

# PRODUCT DATASHEET C14606\_HB-2X2-WW

# HB-2X2-WW

 ${\sim}65^\circ$  wide beam optimized for CREE XP-L and XM-L

#### **SPECIFICATION:**

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



#### **MATERIALS:**

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

#### **ORDERING INFORMATION:**

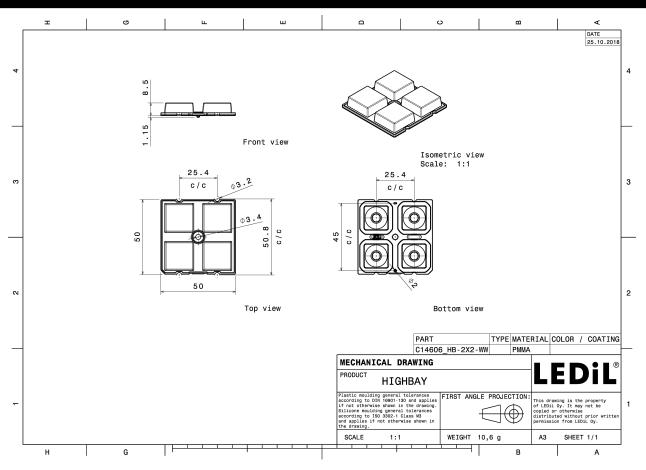
#### Component

C14606\_HB-2X2-WW » 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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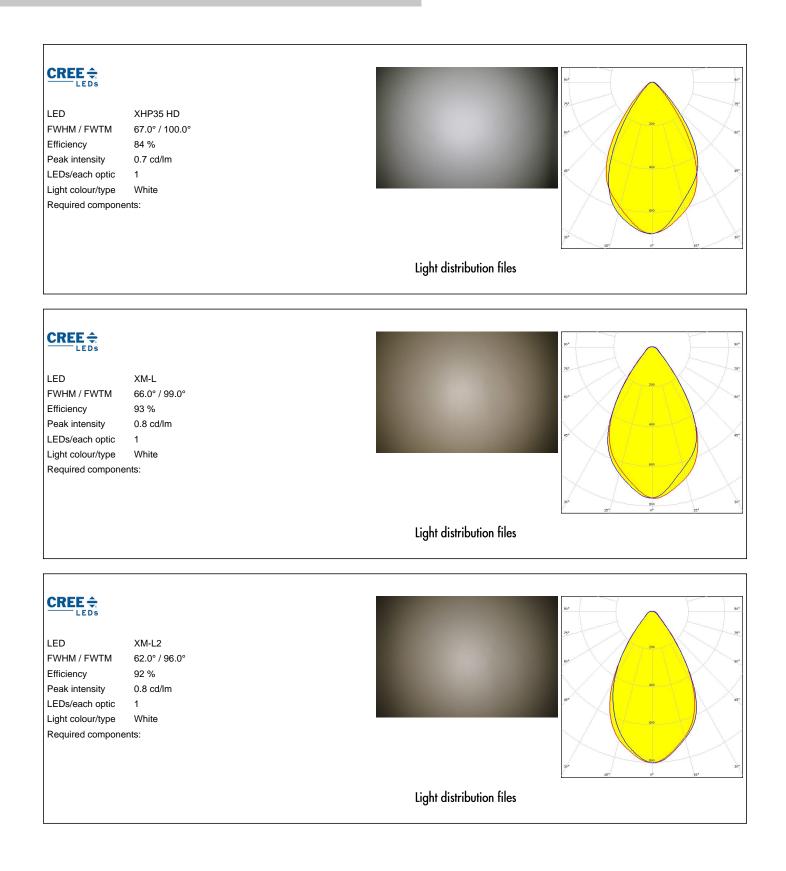


See also our general installation guide: <u>www.ledil.com/installation\_guide</u>

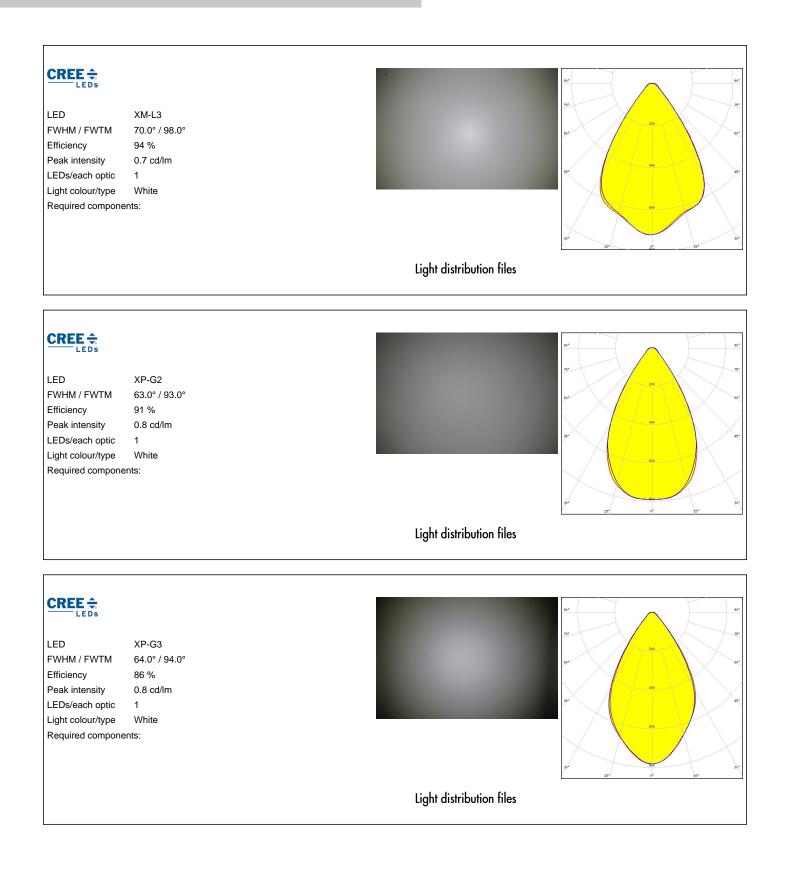


bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Bridgelux SMD 5050 59.0° / 96.0° 94 % 0.8 cd/lm 1 White nts:	
		Light distribution files
CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	XD16 63.0° / 92.0° 93 % 0.8 cd/lm 1 White nts:	Light distribution files
CREE S LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	XD16 61.0° / 97.0° 92 % 0.8 cd/lm 4 White nts:	Light distribution files

