

PRODUCT DATASHEET C14606_HB-2X2-WW

HB-2X2-WW

~65° wide beam optimized for CREE XP-L and XM-L

TECHNICAL SPECIFICATIONS:

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



MATERIAL SPECIFICATIONS:

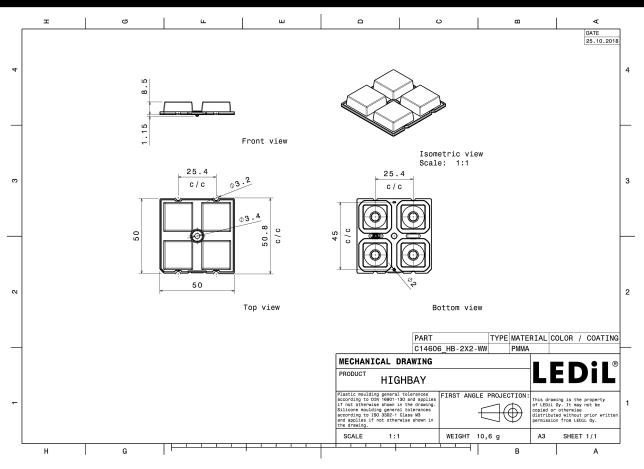
ComponentTypeMaterialColourHB-2X2-WWMulti-lensPMMAclear

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14606_HB-2X2-WW	800	160	160	9.2
» Box size: 480 x 280 x 300 mm				

Finish

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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Bridgelux SMD 5050 59.0° / 96.0° 94 % 0.8 cd/lm 1 White nts:	
CREE CLET LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 61.0° / 97.0° 92 % 0.8 cd/lm 4 White	
CREE LEE EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 63.0° / 92.0° 93 % 0.8 cd/lm 1 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP35 HD 67.0° / 100.0° 84 % 0.7 cd/lm 1 White	



-		
		21 ⁴
LED	XM-L	
FWHM / FWTM	66.0° / 99.0°	
Efficiency	93 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	
		30* <u>500</u> 30* 30*
		20° 29°
LED	XM-L2	
FWHM / FWTM	62.0° / 96.0°	
Efficiency	92 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er et
Required compone	nts:	
		347 307
	5	207 0 ⁴ 10 ²
LED	XM-L3	
FWHM / FWTM	70.0° / 98.0°	72
Efficiency	94 %	
Peak intensity	94 /8 0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er /
Required compone		
		3 ¹
		137 22
		90 ⁴ 90 ⁴
LED	XP-G2	72 77
FWHM / FWTM	63.0° / 93.0°	
Efficiency	91 %	61*
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		30 ¹ 0 ² 0 ³ 0 ³



ODEE A NEED				
			90°	90*
LED	XP-G3			
FWHM / FWTM	63.0° / 95.0°		75*	100
Efficiency	90 %		200	//
Peak intensity	0.8 cd/lm			
LEDs/each optic	1		400	\sim
Light colour	White		97	6.
Required componen				X
Protective	plate, glass		X X	\wedge
			30° 200 0°	15°
			90°	90*
LED	XP-G3	1.00		M
FWHM / FWTM	64.0° / 94.0°		75*	A Tax
Efficiency	86 %		60°	A Xant
Peak intensity	0.8 cd/lm			
LEDs/each optic	1		400	
Light colour	White		97×	
Required componen	nts:			X
			$\times \wedge \cup$	$\wedge \times$
			300 300	30*
	0		90°	35°
LED	XP-L HD		\square	
FWHM / FWTM	66.0° / 102.0°		75*	10
Efficiency	93 %			\mathcal{N}
Peak intensity	0.7 cd/lm		60*	60.
LEDs/each optic	1			X
Light colour	White			
			et /	6*
Required component	nts:		*	55*
Required componen	nts:		est	
Required componer	nts:			
Required componer	nts:		20	
	5	 _	90° 000 90° 10° 000	127 127 127 127 127
	XP-L2			10 ⁻ 10 ⁻ 1
CREE LED LED FWHM / FWTM	XP-L2 62.0° / 101.0°		30*	25 25 25 25 25 25 25 25 25 25 25 25 25 2
LED FWHM / FWTM Efficiency	XP-L2 62.0° / 101.0° 93 %		30*	20 ⁻
CREE CLED LED FWHM / FWTM Efficiency Peak intensity	XP-L2 62.0° / 101.0° 93 % 0.8 cd/lm		30*	20 20 20 20 20 20 20 20 20 20 20 20 20 2
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 62.0° / 101.0° 93 % 0.8 cd/lm 1		30*	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 62.0° / 101.0° 93 % 0.8 cd/lm 1 White		30*	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 62.0° / 101.0° 93 % 0.8 cd/lm 1 White		30*	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 62.0° / 101.0° 93 % 0.8 cd/lm 1 White		30*	
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 62.0° / 101.0° 93 % 0.8 cd/lm 1 White		30*	57 57 57 57 57 57 57 57 57 57 57 57 57 5



