

### HB-2X2-RW

 ${\sim}50^\circ$  wide beam optimized for CREE XP-L and XM-L

#### **TECHNICAL SPECIFICATIONS:**

Dimensions

Height

8.5 mm

Fastening pin, s

ROHS compliant

pin, screw yes <sup>①</sup>

50.0 mm

#### **MATERIAL SPECIFICATIONS:**

Component HB-2X2-RW **Type** Multi-lens



Material	Colour	Finish
PMMA	clear	

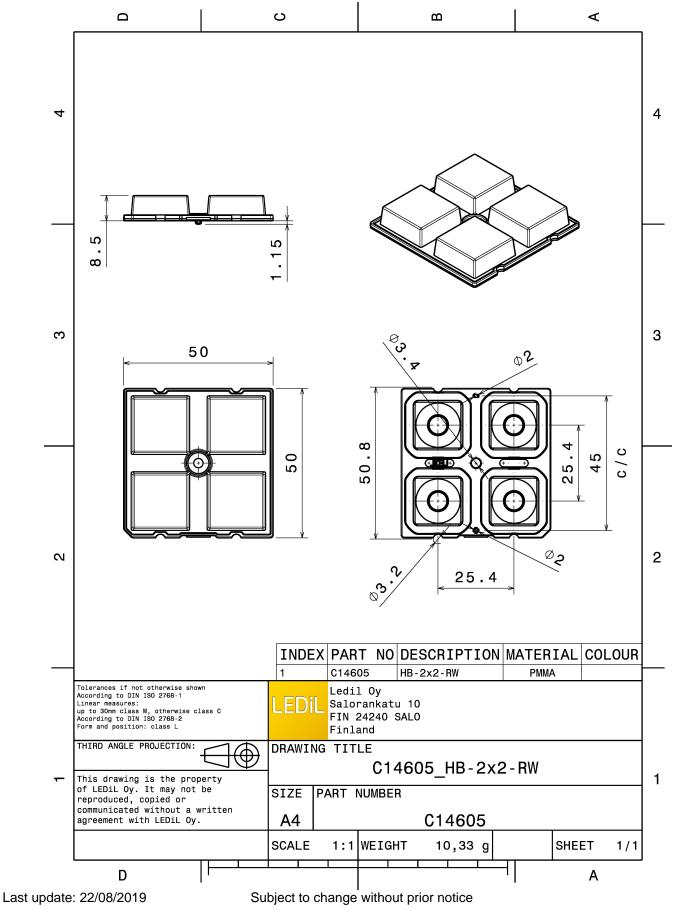
#### **ORDERING INFORMATION:**

#### Component

C14605\_HB-2X2-RW » Box size: 476 x 273 x 292 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	9.1