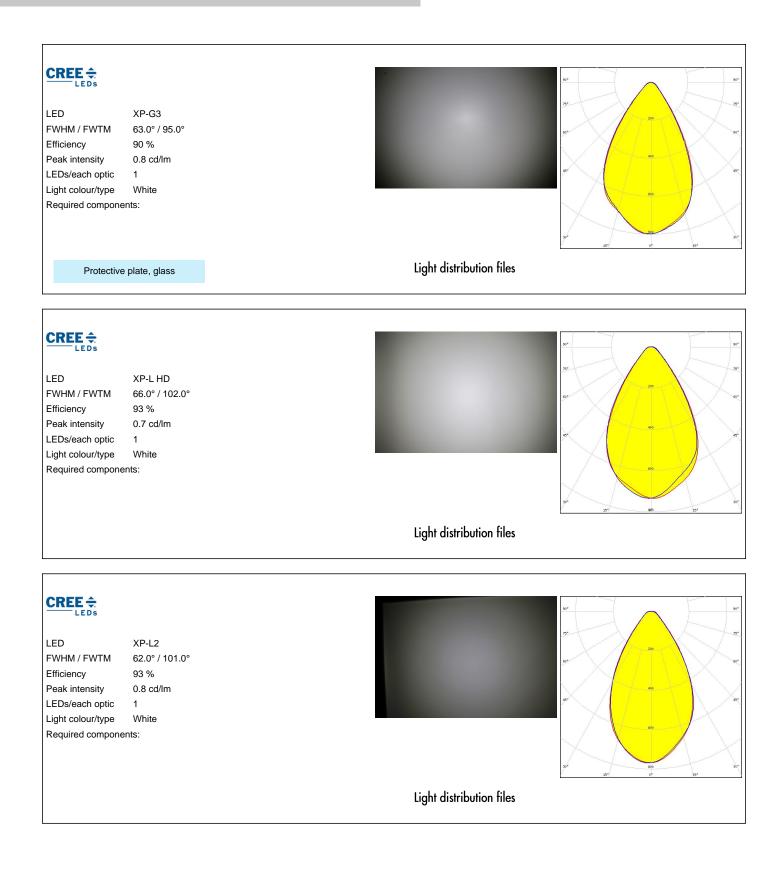












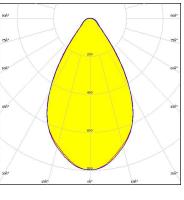


# inventronics

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

PL-BRICK HP 3800 2x8 SSG 64.0° / 96.0° 94 % 0.8 cd/lm 1 White



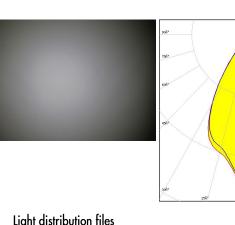


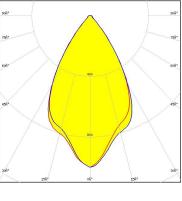
Light distribution files

# inventronics

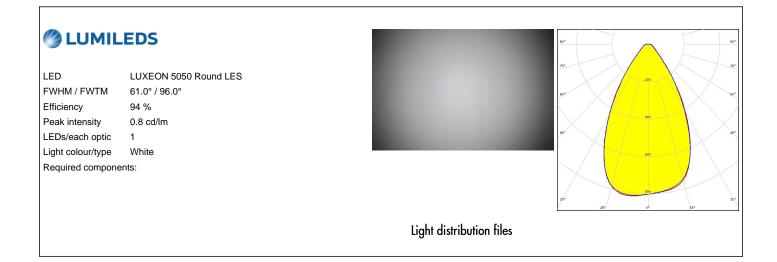
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:

PrevaLED Brick HP 2x8 64.0° / 93.0° 92 % 0.8 cd/lm 1 White

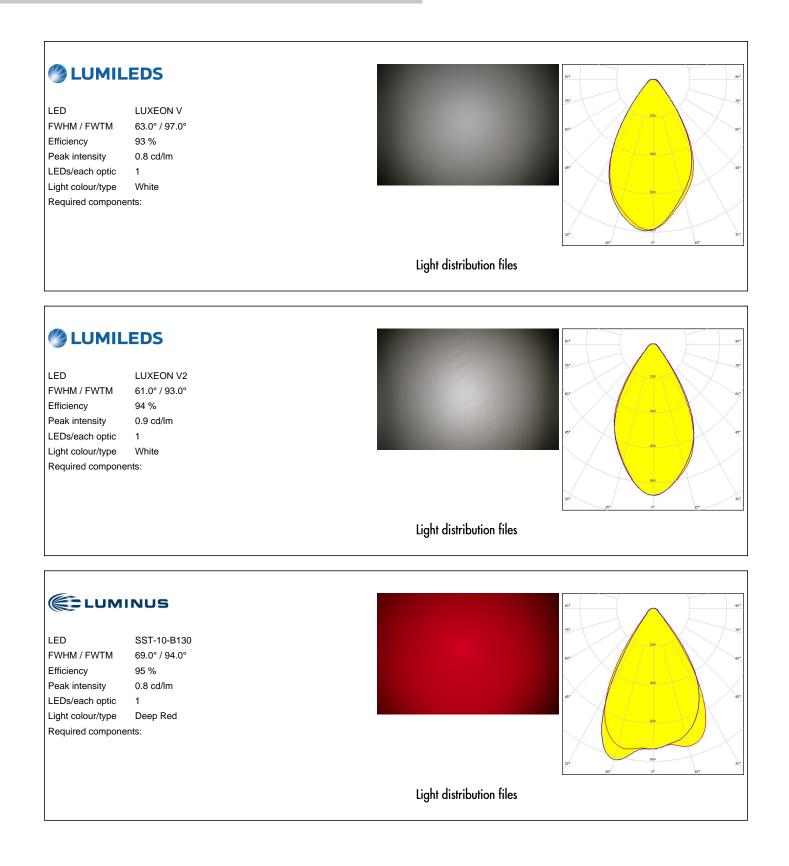




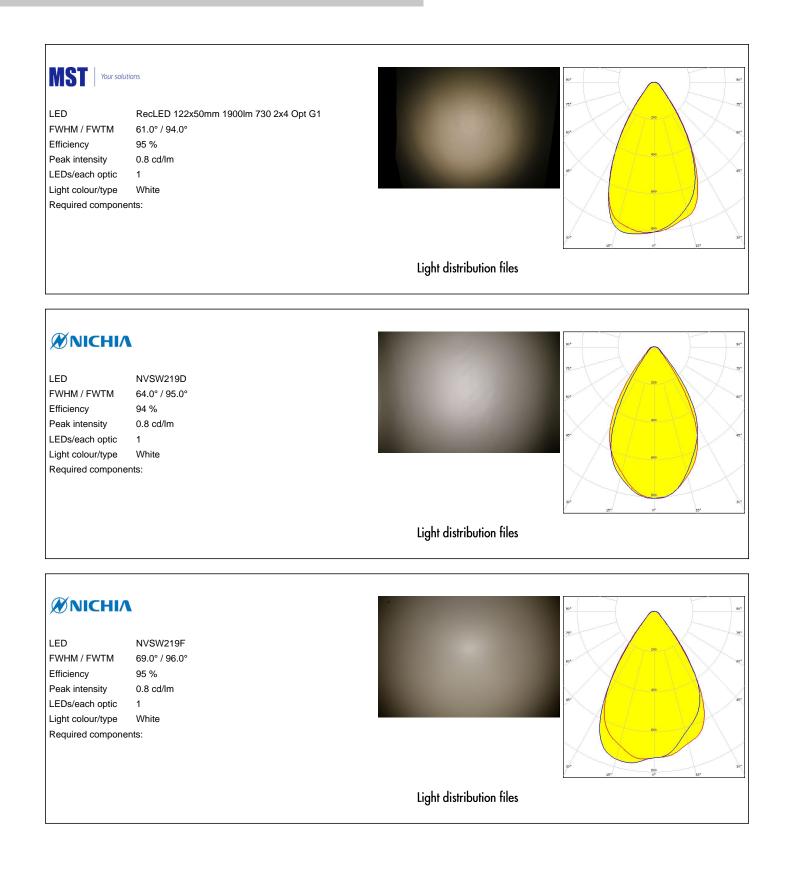
Light distribution files



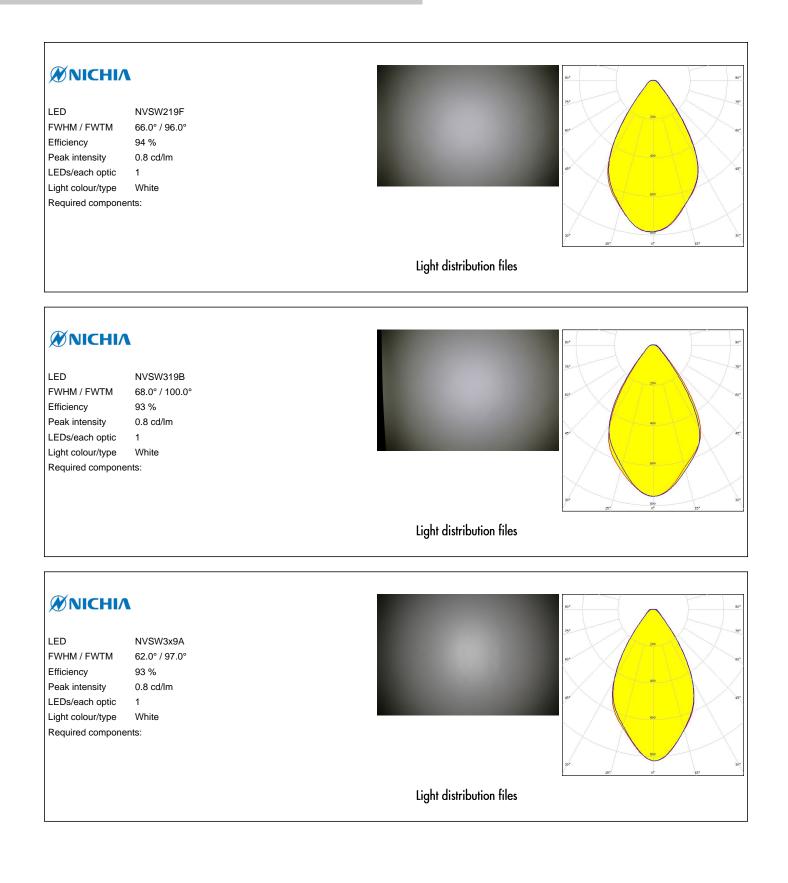






