

PRODUCT DATASHEET C14605_HB-2X2-RW

HB-2X2-RW

 ${\sim}50^\circ$ wide 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
HB-2X2-RW	Multi-lens	PMMA	clear	

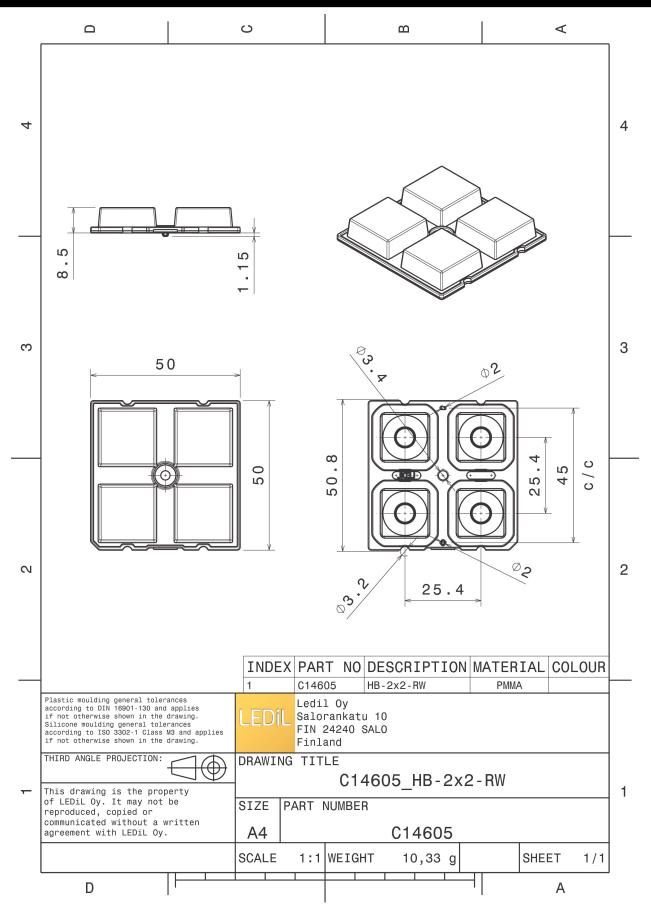
ORDERING INFORMATION:

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

PRODUCT DATASHEET C14605_HB-2X2-RW



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



bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Bridgelux SMD 5050 56.0° / 89.0° 94 % 0.9 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 54.0° / 85.0° 92 % 0.9 cd/lm 4 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 44.0° / 71.0° 90 % 1.4 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP35 HD 53.0° / 82.0° 84 % 1 cd/lm 1 White nts:	



CREE Constructions LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L3 52.0° / 79.0° 95 % 1.1 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 45.0° / 73.0° 94 % 1.4 cd/lm 1 White nts:	
		91 ⁴ 25 ⁴ 6 ⁴ 25 ³ 36 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 48.0° / 75.0° 86 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HI 45.0° / 72.0° 92 % 1.3 cd/lm 1 White nts:	



		50° 50°
LED	XP-L2	
FWHM / FWTM	52.0° / 83.0°	77
Efficiency	92 %	
Peak intensity	1 cd/lm	60 ¹
LEDs/each optic	1	
Light colour	White	g. a.
Required compone		
		00 00
		255 eV 159
UMIL	EDS	50* 50*
LED	LUXEON 5050 Round LES	
FWHM / FWTM	55.0° / 87.0°	
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	er un
Required compone	nts:	
		30* 500 30*
	EDC	135 ⁴ d ⁴ 155 ⁴
		50° 50°
LED	LUXEON V	3. 3.
FWHM / FWTM	52.0° / 81.0°	
Efficiency	93 %	60 ¹ 60 ¹
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
1		
		20 er 20 50 50 50 50 50 50 50 50 50 50 50 50 50
	NUS	90°
		90 ³ 0 ³ 95 ³
LED	SST-10-B130	
LED FWHM / FWTM	SST-10-B130 44.0° / 70.0°	90 ³ 0 ³ 95 ³
LED FWHM / FWTM Efficiency	SST-10-B130 44.0° / 70.0° 96 %	90 ³ 0 ³ 95 ³
LED FWHM / FWTM Efficiency Peak intensity	SST-10-B130 44.0° / 70.0°	90 ³ 0 ³ 95 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SST-10-B130 44.0° / 70.0° 96 % 1.5 cd/lm 1	90 ³ 0 ³ 95 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 44.0° / 70.0° 96 % 1.5 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SST-10-B130 44.0° / 70.0° 96 % 1.5 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 44.0° / 70.0° 96 % 1.5 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SST-10-B130 44.0° / 70.0° 96 % 1.5 cd/lm 1 Deep Red	



