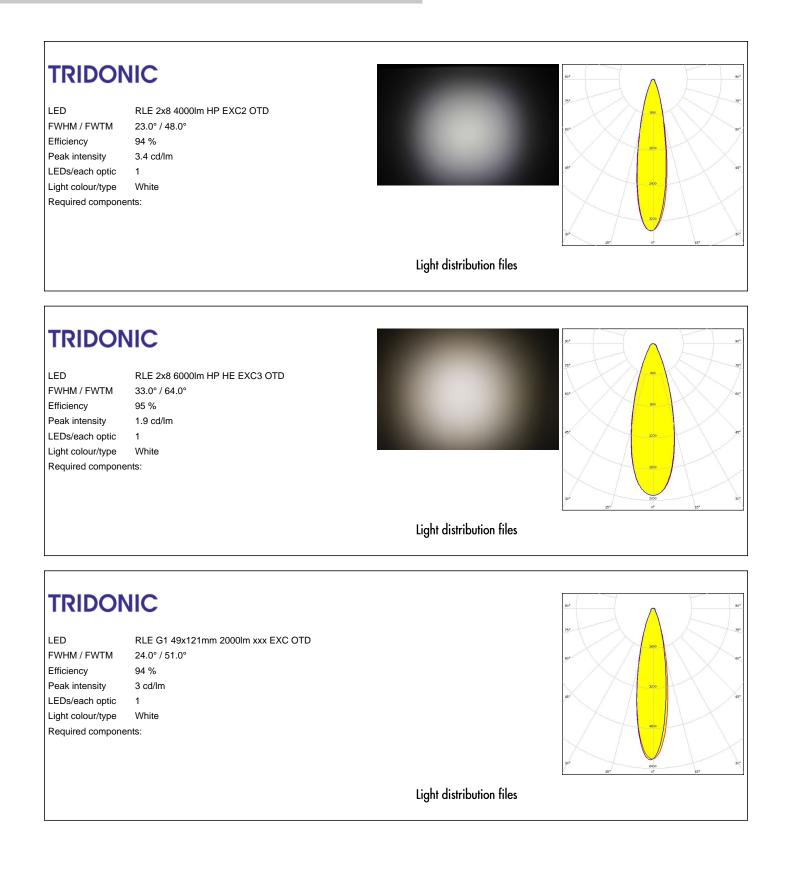


SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z5M3 25.0° / 51.0° 94 % 3.1 cd/lm 1 White ents:	
		Light distribution files
SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z5M4 26.0° / 52.0° 95 % 3 cd/lm 1 White ents:	Light distribution files
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y19 34.0° / 64.0° 93 % 1.5 cd/lm 4 White	Light distribution files



Efficiency 93 9	° / 64.0° 6 cd/lm	27 04 04 00 00 00 00 00
Light colour/type Whi	e	9°*
		30 20 100
		Light distribution files
Efficiency 92 9	° / 48.0° 6 cd/lm	200 200 00 00 00 00 00 00 00 00 00 00 00
		Light distribution files







Efficiency

Peak intensity

LEDs/each optic

Light colour/type

Required components:

94 %

White

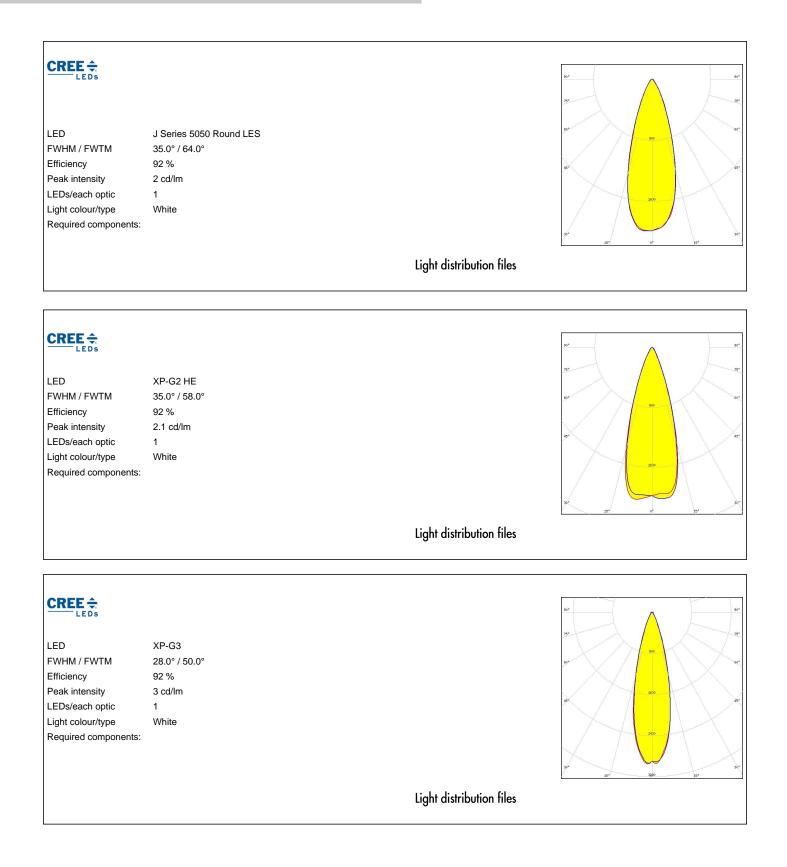
1

3 cd/lm

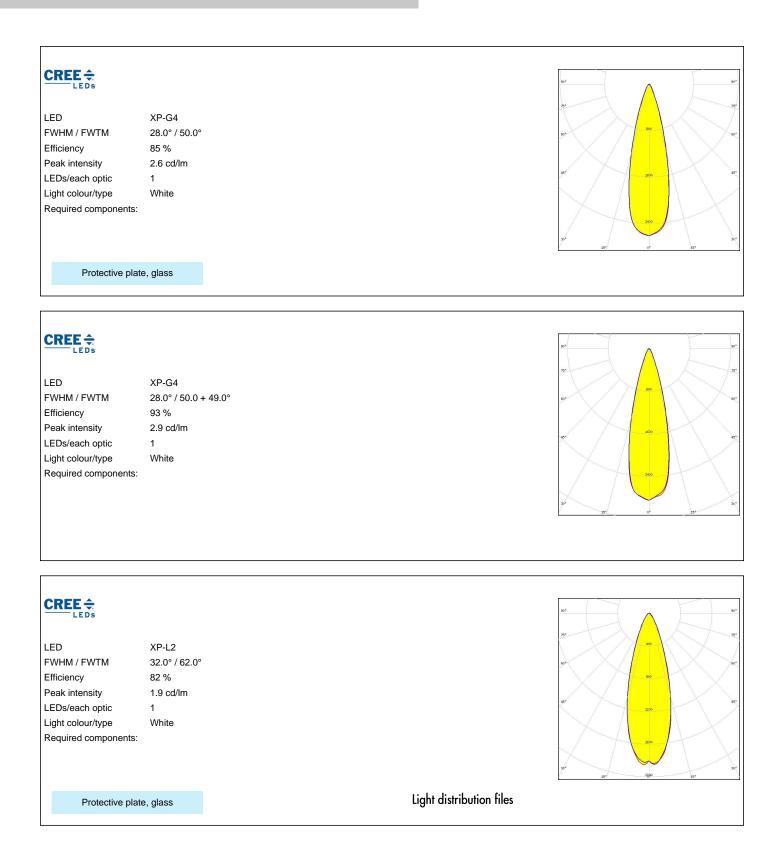
TRIDONIC LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM 24.0° / 51.0° Efficiency 94 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM 24.0° / 51.0° Efficiency 94 % Peak intensity 3 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 24.0° / 51.0°