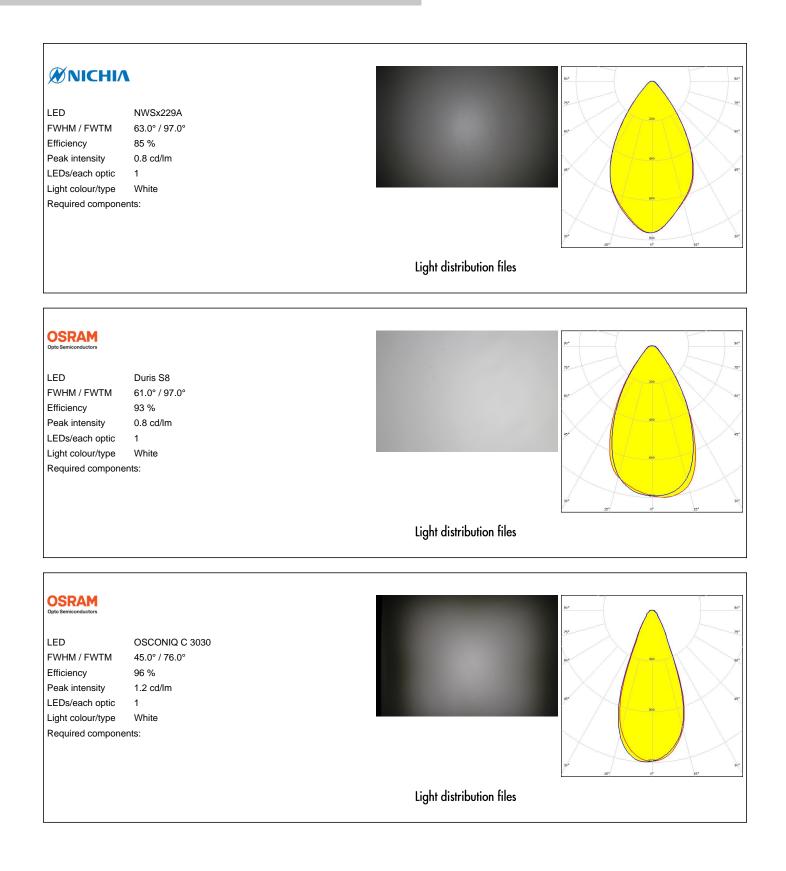




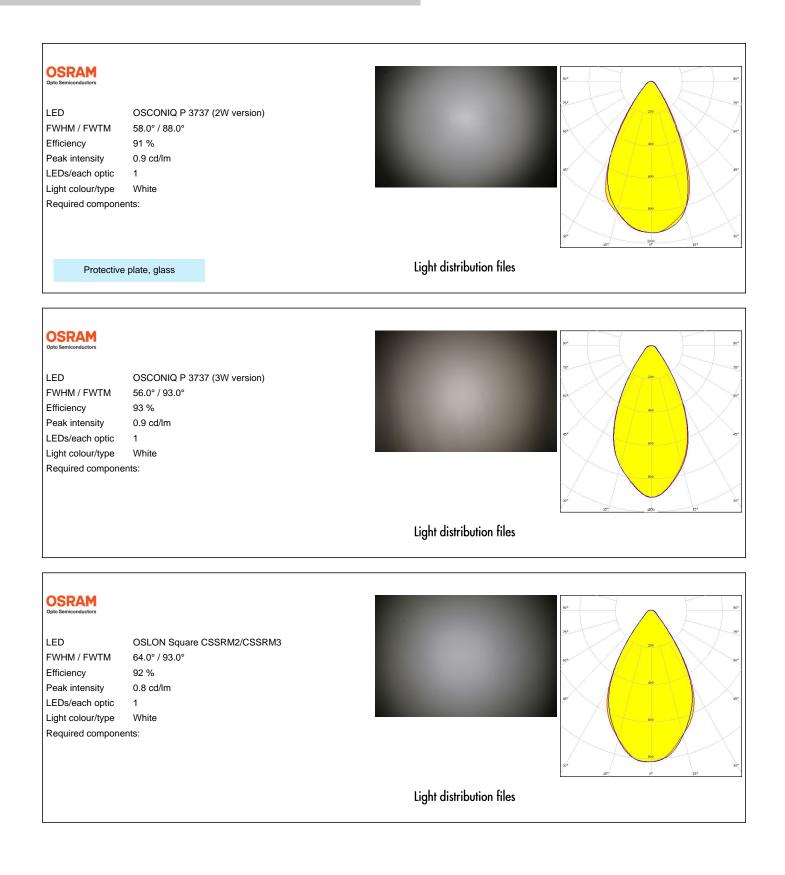




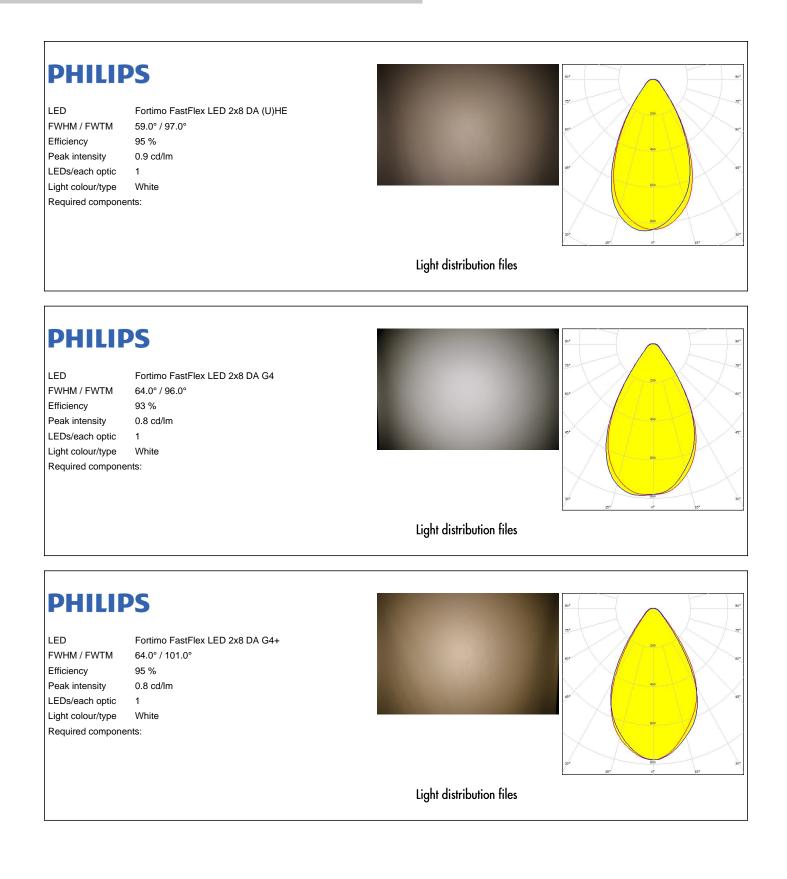
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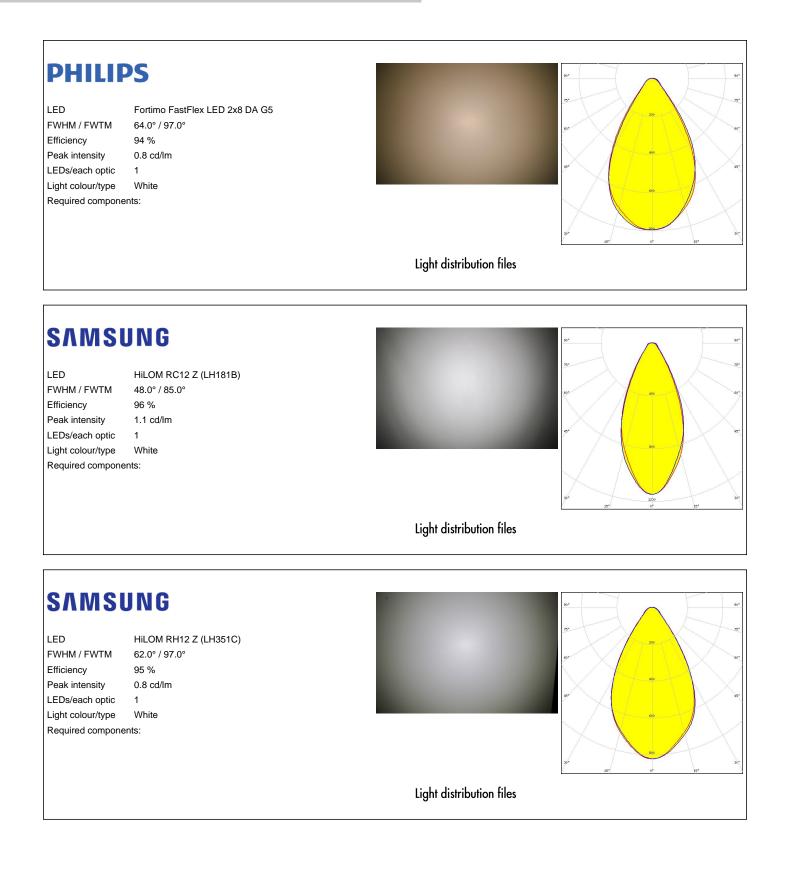