MST Your solut	tions	30* 30*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	46.0° / 72.5°	75°
Efficiency	97 %	400
Peak intensity	1.4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	az. 800 az.
Required compone		
		1230
		30° 15° 0° 30°
ØNICHI		90° 90°
LED	NVSW219F	
FWHM / FWTM	49.0° / 76.0°	75.
Efficiency	96 %	400
Peak intensity	1.3 cd/lm	60°
LEDs/each optic	1	$ \times // \wedge \times $
Light colour	White	gr
Required compone		
		1220
		30° 15° 0° 35°
Ø NICHI∕		90° 90°
		99°
LED	NVSW219F	35°
LED FWHM / FWTM		24°
LED FWHM / FWTM Efficiency	NVSW219F 48.0° / 76.0° 94 %	60°
LED FWHM / FWTM Efficiency Peak intensity	NVSW219F 48.0° / 76.0°	59 ⁴ 59 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm	91 ⁴ 92 ⁴
LED FWHM / FWTM Efficiency Peak intensity	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White	5° 50 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White	5° 50 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White	90° 99 73° 99 73° 600 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White ints:	31. 32. 33.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White ints: NVSW319B 50.0° / 79.0° 94 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Equired compone WHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White NVSW319B 50.0° / 79.0° 94 % 1.2 cd/lm 1 White	27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White NVSW319B 50.0° / 79.0° 94 % 1.2 cd/lm 1 White	80 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White NVSW319B 50.0° / 79.0° 94 % 1.2 cd/lm 1 White	80 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White NVSW319B 50.0° / 79.0° 94 % 1.2 cd/lm 1 White	80 ⁻



ØNICHI Λ		50 ⁴
LED	NVSW3x9A	
FWHM / FWTM	50.0° / 78.0°	
Efficiency	93 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Required compone		
		30 ⁴ 1220 3
OSRAM	1	30 ⁴
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	49.0° / 72.0°	
Efficiency	94 %	
Peak intensity	94 % 1.3 cd/lm	
LEDs/each optic	1	
	ı White	
Light colour		
Required compone	nts:	
		128
		20 m m m m m m m m m m m m m m m m m m m
OSRAM		90*
Opto Semiconductors		
LED	Duris S8	75
FWHM / FWTM	56.0° / 89.0°	
Efficiency	95 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		30 ⁴ 35 ⁵ 1400 55 ⁵
OSRAM		90
Opto Semiconductors		
FWHM / FWTM	OSCONIQ C 3030	
Efficiency	45.0° / 71.0° 94 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1 W/bite	
Light colour	White	
Required compone	nts:	
		1200
		15% 0° 35



OSRAM Opto Semiconductors		5v*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	49.0° / 72.0°	
Efficiency	94 %	er - 400
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	9* / · · · · · · · · · · · · · · · · · ·
Required compone	ents:	
		1200
		×-
PHILI	S	215° d ^a 15°
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	45.0° / 71.0°	
Efficiency	45.0 / / 1.0 93 %	
Peak intensity	93 % 1.4 cd/lm	
LEDs/each optic	1	
Light colour	' White	er 100
Required compone		
		120
		30° 0° 15'
PHILI	25	50*
		8*
LED	Fortimo FastFlex LED 2x8 DA G4+	30'
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0°	30 ⁴
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 %	30° 75 60° - 400
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0°	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	9°*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	9°*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	9°*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White ents: JNGG HiLOM RC12 Z (LH181B) 41.0° / 71.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White ents: JNG HiLOM RC12 Z (LH181B) 41.0° / 71.0° 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White white mts: JNG HiLOM RC12 Z (LH181B) 41.0° / 71.0° 97 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White white MILOM RC12 Z (LH181B) 41.0° / 71.0° 97 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White white MILOM RC12 Z (LH181B) 41.0° / 71.0° 97 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White white MILOM RC12 Z (LH181B) 41.0° / 71.0° 97 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 48.0° / 77.0° 96 % 1.2 cd/lm 1 White white MILOM RC12 Z (LH181B) 41.0° / 71.0° 97 % 1.6 cd/lm 1 White	