UMIL	.EDS	80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES 61.0° / 96.0° 94 % 0.8 cd/lm 1 White	
	EDC	157 of 557
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 63.0° / 97.0° 93 % 0.8 cd/lm 1 White	
	EDS	50 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 61.0° / 93.0° 94 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SST-10-B130 69.0° / 94.0° 95 % 0.8 cd/lm 1 Deep Red	



MST Your solu	tions	50° 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 61.0° / 94.0° 95 % 0.8 cd/lm 1 White ents:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 64.0° / 95.0° 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 69.0° / 96.0° 95 % 0.8 cd/Im 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 66.0° / 96.0° 94 % 0.8 cd/lm 1 White	



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 68.0° / 100.0° 93 % 0.8 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 62.0° / 97.0° 93 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NWSx229A 63.0° / 97.0° 85 % 0.8 cd/lm 1 White	
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG 64.0° / 96.0° 94 % 0.8 cd/lm 1 White	



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OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PrevaLED Brick HP 2x8 64.0° / 93.0° 92 % 0.8 cd/lm 1 White	
OSRAM		30* 30*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S8 61.0° / 97.0° 93 % 0.8 cd/lm 1 White nts:	
OSRAM		56* 50*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ P 3737 (2W version) 58.0° / 88.0° 91 % 0.9 cd/lm 1 White nts:	
Protective	plate, glass	30° 100 100 100 100 100 100 100 100 100 1
OSRAM		10 ⁻¹⁰ 10 ⁻¹⁰ 10 ⁻¹⁰
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSCONIQ P 3737 (3W version) 56.0° / 93.0° 93 % 0.9 cd/lm 1 White nts:	
		30.



000414		
OSRAM Opto Semiconductors		50 ⁺
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	64.0° / 93.0°	
Efficiency	92 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	e.
Required compone	ents:	
		30, 30
	00	33 ⁵¹ q ¹ 13 ⁵
PHILIP		50° 50
LED	Fortimo FastFlex LED 2x8 DA G4	8
FWHM / FWTM	64.0° / 96.0°	
Efficiency	93 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		241
	20	50 ⁺
PHILIP		
LED	Fortimo FastFlex LED 2x8 DA G4+	51 ⁴
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0°	
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE EMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE EMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ 64.0° / 101.0° 95 % 0.8 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DA G5 64.0° / 97.0° 94 % 0.8 cd/lm 1 White	



SAMSU		90* 90*
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	48.0° / 85.0°	
Efficiency	96 %	50°
Peak intensity	1.1 cd/lm	$ \mathbf{K} = 1$
LEDs/each optic	1	
Light colour	White	ar a
Required componer	its:	
		36* 1200 36*
<u> SAMSU</u>		
		90* 90'
	HiLOM RH12 Z (LH351C)	75* 75*
FWHM / FWTM	62.0° / 97.0°	
Efficiency	95 %	60 60
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	15.	
		800
		36° 35° 34.
SAMSU		90*
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	61.0° / 96.0°	75* 75
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60* 60
LEDs/each optic	1	
Light colour	White	634 637
Required componer		
		342
сллсі		
SAMSU		90° 90'
LED	HiLOM RM12 Z (LH502C)	75
LED FWHM / FWTM	HiLOM RM12 Z (LH502C) 57.0° / 98.0°	72 200
LED FWHM / FWTM Efficiency	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 %	20 20 61
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 % 0.9 cd/lm	25 20 65 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 % 0.9 cd/lm 1	60 ¹ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 % 0.9 cd/lm 1 White	21 22 60 ¹ 60 61 61 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 % 0.9 cd/lm 1 White	60 ¹ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 % 0.9 cd/lm 1 White	60 ¹ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 57.0° / 98.0° 94 % 0.9 cd/lm 1 White	60 ¹ 60