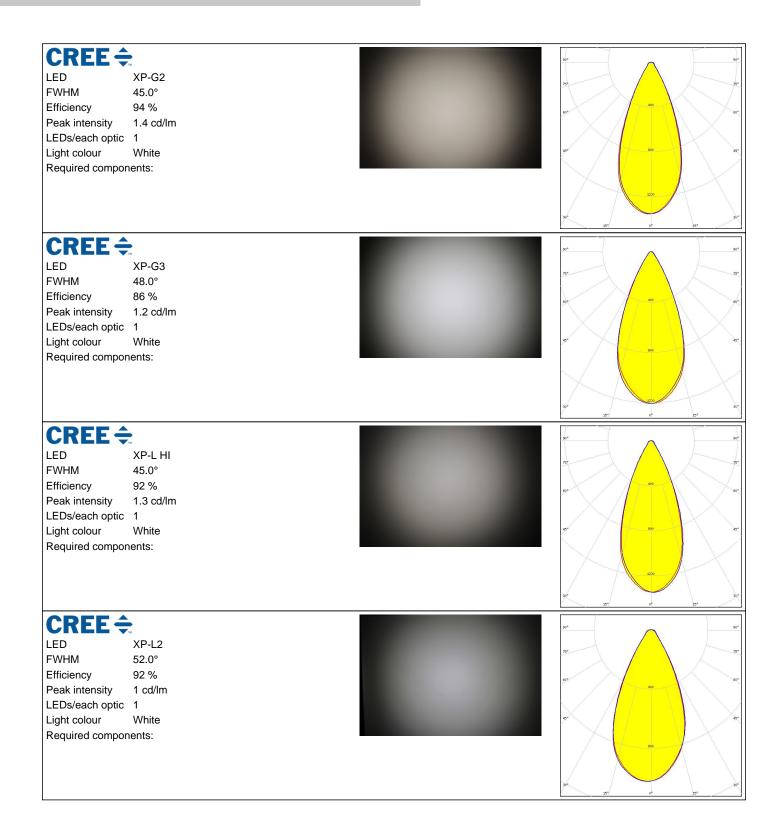


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bridgelux.		50° 50°
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	20 20 20 20 20 20 20 20 20 20
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XD16 54.0° 92 % 0.9 cd/lm 4 White	51 <sup>4</sup> 51
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XD16 44.0° 90 % 1.4 cd/lm 1 White	90 12 0, 0, 12, 0, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XHP35 HD 53.0° 84 % 1 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°







EUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON 5050 Round LES 55.0° 94 % 1 cd/lm 1 White	50° 500 50° 500 50° 500 50° 500 50° 50° 50° 50° 50°
EUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON V 52.0° 93 % 1.1 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	SST-10-B130 44.0° 96 % 1.5 cd/lm 1 Deep Red	
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	NVSW219F 48.0° 94 % 1.2 cd/lm 1 White	



ETRICE NICHIA	NVSW319B 50.0° 94 % 1.2 cd/lm 1 White	21, 22, 64, 12, 24, 24, 24, 25, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25
<b>NICHIA</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	NVSW3x9A 50.0° 93 % 1.2 cd/lm 1 White	27 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
OSRAM LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	PrevaLED Brick HP 2x8 49.0° 94 % 1.3 cd/lm 1 White	92° 900 - 97° 92° - 800 - 97° 92° - 800 - 97° 92° - 800 - 97°
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	20 20 20 20 20 20 20 20 20 20



PHILIPS   LED Fortimo FastFlex LED 2x8 DA G4   FWHM 45.0°   Efficiency 93 %   Peak intensity 1.4 cd/lm   LEDs/each optic 1   Light colour White   Required components: Image: Component State St	
Efficiency 93 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: SAMSUNG LED HILOM RH16 (LH351C) FWHM 48.0°	60
Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White Required components: SAMSUNG LED HiLOM RH16 (LH351C) FWHM 48.0°	œ
LEDs/each optic 1 Light colour White Required components: SAMSUNG LED HiLOM RH16 (LH351C) FWHM 48.0°	a
Light colour White Required components: SAMSUNG LED HILOM RH16 (LH351C) FWHM 48.0°	e
Required components:	X
SAMSUNG LED HILOM RH16 (LH351C) FWHM 48.0°	$\mathcal{A}$
LED HiLOM RH16 (LH351C) FWHM 48.0°	
LED HiLOM RH16 (LH351C) FWHM 48.0°	
LED HiLOM RH16 (LH351C) FWHM 48.0°	15°
LED HiLOM RH16 (LH351C) FWHM 48.0°	90
	1
Efficiency 94 %	( / )er
Peak intensity 1.3 cd/lm	$\wedge$
LEDs/each optic 1	
Light colour White Required components:	
Required components.	
	30
SAMSUNG	90*
LED LH351B	7
FWHM 45.0°	$\sqrt{1}$
Efficiency 86 %	
Peak intensity 1.3 cd/lm	
LEDs/each optic 1 Light colour White	45'
Required components:	
	$\parallel \times$
	$ A \rangle$
**	36'
SAMSUNG	90'
LED LH351D	2
FWHM 49.0°	
Efficiency 94 %	
LEDs/each optic 1	
Light colour White	
Required components:	
	$\lambda \times$



SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LH508A 56.0° 93 % 1 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	
SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	24 22 24 24 24 24 24 24 24 24 24 24 24 2
scoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	27 29 29 29 29 20 20 20 20 20 20 20 20



SEQUI SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	
SECUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	
seoul seniconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	30° 10° 10° 10° 10° 10° 10° 10° 1
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE 2x4 2000lm HP EXC2 OTD 46.0° 94 % 1.4 cd/lm 1 White	



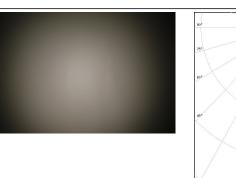
<b>TRIDON</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE 2x8 4000lm HP EXC2 OTD 46.0° 94 % 1.4 cd/lm 1 White	100 0000 000 000 000 000 000 000 0000 000 00
<b>TRIDON</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE G1 49x121mm 2000lm xxx EXC OTD 46.0° 94 % 1.4 cd/lm 1 White	
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE G1 49x133mm 2000lm xxx EXC OTD 46.0° 94 % 1.4 cd/lm 1 White	20 00 00 00 00 00 00 00 00 00
<b>TRIDON</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° 94 % 1.4 cd/lm 1 White	