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 Z (LH351C) 48.0° / 75.0° 96 % 1.3 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) 48.0° / 75.0° 94 % 1.3 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 Z (LH502C) 55.0° / 88.0° 95 % 1 cd/lm 1 White	
SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) 55.0° / 89.0° 96 % 1 cd/lm 1 White	



SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B 45.0° / 74.0° 86 % 1.3 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	LH351D 49.0° / 82.0° 94 % 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH508A 56.0° / 87.0° 93 % 1 cd/lm 1 White	



EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LED-Pa-L15c2W11c2-xxx-C050-01 47.0° / 76.0° 96 % 1.3 cd/lm 1 White	
stoul standconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	2x2 Y22 module - SMJQ-D48W16AA-XX 54.0° / 94.0° 92 % 0.8 cd/lm 1 White ents:	
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M3 47.0° / 75.0° 94 % 1.3 cd/lm 1 White ents:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M4 49.0° / 76.0° 96 % 1.3 cd/lm 1 White ents:	



seout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y19 54.0° / 94.0° 92 % 0.8 cd/lm 4 White nts:	
SEOUL		
seoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y19 54.0° / 94.0° 92 % 0.8 cd/lm 4 White nts:	
SEOUL		
scout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22P 48.0° / 77.0° 92 % 1.2 cd/lm 1 White nts:	
		25 0° 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x4 2000lm HP EXC2 OTD 46.0° / 71.0° 94 % 1.4 cd/lm 1 White	



TDIDON		
TRIDON	liC	90* 90*
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	46.0° / 71.0°	75
Efficiency	94 %	400
Peak intensity	1.4 cd/lm	60°
LEDs/each optic	1	
	White	45° 45°
Light colour		
Required compone	nts.	
		1220
		30* 15° 0° 15° 30*
TRIDON		
		90* 90*
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	75*
FWHM / FWTM	46.0° / 73.0°	
Efficiency	94 %	60°
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required compone	nts:	
		2450
		36* 36*
		 153 00 159
TRIDOM	IIC	90* 90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	46.0° / 73.0°	
Efficiency	94 %	800 60*
Peak intensity	1.4 cd/lm	
Peak intensity		
LEDs/each optic	1	
		ar 100 ar
LEDs/each optic	1 White	gy
LEDs/each optic Light colour	1 White	gy
LEDs/each optic Light colour	1 White	gy 100 gy
LEDs/each optic Light colour	1 White	gr 100 gr
LEDs/each optic Light colour Required compone	1 White nts:	200 - 200 -
LEDs/each optic Light colour Required compone	1 White nts:	2000 67 2000 6
LEDs/each optic Light colour Required compone	1 White nts:	
LEDs/each optic Light colour Required compone	1 White nts: IIC RLE G1 49x223mm 4000lm xxx EXC OTD	200 00 00 00 00 00 00 00 00 00
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	1 White Ints: RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0°	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	1 White Ints: RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 %	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	1 White Ints: RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Ints: RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White INIC RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White INIC RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White INIC RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	
LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White INIC RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	



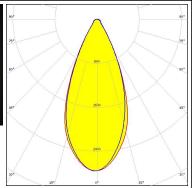
TRIDONIC

LED

FWHM / FWTM46Efficiency94Peak intensity1.4LEDs/each optic1Light colourWRequired components:

RLE G1 49x245mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White







		90° 90°
	VUDOF U	
	XHP35 HI 52.0° / 68.0°	75°
	93 %	
	93 % 1.4 cd/lm	60* 60°
	1	
LEDs/each optic Light colour	White	47° 45°
Required components:	Wine	
Required components.		
		1200
		30° 30° 30° 15°
		90 ⁴ 90 ⁴
	XM-L	
	54.0° / 74.0°	75'
	92 %	
	1.2 cd/lm	60* 60*
	1	
	White	az., az.
Required components:		800
		310 1230 310
		15° 0° 15°

