

# HB-IP-2X6-M

~25° medium beam

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	173.0 x 71.4 mm
Height	11.4 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

# PRODUCT DATASHEET CS14891\_HB-IP-2X6-M



# MATERIAL SPECIFICATIONS:

Component HB-IP-2X6-M 2X6-SEAL25 **Type** Multi-lens Seal

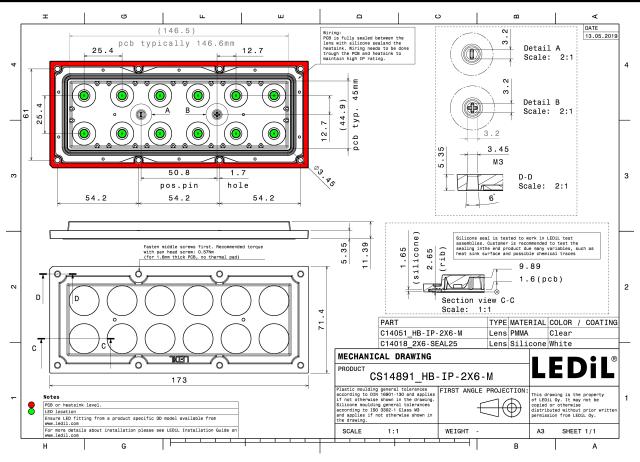
Material	Colour	Finish
PMMA	clear	
Silicone	white	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14891_HB-IP-2X6-M	Multi-lens	120	40	40	8.1
» Box size: 476 x 273 x 247 mm					



# PRODUCT DATASHEET CS14891\_HB-IP-2X6-M



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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX 2x6 LED XG xxx G7+ 32.0° / 59.0° 94 % 2.4 cd/lm 1 White nts:	20- 20- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX 2x6 LED XT xxx G5 28.0° / 55.0° 94 % 2.9 cd/lm 1 White nts:	99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 99 <sup>4</sup> 90 <sup>6</sup> 90 <sup>6</sup>
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L 27.0° / 50.0° 94 % 3.1 cd/lm 1 White	200 200 200 200 200 200 200 200
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 30.0° / 57.0° 94 % 2.7 cd/lm 1 White	



		90°
LED	- XP-G3	
FWHM / FWTM	32.0° / 58.0°	
Efficiency	94 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	a. a.
Required compone	nts:	
		30
	1	15° 0° 15° 90° - 98°
LED	XP-L HD	
FWHM / FWTM	39.0° / 66.0°	71
Efficiency	94 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ar er
Required compone		
		200
		30'
		125 de 125
		90 <sup>°</sup> 90 <sup>°</sup>
LED	XP-L2	
LED FWHM / FWTM	XP-L2 39.0° / 67.0°	
LED FWHM / FWTM Efficiency	XP-L2 39.0° / 67.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM Efficiency	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White hts: XT-E 25.0° / 52.0° 92 % 3.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0° 92 % 3.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0° 92 % 3.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0° 92 % 3.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0° 92 % 3.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 39.0° / 67.0° 94 % 1.7 cd/lm 1 White tts: XT-E 25.0° / 52.0° 92 % 3.1 cd/lm 1 White	



			90*
LED	XT-E HE		
FWHM / FWTM	26.0° / 53.0°		
Efficiency	94 %		
Peak intensity	3.2 cd/lm		
LEDs/each optic	1		
Light colour	White		ast a
Required componer			
			200
			30°
			135 00 255
UMIL	EDS		90°
LED	LUXEON T		
FWHM / FWTM	29.0° / 55.0°		$ \land \land$
Efficiency	94 %		60 <sup>2</sup> / 000
Peak intensity	2.7 cd/lm		
LEDs/each optic	1		
Light colour	White		e5 <sup>x</sup> 2500 2
Required componer	nts:		
			200
			30
	EDS		90°
LED			
	LUXEON V		
	LUXEON V 35.0° / 62.0°		78'
FWHM / FWTM	35.0° / 62.0°		
FWHM / FWTM Efficiency	35.0° / 62.0° 93 %		23°
FWHM / FWTM Efficiency Peak intensity	35.0° / 62.0°		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	35.0° / 62.0° 93 % 2.1 cd/lm		
FWHM / FWTM Efficiency Peak intensity	35.0° / 62.0° 93 % 2.1 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 62.0° 93 % 2.1 cd/lm 1 White		5°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 62.0° 93 % 2.1 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 62.0° 93 % 2.1 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts:		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0°		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 %		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 % 2.9 cd/lm		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Component Efficiency Peak intensity LEDs/each optic	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 % 2.9 cd/lm 1		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Colour ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 % 2.9 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Component Efficiency Peak intensity LEDs/each optic	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 % 2.9 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Colour ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 % 2.9 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Required component Required component Required component Composition Efficiency Peak intensity LEDs/each optic Light colour	35.0° / 62.0° 93 % 2.1 cd/lm 1 White nts: EDS LUXEON V2 28.0° / 54.0° 94 % 2.9 cd/lm 1 White		