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) 57.0° / 97.0° 95 % 0.9 cd/lm 1 White	
Required compone		30° 0° 55° 30°
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM8 Z (LH502C) 57.0° / 98.0° 95 % 0.9 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B 62.0° / 92.0° 86 % 0.8 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351C 62.0° / 94.0° 93 % 0.8 cd/lm 1 White	



SAMSU	ING	894
LED	LH351D	
FWHM / FWTM	62.0° / 99.0°	
Efficiency	91 %	80°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	nts:	
SAMSU	ING	22% OF 22%
LED FWHM / FWTM	LH508A 60.0° / 97.0°	72
Efficiency	93 %	
Peak intensity	93 % 0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr / /
Required componer		
rtoquirou componer		
		80
		30" 15" 0° 15"
Elektronik GmbH		204
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
LED	LED-Pa-L15c2W11c2-xxx-C050-01 64.0° / 98.0°	77
LED FWHM / FWTM		20
LED FWHM / FWTM Efficiency	64.0° / 98.0°	27 89 ⁴
LED FWHM / FWTM Efficiency	64.0° / 98.0° 95 %	27 69* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	64.0° / 98.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	64.0° / 98.0° 95 % 0.8 cd/lm 1 White	27 20 65 65 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	64.0° / 98.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	64.0° / 98.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	64.0° / 98.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	64.0° / 98.0° 95 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seous semiconductor LED FWHM / FWTM Efficiency	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0° 92 %	2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0° 92 % 0.8 cd/lm	2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer secul semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0° 92 % 0.8 cd/lm 1	2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0° 92 % 0.8 cd/lm 1 White	2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer scoul semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	64.0° / 98.0° 95 % 0.8 cd/lm 1 White nts: 2x2 Y22 module - SMJQ-D48W16AA-XX 55.0° / 98.0° 92 % 0.8 cd/lm 1 White	2



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M3 62.0° / 96.0° 94 % 0.8 cd/lm 1 White nts:	
SEOUL		
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M4 64.0° / 92.0° 95 % 0.8 cd/lm 1 White tts:	
SEOUL		
stour stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y19 55.0° / 98.0° 92 % 0.8 cd/lm 4 White hts:	
stour stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y19 55.0° / 98.0° 92 % 0.8 cd/lm 4 White hts:	



PHOTOMETRIC DATA (MEASURED):

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SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone		50 50 50 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x4 2000lm HP EXC2 OTD 61.0° / 96.0° 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Protective	RLE 2x4 2000lm HP EXC2 OTD 61.0° / 95.0° 89 % 0.8 cd/lm 1 White	34
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x8 4000lm HP EXC2 OTD 61.0° / 96.0° 94 % 0.9 cd/lm 1 White	



TRIDON	AIC	35*
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	White	gr
Required compone	ents:	
TRIDO		325 6 25
		50* 50
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	12
FWHM / FWTM	61.0° / 96.0°	
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		500
		N ⁶ 15 ⁰ 0 ⁴ 15 ⁰
TRIDO		94* 99
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
LED FWHM / FWTM	61.0° / 96.0°	72 72
Efficiency	94 %	
Efficiency Peak intensity	94 % 0.8 cd/lm	
Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0° 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0° 94 % 0.8 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0° 94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0° 94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0° 94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD 61.0° / 96.0° 94 % 0.8 cd/lm 1 White	



CREE LED	XP-G2 HE 73.0° / 97.0° 95 % 0.7 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
		90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XT-E 69.0° / 90.0° 94 % 0.8 cd/lm 1 White	77° 200 201 201 201 201 201 201 201 201 201
)C	
CUMILEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3535L 66.0° / 89.0° 94 % 0.9 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	S LUXEON MZ 66.0° / 90.0° 94 % 0.9 cd/lm 1 White	30* 9* 32* 200 60 60 60 60 60 60 90* 60