Light distribution files







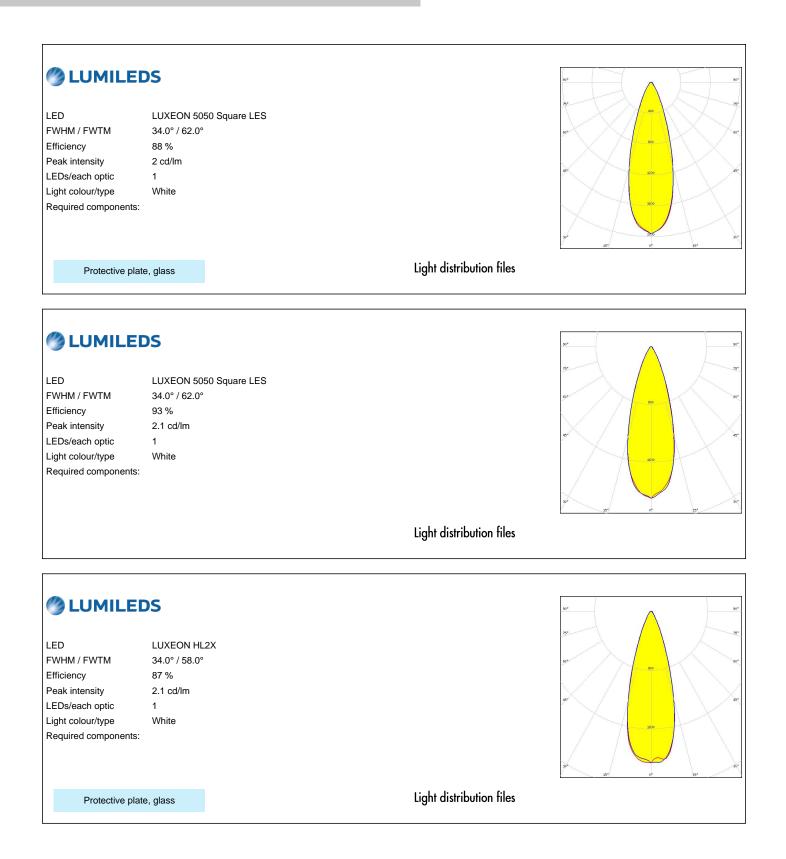




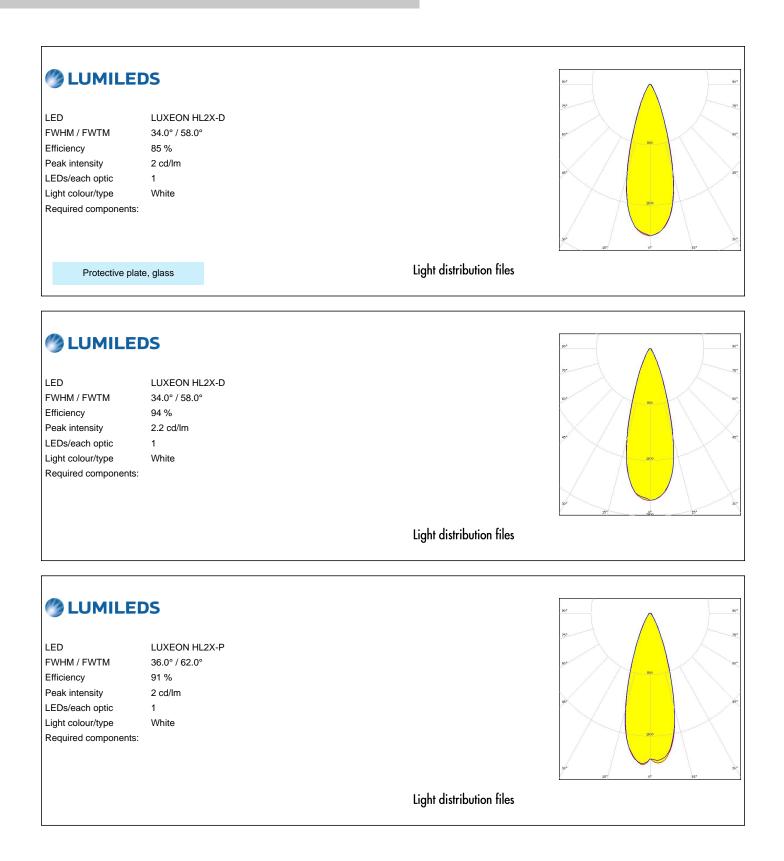
LUMILEDS I FD LUXEON 3030 2D (Round LES) FWHM / FWTM 21.0° / 41.0° Efficiency 91 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUMILEDS LUXEON 3535 2D I FD FWHM / FWTM 22.0° / 42.0° Efficiency 92 % Peak intensity 4.5 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files LUXEON 5050 Round LES LED FWHM / FWTM 34.0° / 64.0° Efficiency 87 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass

Last update: 16/05/2024Subject to change without prior noticeLEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.