CREE ÷	XP-G3	99 ⁴ 99 ⁴
LED	XP-G3 52.0° / 74.0°	33 39 39 39 39 39
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	52.0° / 74.0°	25° ¢ 25°
LED FWHM / FWTM Efficiency	52.0° / 74.0° 89 %	04 00 04 05 00 04 05 07 05 00 05
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	52.0° / 74.0° 89 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	52.0° / 74.0° 89 % 1.2 cd/lm 1	55° (° 15° 66° (10°) 55° (° 10°) 50° (10°) 50° (10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	52.0° / 74.0° 89 % 1.2 cd/lm 1 White	00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 74.0° 89 % 1.2 cd/lm 1 White	23. 00 25. 35. 00 25. 35. 00 25.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	52.0° / 74.0° 89 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate,	52.0° / 74.0° 89 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate,	52.0° / 74.0° 89 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, LEDs LED	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, CREE LEDs LED FWHM / FWTM	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0°	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, CREE LED FWHM / FWTM Efficiency	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 %	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, CREE LED FWHM / FWTM Efficiency Peak intensity	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 % 1.1 cd/lm	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, Protective plate, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 % 1.1 cd/lm 1	60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, Protective plate, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 % 1.1 cd/lm	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, Protective plate, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 % 1.1 cd/lm 1	60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, Protective plate, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 % 1.1 cd/lm 1	60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate, Protective plate, LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	52.0° / 74.0° 89 % 1.2 cd/lm 1 White , glass XP-L HD 55.0° / 79.0° 93 % 1.1 cd/lm 1	60° 60°



		50°	90
LED	XP-L HD		\wedge
FWHM / FWTM	56.0° / 78.0°	75	
Efficiency	90 %		
Peak intensity	1.1 cd/lm	90×	400 60°
LEDs/each optic	1		
Light colour	White	gr /	434
Required components:			
Protective pla			
	, , ,		
		30 ⁵	0° 15°
		94 ¹⁰	, ee
LED	XP-L HI		
FWHM / FWTM	48.0° / 72.0°	23	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Efficiency	90 %	and the second se	400
Peak intensity	1.4 cd/lm	\sim	
LEDs/each optic	1		
Light colour	White	er	800 a74
Required components:			
Protective pla	ite, glass		1230
		34	0° 25° de
			90'
LED	XP-L2		
FWHM / FWTM	58.0° / 82.0°	73*	200
Efficiency	89 %		
Peak intensity	1 cd/lm		400
LEDs/each optic	1		
Light colour	White	az. /	600
Required components:			
			me h
Protective pla	ite, glass		
		394	1000 30° 30°
		20*	90*
LEDS	XP-P		\wedge
FWHM / FWTM	40.0° / 66.0°	75	400
Efficiency	91 %		
Peak intensity	1.8 cd/lm		
LEDs/each optic	1.0 cu/im		800
Light colour	White	94	
Required components:			120
Protective pla			1630
		304	38



🥙 LUMILEI	DS	90*
LED	LUXEON HL2X	25'
FWHM / FWTM	50.0° / 76.0°	
Efficiency	94 %	60° 60°
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45 ⁴
Required components:		
		1220
		30 ⁰ 0, 120, 0
🖉 LUMILEI	DS	99*
LED	LUXEON HL2X-D	
FWHM / FWTM	56.0° / 76.0°	
Efficiency	96 %	605 400 6
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	45 ² 4
Required components:		800
		30° 22)0 3
	DS	90* 9
LED	LUXEON HL2X-D	
FWHM / FWTM	56.0° / 76.0°	
Efficiency	88 %	
Peak intensity	1.1 cd/lm	400
LEDs/each optic	1	
Light colour	White	ar a
Required components:		800
Required components: Protective plat	e, glass	00-
	e, glass	3 ¹⁷ 30 0 ¹ 10 ² 3
Protective plat		 3 ⁴ 3 ⁵ 3 ⁵
Protective plat	DS	 30 ⁴
Protective plat		20- 20- 20- 20- 20- 20- 20- 20-
Protective plat	DS LUXEON HL2X-P	30 ⁴
Protective plat	DS LUXEON HL2X-P 54.0° / 80.0°	30 ⁴
Protective plat	DS LUXEON HL2X-P 54.0° / 80.0° 94 %	30 ⁴
Protective plat	DS LUXEON HL2X-P 54.0° / 80.0° 94 % 1.2 cd/lm	90 ⁴
Protective plat	DS LUXEON HL2X-P 54.0° / 80.0° 94 % 1.2 cd/lm 1	
Protective plat	DS LUXEON HL2X-P 54.0° / 80.0° 94 % 1.2 cd/lm 1	
Protective plat	DS LUXEON HL2X-P 54.0° / 80.0° 94 % 1.2 cd/lm 1	