ΜΝΙCΗΙΛ		90° 90°
LED	NV4WB35AM	
FWHM / FWTM	69.0° / 90.0°	75 75
Efficiency	95 %	
Peak intensity	0.8 cd/lm	60 ⁴ '60'
LEDs/each optic	1	400
Light colour	White	424 43
Required components:		
		30° 30'
~		
MNICHIA		90* 90*
LED	NVSxx19B/NVSxx19C	75*
FWHM / FWTM	70.0° / 90.0°	200
Efficiency	95 %	60° 60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	a., a.,
Required components:		
		30° 30°
OSDAM		30 ⁴ 33 ⁹ 0 ⁴ 35 ⁹
OSRAM Opto Semiconductors		90° 100 100 100 100 100 100 100 100 100 1
OSRAM Opto Semiconductors LED	OSCONIQ C 2424	90° 155° 0° 155° 300
Opto Semiconductors	OSCONIQ C 2424 66.0 + 68.0° / 82.0°	20 ¹ 20 ² 0 ² 10 ² 00
opto Semiconductors LED FWHM / FWTM Efficiency		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	66.0 + 68.0° / 82.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm	55 ¹ 0 15 ¹ 0 15 ¹ 15
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1	200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1	200 200 200 200 00 200 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1	27. 200 60 5 5 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: POSRAM Opto Semiconductors	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White	27. 200 60 5 5 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm 1	
orlo Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm	
orlo Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm 1	
orlo Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0 + 68.0° / 82.0° 96 % 0.9 cd/lm 1 White OSCONIQ P 3030 66.0° / 88.0° 96 % 0.8 cd/lm 1	



OSRAM		50° 50°
Opto Semiconductors	OSCONIQ P 3737 Flat	
FWHM / FWTM	64.0° / 88.0°	75*
Efficiency	95 %	
Peak intensity	0.9 cd/lm	60 [*]
LEDs/each optic	1	
Light colour	White	gr
Required components:		
		- 800
		30" 36"
		15° 1000 15°
OSRAM Opto Semiconductors		90*
LED	OSLON Square Flat	70
FWHM / FWTM	68.0° / 86.0°	75*
Efficiency	95 %	60°
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	az ⁴ az*
Required components:		
		30°
OCDAM		15% 00 35%
OSRAM Opto Semiconductors		207 of 127
OSRAM Opto Semiconductors LED	OSLON SSL 80	
	OSLON SSL 80 55.6° / 81.2°	27 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
LED		64 27 29 39 4 20 20 4 20 20 50 4 20 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity	55.6° / 81.2°	137 0° 12° 94 99° 39° 131 60° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.6° / 81.2° 94 % 1.1 cd/lm 1	23 ² 0 ⁴ 12 ⁴ 90 ⁴ 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.6° / 81.2° 94 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.6° / 81.2° 94 % 1.1 cd/lm 1	6, 6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.6° / 81.2° 94 % 1.1 cd/lm 1	er er 27 26 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.6° / 81.2° 94 % 1.1 cd/lm 1	21 0 32 61 60 60 61 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.6° / 81.2° 94 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.6° / 81.2° 94 % 1.1 cd/lm 1	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx)	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0°	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 %	<u>31</u> <u>34</u> <u>36</u> <u>127</u> <u>6</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 % 0.8 cd/lm	<u>31</u> <u>34</u> <u>36</u> <u>127</u> <u>6</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 % 0.8 cd/lm	<u>31</u> <u>34</u> <u>36</u> <u>127</u> <u>6</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u> <u>127</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.6° / 81.2° 94 % 1.1 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 68.0° / 88.0° 96 % 0.8 cd/lm 1	



DHILLIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DAX G4 71.0° / 94.0° 94 % 0.8 cd/lm 1 White	57 59 59 59 59 59 59 59 59 59 59
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	HiLOM RM16 Z (LH502C) 56.0° / 98.0° 88 % 0.8 cd/lm 1 White	5° 00 6° 00 5°
Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:		000 30- 30- 30- 30- 30- 30- 30- 30- 30-
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SEOUL DC 5050 6V 64.0° / 93.0° 94 % 0.8 cd/lm 1 White	20, 000 Pa, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20



SEOUL SEOUL SEMICONDUCTOR		90° 91°
LED	Z8Y22T	
FWHM / FWTM	55.0° / 83.0°	
Efficiency	94 %	60 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	g. at
Required component	S:	204 125 00 127 Xie



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:

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