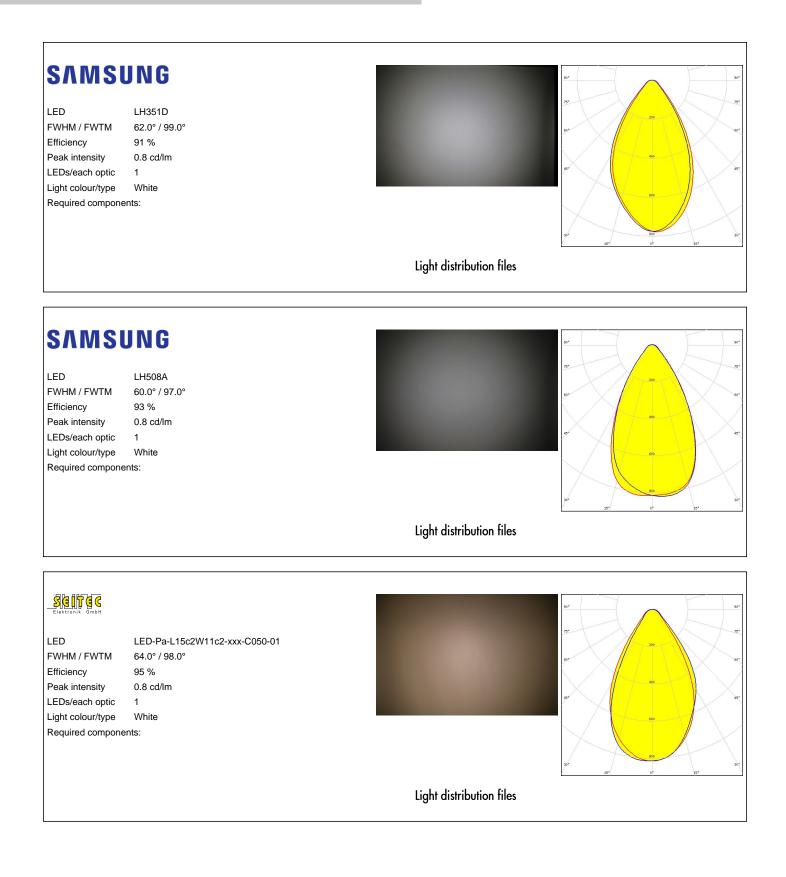


#### SAMSUNG LED HiLOM RH16 (LH351C) FWHM / FWTM 61.0° / 96.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED HiLOM RM12 Z (LH502C) FWHM / FWTM 57.0° / 98.0° Efficiency 94 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED HiLOM RM16 Z (LH502C) FWHM / FWTM 57.0° / 97.0° Efficiency 95 % 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 57.0° / 98.0° Efficiency 95 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED LH351B FWHM / FWTM 62.0° / 92.0° Efficiency 86 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED LH351C FWHM / FWTM 62.0° / 94.0° Efficiency 93 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files







2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0° 92 % 0.8 cd/lm 1 White ents:	
	Light distribution files
Z5M3 62.0° / 96.0° 94 % 0.8 cd/lm 1 White ents:	Fight distribution files
Z5M4 64.0° / 92.0° 95 % 0.8 cd/lm 1 White ents:	Light distribution files
	55.0° / 98.0° 92 % 0.8 cd/lm 1 White ints:



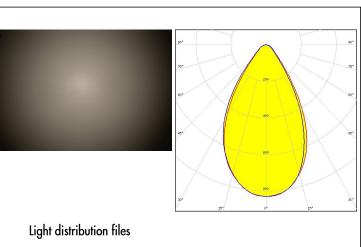
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y19 55.0° / 98.0° 92 % 0.8 cd/lm 4 White ents:	
		Light distribution files
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y19 55.0° / 98.0° 92 % 0.8 cd/lm 4 White ents:	Light distribution files
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required compone	Z8Y22P 59.0° / 94.0° 92 % 0.9 cd/lm 1 White ents:	



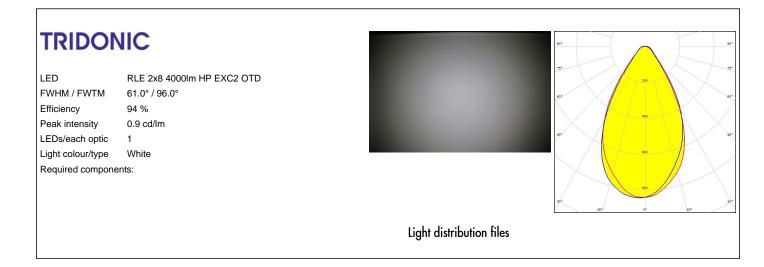
# TRIDONIC

LED	RLE 2x4 2000lm HP EXC2 OTD
FWHM / FWTM	61.0° / 96.0°
Efficiency	94 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required component	ts:

# TRIDONIC



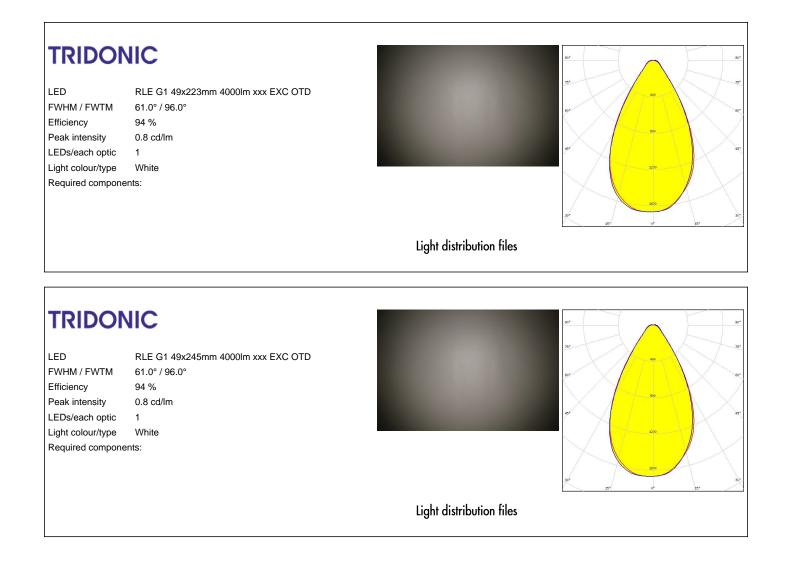
Protective plate, glass



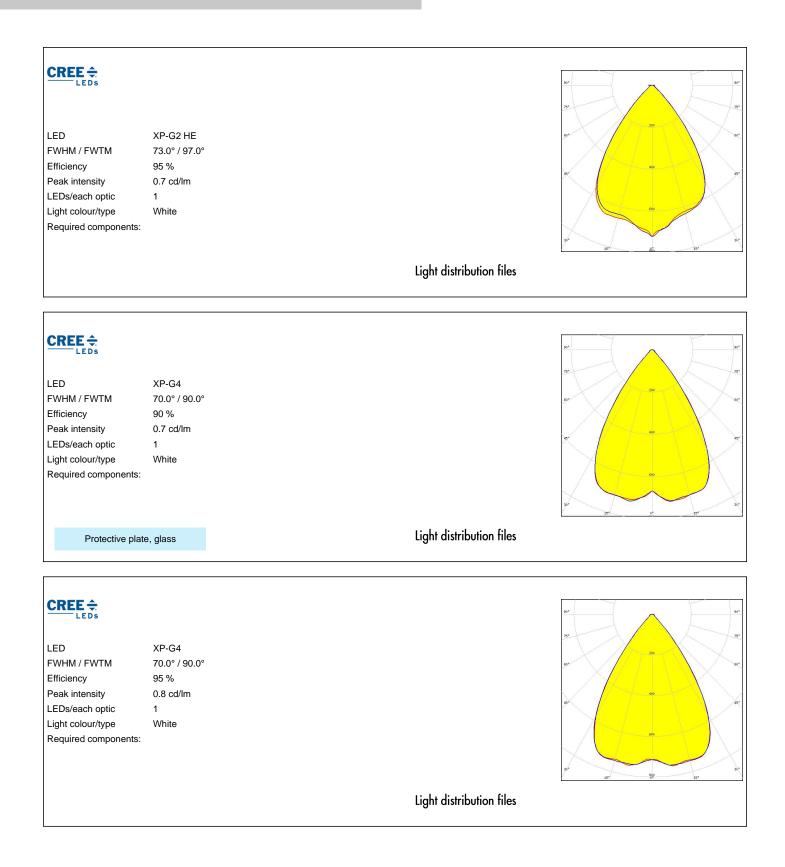


#### TRIDONIC LED RLE 2x8 6000lm HP HE EXC3 OTD FWHM / FWTM 57.0° / 96.0° Efficiency 95 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files TRIDONIC LED RLE G1 49x121mm 2000lm xxx EXC OTD FWHM / FWTM 61.0° / 96.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files TRIDONIC LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM 61.0° / 96.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files