FWHM / FWTM 46 0° / 66.0° Efficiency 94 % Pack Intensity 1.7 cd/m LED&/each optic 1 LED/each optic 1 Filler LUXEON XR-HL2X (L2H2-xxxxxxMLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 89 % Peak Intensity 1.1 cd/m LED/each optic 1 Light colour White Required components: If the		05	90* 90
Efficiency 94% Peak intendity 1.7 cd/m Light colour White Required components: PUMPILEDX LED KARPHLEX (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° Filiciency 88% Peak intendity 1.1 cd/m Light colour White Required components: Protective plate, glass Public NXR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° ELD LUXEON XR-HL2X (L2H2-xxxxxxMLU010) PWHM / FVTM 540° / TA 0° PWHM / FVTM / FVTM 540° / TA 0° PWHM / FVTM 1540° / TA 0° PWHM	LED	LUXEON HL2Z	73
Pask Intensity 1.7 colon LEDX act optio 1 LEDX act optio 1 Protective plate, glass Protective plate, glass Protectiv	FWHM / FWTM		400
LEDa/each optic 1 Light colour White Required components: PULNELEDS LED LUXEON XR:HL2X (L2H2:x000000MLU010) FWIM / FWIM 54/0* / 76.0° Efficiency 88% Peak intensity 11 od/m LEDa/each optic 1 LEDa/each optic 1 LEDa/each optic 1 Protective plate, glass PULNELEDS LED LUXEON XR:HL2X (L2H2:x000000MLU010) FWIM / FWIM 54.0* / 76.0° Efficiency 96% Peak intensity 2 2 od/m LEDa/each optic 1 LEDa/each optic	Efficiency		600 6
Light colour While Required components:			
Required components:			
Image: Constraint of the second of the se		White	9x / / /
LED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 88% Peak intensity 1.1 cd/lm LEDS/each optic 1 Light colour White Required components: ED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 96% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: ED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% FWHM / FWTM 56.0° FWHM / FWTM	Required components:		1230
LED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 88% Peak intensity 1.1 cd/lm LEDS/each optic 1 Light colour White Required components: ED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 96% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: ED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% FWHM / FWTM 56.0° FWHM / FWTM			
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LED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 88% Peak intensity 1.1 cd/lm LEDS/each optic 1 Light colour White Required components: ED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 96% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: ED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% FWHM / FWTM 56.0° FWHM / FWTM			30° 15° 0° 15°
LED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 88% Peak intensity 1.1 cd/lm LEDS/each optic 1 Light colour White Required components: ED LUXEON XR-HL2X (L2H2-xxxxxxdHLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 96% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: ED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 cd/lm Light colour White Required components: FWHM / FWTM 56.0° / 74.0° Efficiency 95% FWHM / FWTM 56.0° FWHM / FWTM)S	90*
FWHM / FWTM 54.0° / 76.0° Efficiency 88 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components:	LED		
Efficiency 88 % Peak intensity 1.1 cd/m LEDPiceach optic 1 Light colour White Required components: Protective plate, glass CUMILEDS LED LUXEON XR-HL2X (L2H2-xxxxxxMLU010) FWHM / FWTM 54:0° / 76.0° Efficiency 96 % Peak intensity 1.2 cd/m LED seach optic 1 Light colour White Required components: LED NV4WB35AM FWHM / FWTM 56:0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/m LED seach optic 1 Light colour White Required components: LED NV4WB35AM FWHM / FWTM 56:0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/m LED seach optic 1 Light colour White Required components: Hight colour White Required components: Hight colour White	FWHM / FWTM		
Peak intensity 1.1 cd/m LEDS/each optic 1 Light colour White Required components: Protective plate. glass Protective plate. glass Protective plate. glass	Efficiency		
LEDs/each optic 1 Light colour White Required components: Protective plate, glass CUNILEDS LED LUXEON XR-HL2X (L2H2:xxxxxxxMLU010) FWH4 /FWTM 54.0° / 76.0° Efficiency 96% Peak intensity 1.2 col/m LEDs/each optic 1 Light colour White Required components: CONCLIN LED NV4WB35AM FWH4 /FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 col/m LED LIGHT COMPONENTS EFD NV4WB35AM FWH4 /FWTM 56.0° / 74.0° Efficiency 95% Peak intensity 1.2 col/m LED LIGHT			60° 60°
Light colour White Required components: Protective plate, glass CUNILEDS LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) EWHM / FWTM 54.0° / 76.0° Efficiency 96 % Peak intensity 1.2 cd/lm LEDS/each optic 1 Light colour White Required components: ED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LED Light colour White Required components: ET Component		1	
Required components: Protective plate, glass	Light colour	White	a2
Image: Constraint of the second se	Required components:		
Image: Constraint of the second se			
Image: Components: Image: Components: Image: Components: Image: Components:	Protective plate	e, glass	
LUXILEDS LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 96 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Color of the second s			364 170 1200 140 30
LED LUXEON XR-HL2X (L2H2-xxxxxxxMLU010) FWHM / FWTM 54.0° / 76.0° Efficiency 96 % Peak intensity 1.2 cd/m LEDs/each optic 1 LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/m LEDs/each optic 1 Light colour White Required components:			
FWHM / FWTM 54.0° / 76.0° Efficiency 96 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:		DS	90* 90
Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:			30 ⁺
LEDs/each optic 1 Light colour White Required components:		LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	91 9 71 7
Light colour White Required components: White CONCCHIAN LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: White	LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0°	
Required components:	LED FWHM / FWTM	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 %	
Image: Decision of the second seco	LED FWHM / FWTM Efficiency	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm	99 ³
LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: 60	LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1	9 ¹ 60 61 77 70 70 70 70 70 70
LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: 60	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1	99 ³ 99 ³ 60 60 60 60 60
LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: 60	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1	99 ⁴ 79 99 90 90 90 90 90 90 90 90 90 90 90 90
LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: 60	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1	99 ⁴ 79 ⁴ 60 60 7 ⁵ 90
LED NV4WB35AM FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: 60	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1	99 ⁵ 99 ⁵ 99 99 99 90 90 90 90 90 90 90 90 90 90
FWHM / FWTM 56.0° / 74.0° Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components: 6	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1	Ba. Ba Ba 20, 20, 20, </td
Efficiency 95 % Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxXMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White	30, 32, 0, 32, 60, 00, 00, 00, 35, 00, 00, 00, 36, 00, 00, 00,
Peak intensity 1.2 cd/lm LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White	
LEDs/each optic 1 Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White	
Light colour White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White NV4WB35AM 56.0° / 74.0° 95 %	
Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White NV4WB35AM 56.0° / 74.0° 95 % 1.2 cd/lm	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White NV4WB35AM 56.0° / 74.0° 95 % 1.2 cd/lm 1	20. 40 30. 90 30. 90 30. 90 30. 90 30. 90
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White NV4WB35AM 56.0° / 74.0° 95 % 1.2 cd/lm 1	60*
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White NV4WB35AM 56.0° / 74.0° 95 % 1.2 cd/lm 1	60* 60
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 54.0° / 76.0° 96 % 1.2 cd/lm 1 White NV4WB35AM 56.0° / 74.0° 95 % 1.2 cd/lm 1	60