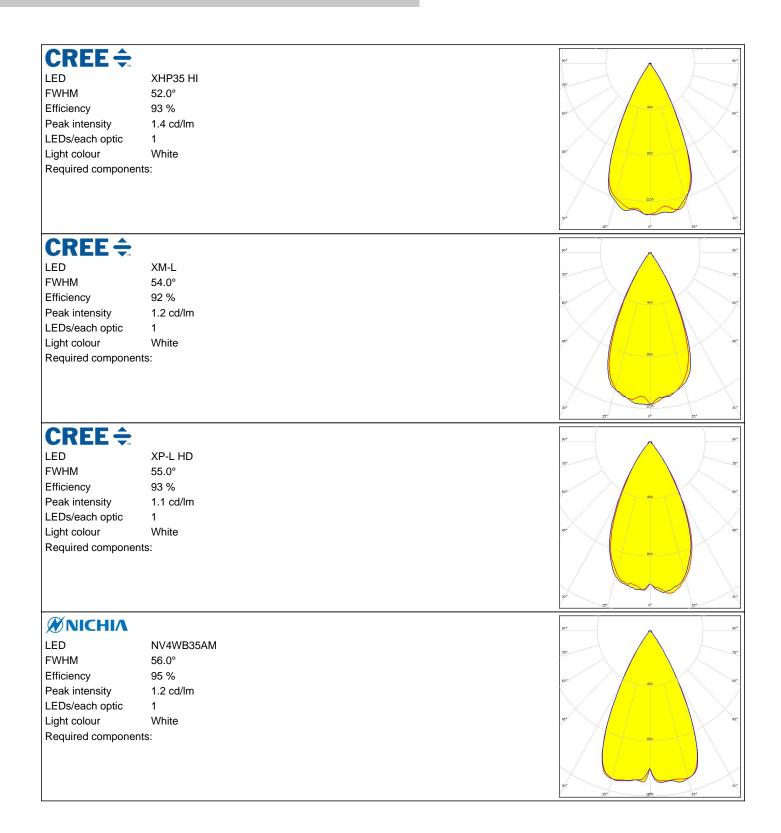
### PHOTOMETRIC DATA (MEASURED):

## TRIDONIC

LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM	46.0°	
Efficiency	94 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		









OSRAM Opto Semiconductors		90 <sup>4</sup>
LED	Duris S8	25*
FWHM	53.0°	
Efficiency	91 %	60° 400 60°
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	₫° (3°
Required component	nts:	34 <sup>4</sup> 32 <sup>5</sup> 32 <sup>4</sup>
OSRAM Opto Semiconductors		90° 90°
LED	Duris S8	
FWHM	57.0°	75* 200
Efficiency	90 %	
Peak intensity	1 cd/lm	60° (0°
LEDs/each optic	1	
Light colour	White	47° 47°
Required componer		500
Transparent pro	rective cover	
		30*
OCDAM		15% 18%0 15*
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3030	
FWHM	42.0°	
Efficiency	96 %	60 <sup>6</sup>
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr gr
Required componer	nts:	322
		30° 25° 0° 15°
OSRAM Opto Semiconductors		30*
LED	OSCONIQ P 3737 (2W version)	
FWHM	45.0°	25* 25*
Efficiency		
1	96 %	60° enº
Peak intensity	96 % 1.7 cd/lm	60°
		90
Peak intensity	1.7 cd/lm	ar
Peak intensity LEDs/each optic	1.7 cd/lm 1 White	gr 67



OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	OSCONIQ P 3737 (3W version) 52.0° 94 % 1.4 cd/lm 1 White tts:	
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	OSCONIQ P 3737 Flat 50.0° 96 % 1.4 cd/lm 1 White its:	
PHILIPS LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo FastFlex LED 2x8 DAX G4 51.0° 94 % 1.3 cd/lm 1 White	
scoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required component	SEOUL DC 5050 6V 54.0° 94 % 1.1 cd/lm 1 White	



SEOUL SEMICONDUCTOR		90 <sup>+</sup>
LED	Z8Y22T	75*
FWHM	51.0°	
Efficiency	94 %	400 - 60°
Peak intensity	1.4 cd/lm	$\Gamma \times / / \wedge \times \uparrow$
LEDs/each optic	1	
Light colour	White	97 - 860 - er
Required componer	its:	2300 2300 200



#### **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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