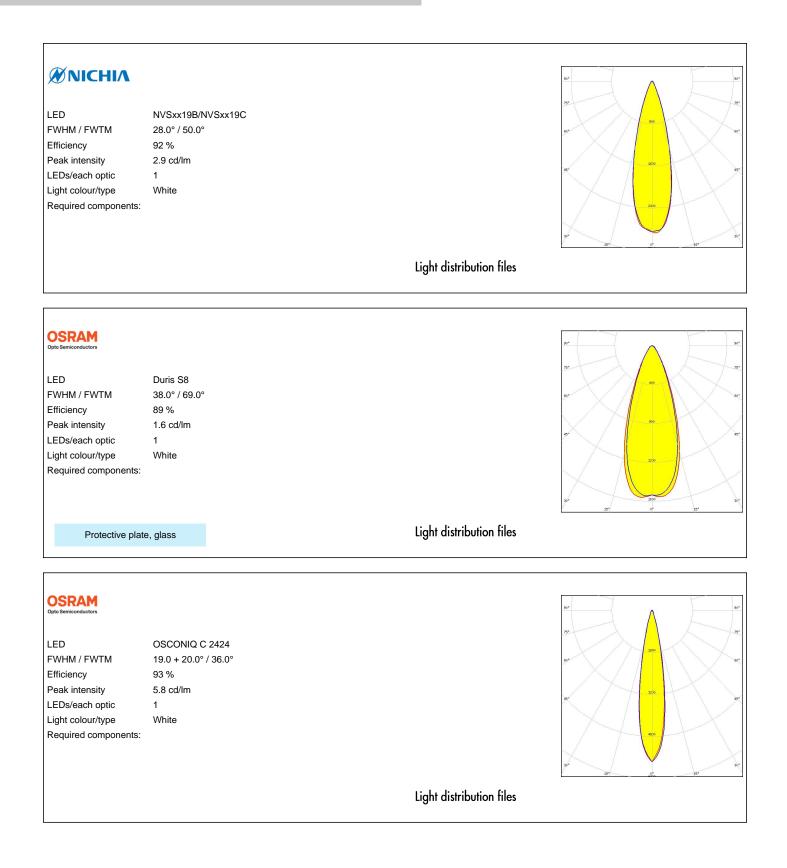






CUMILEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 32.0° / 58.0° 85 % 2.1 cd/lm 1 White		24 - 25 - 26 - 27 - 26 - 27 - 26 - 27 - 27 - 27
Protective plate	e, glass	Light distribution files	
CUMILEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 32.0° / 56.0° 94 % 2.3 cd/lm 1 White	Light distribution files	20, 0, 12, 0, 25, 20, 700 2, 700 6, 700 2, 900 2, 9
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	NV4WB35AM 30.0° / 54.0° 93 % 2.7 cd/lm 1 White		200 200 200 200 200 200 200 200 200 200
		Light distribution files	







OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	OSCONIQ P 3030 18.0° / 36.0° 94 %		99 ⁴ 73 64 100
Peak intensity LEDs/each optic Light colour/type Required components:	5.8 cd/lm 1 White		200 200 30 30 20 30 30 30 30 30 30 30 30 30 30 30 30 30
		Light distribution files	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	OSCONIQ P 3737 (2W version) 22.0° / 40.0° 92 % 4.4 cd/lm 1 White		24 ⁻ 20 ⁻ 40 ⁻ 10 ⁻ 20 ⁻
		Light distribution files	
OSRAM Opto Semiconductors			
LED	OSCONIQ P 3737 (2W version)		
FWHM / FWTM	22.0° / 40.0°		60 ⁴ 60
Efficiency	87 %		
Peak intensity	4 cd/lm		
LEDs/each optic Light colour/type	1 White		
Required components:			30 ⁵ 15 ⁵ 0 ⁶ 15 ⁵
Protective plate	, glass	Light distribution files	