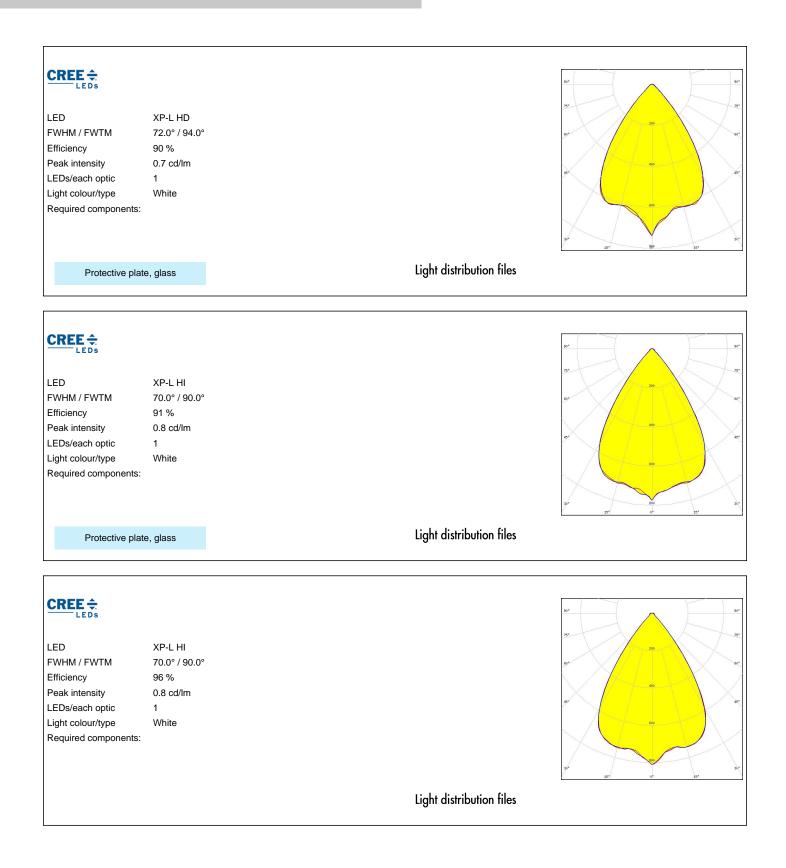




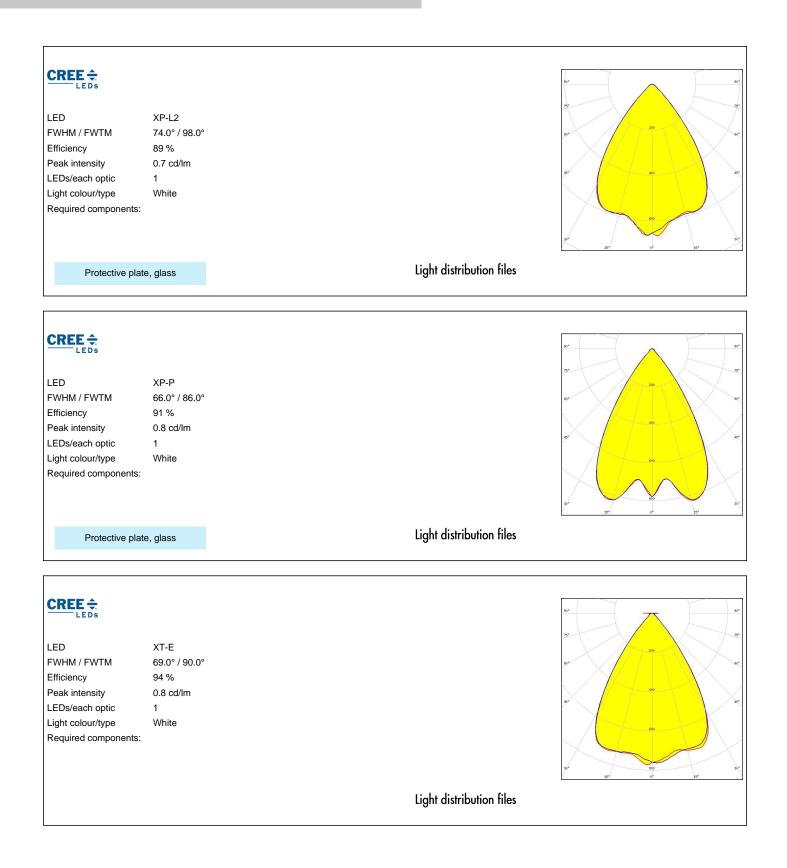








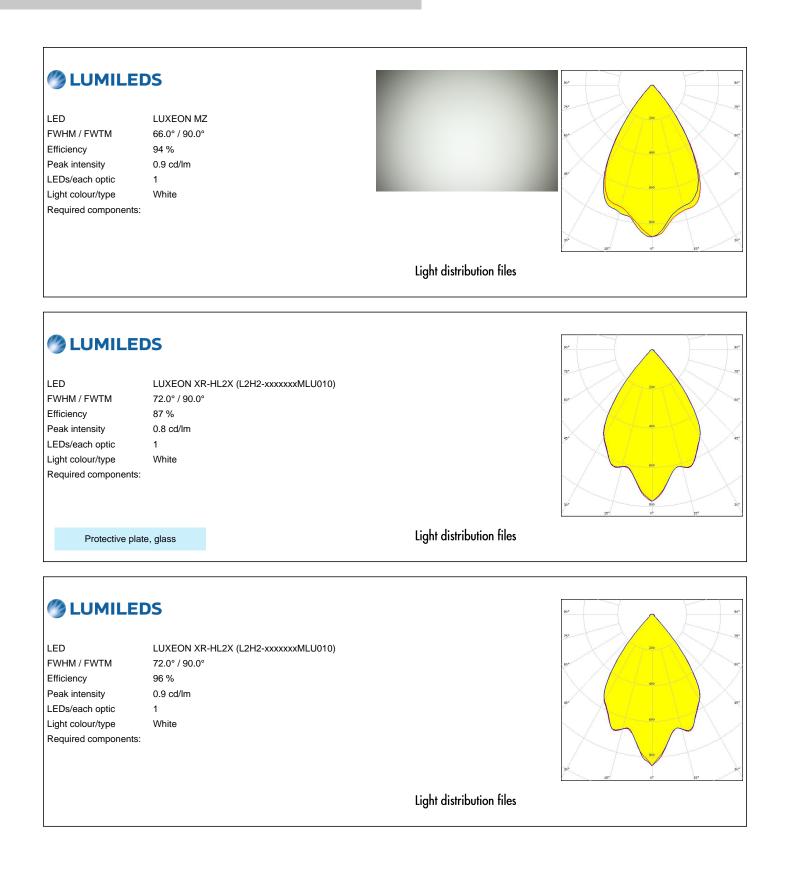






	DS	20
LED	LUXEON 3535L	· · · · · · · · · · · · · · · · · · ·
FWHM / FWTM	66.0° / 89.0°	80°
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	or A
Light colour/type	White	
Required components	s:	
		204 00 100
		Light distribution files
CUMILE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components	LUXEON 5050 Square LES 70.0° / 96.0° 86 % 0.7 cd/lm 1 White	Light distribution files
Fiblective pl	ale, ylass	
	DS	99 <sup>+</sup>
) LUMILE		
		73
LED	LUXEON HL2X 72.0° / 94.0°	75
LED FWHM / FWTM	72.0° / 94.0°	67 Z00
LED FWHM / FWTM Efficiency	72.0° / 94.0° 90 %	77 60 10
LED FWHM / FWTM Efficiency Peak intensity	72.0° / 94.0°	75 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	72.0° / 94.0° 90 % 0.7 cd/lm 1	73 64 9 9 9 9 9
LED FWHM / FWTM Efficiency Peak intensity	72.0° / 94.0° 90 % 0.7 cd/lm 1 White	



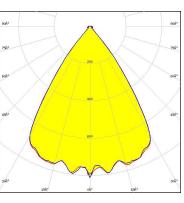




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LED	SST-20 Gen2
FWHM / FWTM	70.0° / 84.0°
Efficiency	96 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

# 

- LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:
- SST-20F-W 68.0° / 84.0° 96 % 0.9 cd/lm 1 White



Light distribution files

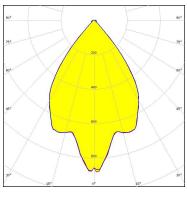




# 

LED	SST-36F-W
FWHM / FWTM	70.0° / 88.0°
Efficiency	96 %
Peak intensity	0.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





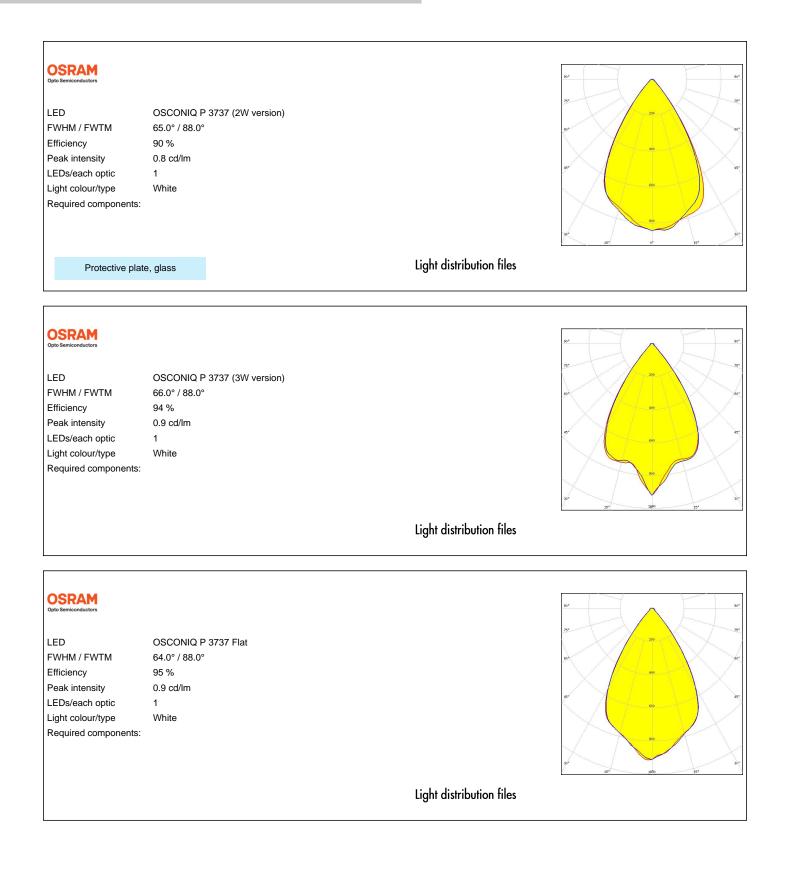
Light distribution files

#### **Μ**ΝΙCΗΙΛ NV4WB35AM I FD 69.0° / 90.0° FWHM / FWTM 95 % Efficiency 0.8 cd/lm Peak intensity LEDs/each optic 1 Light colour/type White Required components: Light distribution files **ΜΝΙCΗΙΛ** LED NVSxx19B/NVSxx19C FWHM / FWTM 70.0° / 90.0° 95 % Efficiency Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files