	EDS	29 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) 28.0° / 54.0° 94 % 3 cd/lm 1 White ents:	
	INUS	947 92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SST-10-B130 27.0° / 53.0° 95 % 3 cd/lm 1 Deep Red	
MST Your solu	tions	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1 28.0° / 55.0° 95 % 2.8 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 38.0° / 63.0° 94 % 2 cd/lm 1 White	



		29* 29*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 33.0° / 59.0° 94 % 2.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 34.0° / 61.0° 94 % 2.3 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 34.0° / 60.0° 94 % 2.1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A 40.0° / 70.0° 95 % 1.7 cd/lm 1 White	



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxE21A 24.0° / 53.0° 92 % 4.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 31.0° / 58.0° 93 % 2.5 cd/lm 1 White	
Opis Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S8 41.0° / 70.0° 94 % 1.6 cd/lm 1 White ents:	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON Square PC 29.0° / 57.0° 93 % 2.7 cd/lm 1 White ents:	



PHILIF		1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x6 DP G5 32.0° / 62.0° 96 % 2.3 cd/lm 1 White	Ro.         Ro. <thro.< th=""> <thro.< th=""> <thro.< th=""></thro.<></thro.<></thro.<>
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x6 DP HE 38.0° / 68.0° 97 % 1.8 cd/lm 1 White	5° 5° 5° 6° 6° 6° 123 6° 123 6° 123 6° 123 6°
PHILIC ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x6 DPX G4 32.0° / 58.0° 94 % 2.4 cd/lm 1 White	30°
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 33.0° / 61.0° 94 % 2.3 cd/lm 1 White	30'         30'         30'           50'         000         60'           60'         000         60'           90'         000         60'           90'         000         60'



SVWSI		50'
LED FWHM / FWTM	HiLOM RM12 ZP (LH502C) 38.0° / 69.0°	39
Efficiency	96 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	¢.
Required compone	nts:	
SCIO	LUX	50° A 3
LED	XLE-S22C4XTEHE (XT-E HE)	
FWHM / FWTM	26.0° / 53.0°	77
Efficiency	94 %	
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	nts:	300
		30' 157 0' 55' 3
SCIO	LUX	80'
LED	XLE-S26XHP35 (XHP35 HD)	
FWHM / FWTM	42.0° / 71.0°	
Efficiency	94 %	60
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	<i>#</i> '
Required compone	nts:	30° 15° 0° 55° 3
SEOUL		30°
SEOUL SEMICONDUCTOR	2x6 5050 module - SMJD-3625012F-XX	
FWHM / FWTM	38.0° / 65.0°	
Efficiency	94 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr. 120
Required component	nts:	



SEOUL		90 <sup>5</sup>
SEOUL SEMICONDUCTOR	SMJQ-D36W12Mx	
FWHM / FWTM	26.0° / 52.0°	72
Efficiency	91 %	
Peak intensity	2.8 cd/lm	61- K.
LEDs/each optic	1	
Light colour	' White	g* <u>500</u> g*
Required componer		
		209
		$\times$ / $\vee$ / $\lambda$
		20 <sup>5</sup> 0 <sup>5</sup> 12 <sup>5</sup> 30 <sup>6</sup>
SEOUL SEOUL SEMICONDUCTOR		sy
LED	SMJQ-D36W12Px	
FWHM / FWTM	29.0° / 54.0°	
Efficiency	94 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ar <u>169</u> ar
Required componer		
		300
		15% of 15"
SEOUL		15° 0° 15°
SEOUL SEMICONDUCTOR	75M1/75M2	15° 0 <sup>4</sup> 15'
SEOUL SEMICONDUCTOR	Z5M1/Z5M2 30.0° / 57.0°	
seoul semiconductor LED FWHM / FWTM	30.0° / 57.0°	25° 0° 15°
seoul semiconductor LED FWHM / FWTM Efficiency	30.0° / 57.0° 93 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	30.0° / 57.0°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 57.0° 93 % 2.6 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 57.0° 93 % 2.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 57.0° 93 % 2.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 57.0° 93 % 2.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 57.0° 93 % 2.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	30.0° / 57.0° 93 % 2.6 cd/lm 1 White	200
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	30.0° / 57.0° 93 % 2.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SECOUL SEMICONDUCTOR LED	30.0° / 57.0° 93 % 2.6 cd/lm 1 White hts: Z5M3	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM	30.0° / 57.0° 93 % 2.6 cd/lm 1 White hts: Z5M3 30.0° / 58.0°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	30.0° / 57.0° 93 % 2.6 cd/lm 1 White hts: Z5M3 30.0° / 58.0° 94 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts: Z5M3 30.0° / 58.0° 94 % 2.5 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts: Z5M3 30.0° / 58.0° 94 % 2.5 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts: Z5M3 30.0° / 58.0° 94 % 2.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts: Z5M3 30.0° / 58.0° 94 % 2.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts: Z5M3 30.0° / 58.0° 94 % 2.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	30.0° / 57.0° 93 % 2.6 cd/lm 1 White tts: Z5M3 30.0° / 58.0° 94 % 2.5 cd/lm 1 White	



SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22 26.0° / 52.0° 91 % 2.8 cd/lm 1 White ents:	
stoul SHALCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22P 30.0° / 55.0° 93 % 2.5 cd/lm 1 White ents:	
<b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x6 3000lm HP EXC2 OTD 26.0° / 53.0° 94 % 3.1 cd/lm 1 White	



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Bridgelux SMD 5050 37.0° / 69.0° 94 % 1.9 cd/lm 1 White	59° 59° 59° 59° 50° 50° 50° 50° 50° 50° 50° 50
CREE LED	XP-E 28.0° / 56.0° 94 % 2.8 cd/lm 1 White	200 200 200 200 200 200 200 200
CREEE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 31.0° / 53.0° 95 % 2.8 cd/lm 1 White	200 200 200 00 00 00 00 00 00 00 00 00 0
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 37.0° / 68.0° 93 % 2 cd/lm 1 White	



## LUMILEDS

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

LUXEON 5050 Square LES 34.0° / 62.0° 94 % 2 cd/lm 1 White

# **ØNICHIA**

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

# 34.0° / 62.0° 95 % 2.2 cd/lm 1 White

30.0° / 58.0°

95 %

White

1

2.6 cd/lm

PrevaLED Brick HP IP 2x6

NV4WB35AM

# OSRAM

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

# OSRAM Opto Semiconductors

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

Last update: 15/12/2021

OSCONIQ P 3030 20.0° / 42.0° 96 % 4.8 cd/lm 1 White

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OSRAM Opto Semiconductors		50° 50°
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	26.0° / 48.0°	75 75 75
Efficiency	94 %	
Peak intensity	3.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	97°
Required components:		2100
		$\times / \times$
		320
		30°
		30° 30° 30° 30° 30° 30° 30° 30° 30° 30°
OSRAM Opto Semiconductors		50° 50°
LED	OSCONIQ P 3737 Flat	
FWHM / FWTM	27.0° / 54.0°	75*
Efficiency	96 %	50°
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	5° 5°
Required components:		$\times$
		$\times$ / $\times$ / $\times$
		30* 2220 30*
OCDAM		
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	75
FWHM / FWTM	27.0° / 53.0°	
Efficiency	94 %	60° 60°
Peak intensity	3 cd/lm	
LEDs/each optic	1	1670
Light colour	White	e.
Required components:		
		ocis
		$\times$ / $\times$ / $\times$
		30° 35° 36° 30°
	1	
PHILIPS		90° 90°
LED	Fortimo FastFlex LED 2x6 DP G4	
FWHM / FWTM	26.0° / 45.0°	
Efficiency	94 %	60° 60°
Peak intensity	4 cd/lm	
LEDs/each optic	1	
Light colour	White	43° - 2400 - 63°
Required components:		
		3230
		30" 00 33" 30"



SAMSUN	IG	90° 90°
LED	LH181B	
FWHM / FWTM	27.0° / 50.0°	75.
Efficiency	94 %	
Peak intensity	3.4 cd/lm	60°
LEDs/each optic	1	1690
Light colour	White	45°
Required components:	White	2430
		220
		29 0° 15° 0°
SAMSUN	IG	90° 90°
LED	LH231B	
FWHM / FWTM	28.0° / 52.0°	73.
Efficiency	95 %	500 500
Peak intensity	3 cd/lm	$f \times / \square \setminus X$
LEDs/each optic	1	1600
Light colour	White	
Required components:		
		2430
		30°
		15" 3300 15"
91/1N/901	IG	90* 90*
	LH351C	
LED	LH351C	
LED FWHM / FWTM	LH351C 39.5° / 72.3°	
LED FWHM / FWTM Efficiency	LH351C 39.5° / 72.3° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1	75 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1	75 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 %	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm 1	73 64 64 67 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm	73 64 64 67 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm 1	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm 1	75 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm 1	75 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351C 39.5° / 72.3° 94 % 1.7 cd/lm 1 White LH351D 46.0° / 79.9° 94 % 1.3 cd/lm 1	₫ <sup>2</sup> <sup>1</sup> <sup>1</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>2</sup>



		90* 90*
	LH508B	
FWHM / FWTM	36.0° / 70.0°	25 22*
Efficiency	94 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	₩ <sup>2</sup> 1290 45°
Required components:		
		1630
		30° 2000 30°
-		135 00 155
SEOUL		50* 50*
LED	SEOUL DC 5050 6V	
FWHM / FWTM	39.0° / 72.0°	75*
Efficiency	94 %	
Peak intensity	1.8 cd/lm	200
LEDs/each optic	1	
Light colour	White	93 <sup>-</sup>
Required components:		
		1600
		30° 30°
SEOUL		199
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22T	75*
FWHM / FWTM	28.0° / 51.0°	73*
Efficiency	94 %	60° 60'
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	43 <sup>2</sup>
Required components:		2450
		30" 30 0" 30



#### **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.

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