OSRAM Opto Semiconductors LED OSCONIQ P 3737 Flat 24.0° / 44.0° FWHM / FWTM Efficiency 93 % Peak intensity 4 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files OSRAM Opto Semiconductore OSLON Pure 1414 I FD FWHM / FWTM 18.0° / 30.0° Efficiency 93 % Peak intensity 7 cd/lm LEDs/each optic 1 Light colour/type White Required components: OSRAM Opto S OSLON Square CSSRM2/CSSRM3 LED FWHM / FWTM 22.0° / 42.0° 89 % Efficiency Peak intensity 4.1 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass

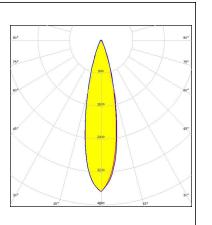


OSRAM LED **OSLON Square Flat** FWHM / FWTM 20.0° / 35.0° Efficiency 94 % Peak intensity 5.5 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files OSRAM Opto Semiconductore OSTAR Projection Compact (KW.CSLNM1.TG) I FD FWHM / FWTM 21.0° / 38.0° Efficiency 94 % 5 cd/lm Peak intensity LEDs/each optic 1 Light colour/type White Required components: Light distribution files PHILIPS LED Fortimo FastFlex LED 2x8 DAX G4 FWHM / FWTM 28.0° / 50.0° 92 % Efficiency Peak intensity 3 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files

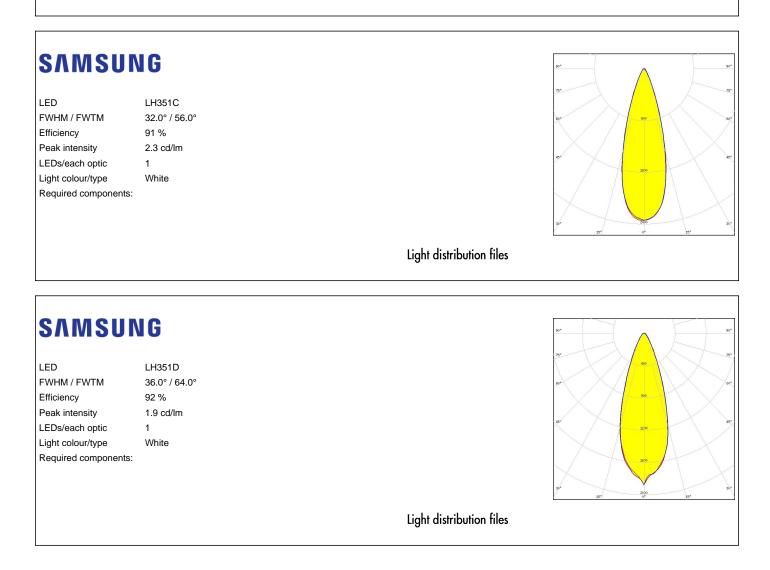


SAMSUNG

LED	LH231B
FWHM / FWTM	24.0° / 46.0°
Efficiency	92 %
Peak intensity	3.7 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



Light distribution files





Peak intensity

LEDs/each optic

Light colour/type

Required components:

1.8 cd/lm

1

White

SAMSUNG I FD LH502C FWHM / FWTM 36.0° / 70.0° Efficiency 89 % Peak intensity 1.6 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass **SAMSUNG** LH508A Plus I FD FWHM / FWTM 32.0° / 62.0° 93 % Efficiency Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour/type White Required components: SEOUL SEOUL SEMICONDUCTOR LED MJT 5050 FWHM / FWTM 36.0° / 66.0° Efficiency 92 %

Light distribution files



SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	SEOUL DC 5050 6V 34.0° / 62.0° 94 % 2.1 cd/lm 1 White		20 20 20 20 20 20 20 20 20 20
		Light distribution files	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components: Protective plate	Z5M5 28.0° / 50.0° 85 % 2.8 cd/lm 1 White		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	Z5M5 28.0° / 50.0° 94 % 3.1 cd/lm 1 White		200 200 200 200 200 200 200 200 200 200



SEOUL SEMICONDUCTOR		92 ⁴ 97 ⁴
LED	Z8Y22T	
FWHM / FWTM	23.0° / 44.0°	60°
Efficiency	91 %	
Peak intensity	3.9 cd/lm	
LEDs/each optic	1	·
Light colour/type	White	
Required component	5:	200 200 200 200 200 200 200 200 200 200
		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.

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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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LEDiL Oy

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