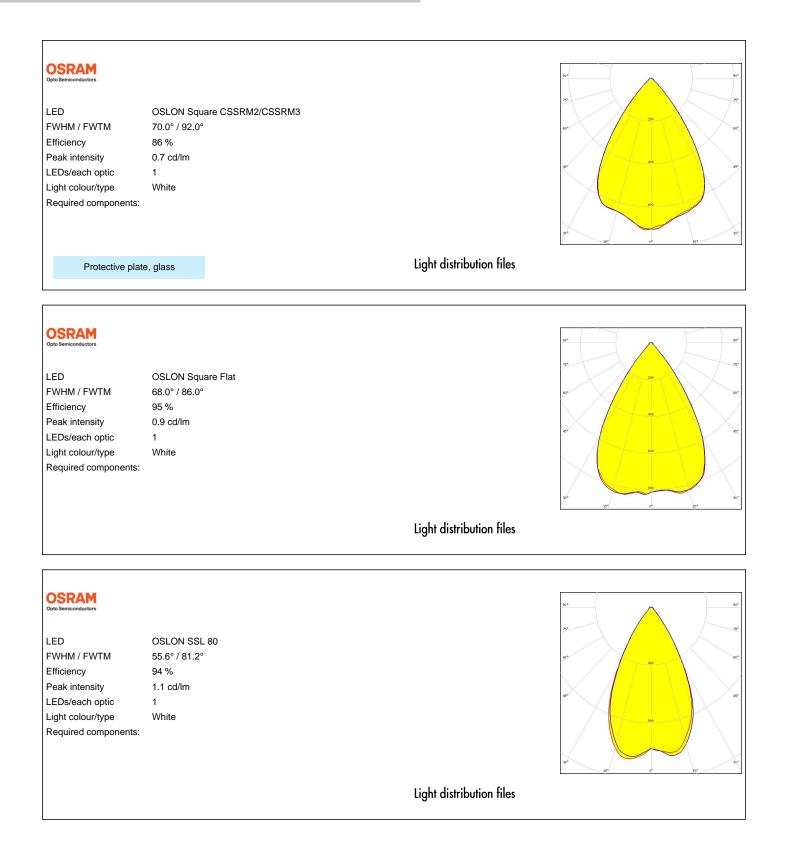


COSRAM Dev Semiconductors	OSCONIQ C 2424 66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White	Light distribution files	5)* 72* 600 600 600 600 600 600 600 600 600 60
		Light distribution files	
COSREM Description EDD FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm 1 White	Light distribution files	25° 6° 72° 6° 6° 6° 5° 5° 5° 5°
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	OSCONIQ P 3737 (2W version) 66.0° / 88.0° 96 % 0.9 cd/lm 1 White	Light distribution files	50 <sup>4</sup> 73 <sup>4</sup> 64 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup>







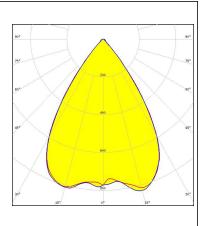




#### OSRAM Opto Semiconductors

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

OSTAR Projection Compact (KW.CSLNM1.TG) 68.0° / 88.0° 96 % 0.8 cd/lm 1 White



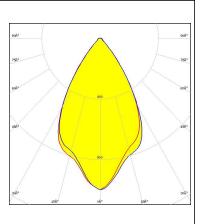
Light distribution files

#### PHILIPS Fortimo FastFlex LED 2x8 DAX G4 I FD FWHM / FWTM 71.0° / 94.0° Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SAMSUNG LED HiLOM RM16 Z (LH502C) FWHM / FWTM 56.0° / 98.0° Efficiency 88 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files Protective plate, glass

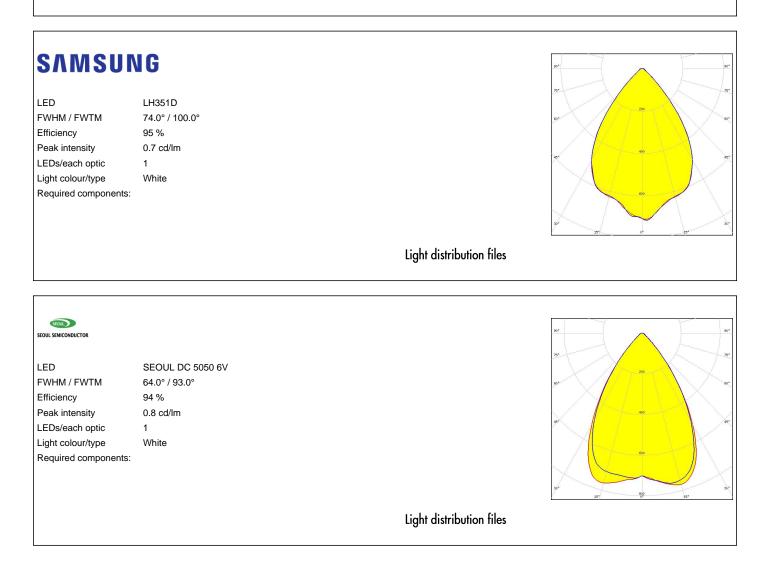


# SAMSUNG

LED	LH231B
FWHM / FWTM	60.0° / 87.0°
Efficiency	94 %
Peak intensity	1 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



Light distribution files



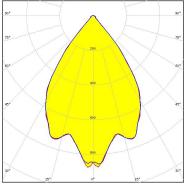


LED FWHM / FWTM Efficiency	Z5M3-E1 72.0° / 86.0°	787
Peak intensity LEDs/each optic Light colour/type Required components	96 % 0.8 cd/lm 1 White ::	
		Light distribution files

#### SEOUL SEMICONDUCTOR

- LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:
- Z5M4-E1 70.0° / 88.0° 96 % 0.9 cd/lm 1 White





Light distribution files

			90,
			75
LED	Z5M4-E2		200
FWHM / FWTM	70.0° / 88.0°		60°
Efficiency	96 %		
Peak intensity	0.9 cd/lm		
LEDs/each optic	1		
Light colour/type	White		
Required components	s:		
		Simulated from photometric data	30* 157 0* 157 30*
		Light distribution files	



SEOUL SEMICONDUCTOR		90°
LED	Z8Y22T	72
FWHM / FWTM	55.0° / 83.0°	60 <sup>1</sup>
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	et all
Light colour/type	White	
Required component	s:	30 <sup>+</sup> 12 <sup>0</sup> 20 <sup>-</sup> 12 <sup>0</sup> 12 <sup>-</sup>
		Light distribution files



# PRODUCT DATASHEET C14606\_HB-2X2-WW

#### **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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#### 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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