OSRAM Opto Semiconductors		50° 50°
LED	Duris S8	
FWHM / FWTM	57.0° / 83.0°	757 757
Efficiency	90 %	
Peak intensity	1 cd/lm	60°-
LEDs/each optic	1	
Light colour	White	g1*
Required components:		
Protective plate	e, glass	
		30° 30°
		13° 10°10 13°
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ C 2424	
FWHM / FWTM	45.0° / 62.0°	400
Efficiency	96 %	605
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	47° 4230 47°
Required components:		
		1500
		\times / \setminus / \times
		30° 2000 30°
OCDAM		(135 [°] 0 [°] 15 [°]
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3030	75*
FWHM / FWTM	42.0° / 64.0°	
Efficiency	96 %	60* 60*
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	a.
Required components:		
		1679
		30° 30° 30°
OSRAM		200 00 100 000
OSRAM Opto Semiconductors		30* 30 0* 30* 30* 0* 30* 30*
Opto Semiconductors	OSCONIQ P 3737 (2W version)	90 ² 90 ²
^{Opto Semiconductors} LED FWHM / FWTM	45.0° / 68.0°	90 ² 90 ²
^{opto Semiconductors} LED FWHM / FWTM Efficiency	45.0° / 68.0° 96 %	32 94 96
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	45.0° / 68.0° 96 % 1.7 cd/lm	90 ⁴ 90 ⁴
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	45.0° / 68.0° 96 % 1.7 cd/lm 1	90 ⁴ 90 ⁴ 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 68.0° 96 % 1.7 cd/lm	92
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	45.0° / 68.0° 96 % 1.7 cd/lm 1	900 91 90 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 68.0° 96 % 1.7 cd/lm 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 68.0° 96 % 1.7 cd/lm 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	45.0° / 68.0° 96 % 1.7 cd/lm 1	gr



OCDAM		
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	52.0° / 72.0°	
Efficiency	94 %	400
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 800 45°
Required components:		
		1200
		30° 170 00 170 310
OSRAM		
Opto Semiconductors		
LED	OSCONIQ P 3737 Flat	75* 75*
FWHM / FWTM	50.0° / 68.0°	400
Efficiency	96 %	50° - 60°
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	840
Light colour	White	\mathbb{N}
Required components:		
		1220
		36° 35° 32°
OSRAM		
		90* 90*
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90 ⁴
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 50.0° / 72.0°	35. 26. 26.
opto Semiconductors LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 50.0° / 72.0° 87 %	90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency	50.0° / 72.0° 87 %	60°
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity	50.0° / 72.0°	50° 50° 50°
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 72.0° 87 % 1.3 cd/lm	6
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity	50.0° / 72.0° 87 % 1.3 cd/lm 1	27. 0.6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	50.0° / 72.0° 87 % 1.3 cd/lm 1 White	5° 5° 5° 6° 6° 6° 6° 6° 6° 6° 6° 6°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 72.0° 87 % 1.3 cd/lm 1 White	50° 50° 75° 75° 60° 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	50.0° / 72.0° 87 % 1.3 cd/lm 1 White	30°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	50.0° / 72.0° 87 % 1.3 cd/lm 1 White	20, 20,
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors	50.0° / 72.0° 87 % 1.3 cd/lm 1 White	30°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED	50.0° / 72.0° 87 % 1.3 cd/lm 1 White 9, glass OSLON Square Flat	20° - 0°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	50.0° / 72.0° 87 % 1.3 cd/lm 1 White 0, glass OSLON Square Flat 43.0° / 64.0°	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 %	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 % 1.8 cd/lm	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 % 1.8 cd/lm 1	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 % 1.8 cd/lm	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 % 1.8 cd/lm 1	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 % 1.8 cd/lm 1	20 ⁴ 12 ⁵ 25 ⁴ 20 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 72.0° 87 % 1.3 cd/lm 1 White e, glass OSLON Square Flat 43.0° / 64.0° 96 % 1.8 cd/lm 1	20 ⁴ 12 ⁵ 25 ⁴ 25 ⁴



OSRAM		50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSTAR Projection Compact (KW.CSLNM1.TG) 42.0° / 64.0° 96 % 1.8 cd/lm 1 White	
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DAX G4 51.0° / 73.0° 94 % 1.3 cd/lm 1 White	99° 99° 75° - 60° - 60° 0° - 60° - 60°
SAMSUN LED	I G HILOM RM16 Z (LH502C)	20 ⁴ 22 ⁵ 25 ⁴ 25 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	56.0° / 90.0° 89 % 0.9 cd/lm 1 White	77 78 78 78 78 78 78 78 78 78
Protective plate	e, glass	30 ⁴ 137 - 15 ⁵ 30 ⁴
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 5050 6V 54.0° / 79.0° 94 % 1.1 cd/lm 1 White	90 ³ 72 ⁴ 60 ⁴ 60 60 60 60 60 60 60 60 60 60



SEOUL SEMICONDUCTOR		50 ⁴
LED	Z8Y22T	75
FWHM / FWTM	51.0° / 69.0°	
Efficiency	94 %	60°
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr ² 63.
Required component	S:	
		1200
		34 ⁵



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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