

HB-IP-2X6-W

~60° wide 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 CS14130_HB-IP-2X6-W



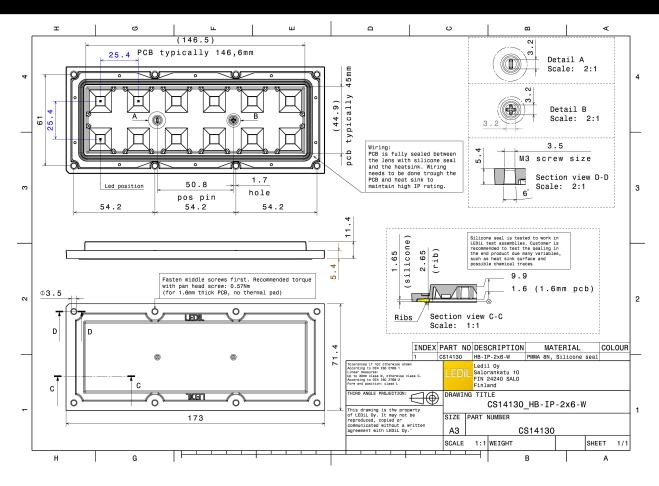
MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
HB-IP-2X6-W	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14130_HB-IP-2X6-W	Multi-lens	120	40	40	8.4
» Box size: 476 x 273 x 247 mm					

PRODUCT DATASHEET CS14130_HB-IP-2X6-W



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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	QUICK FLUX 2x6 LED XG xxx G7+ 60.0° / 93.0° 94 % 0.8 cd/lm 1 White nts:	25° 25° 25° 25° 26° 26° 26° 26° 26° 26° 26° 26° 26° 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX 2x6 LED XT xxx G5 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts:	200 200 00 00 00 00 00 00 00 00
CREE LET LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L2 61.0° / 93.0° 94 % 0.8 cd/lm 1 White	50° 50° 50° 50° 60° 60° 60° 60°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 60.0° / 91.0° 94 % 0.8 cd/lm 1 White	200 200 200 00 00 00 00 00 00 0



CREE 2 LEO EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 58.0° / 87.0° 93 % 0.9 cd/lm 1 White	95° 95° 75° 200 95° 400 95° 600
	XP-G3	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	59.0° / 94.0° 94 % 0.8 cd/lm 1 White ints:	
CREE LEO FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HD 67.0° / 99.0° 94 % 0.8 cd/lm 1 White	
CREE (LEI) FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 62.0° / 101.0° 94 % 0.8 cd/lm 1 White	



		30'
LED	XT-E	
FWHM / FWTM	58.0° / 93.0°	75'
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required compone		
LED FWHM / FWTM	XT-E HE 56.0° / 89.0°	75-
Efficiency	94 %	
Peak intensity	94 % 0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er er
Required compone		
Required compone		
		000
		30 ⁴ 30 ⁹ 30 ⁹
	EDS	20 ⁴ 20 ⁵ 20 ⁴ 20 ⁴
	EDS LUXEON R	30 ⁴ 30 ⁴ 30 ⁴ 30 ⁴
		34 ⁴ 137 0 ⁴ 137 30 39 ⁴ 90 72 ⁴ 72
LED	LUXEON R	24 <u>137 07 137 7</u> 20 20 21 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM	LUXEON R 58.0° / 89.0°	
LED FWHM / FWTM Efficiency	LUXEON R 58.0° / 89.0° 94 %	20° 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm	72
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White	21 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White	72
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White	2. 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0° 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0° 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0° 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0° 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON R 58.0° / 89.0° 94 % 0.9 cd/lm 1 White nts: EDS LUXEON Rebel ES 57.0° / 88.0° 94 % 0.9 cd/lm 1 White	



	EDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON T 60.0° / 89.0° 94 % 0.9 cd/lm 1 White	90* 99* 725 60* 60* 60* 60* 60* 60* 60* 60* 60* 60*
ED EVENT CONTRACT CONTTACT CONTRACT CONTTACT CON	LUXEON TX 54.0° / 87.0° 94 % 1 cd/lm 1 White	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
UMIL	EDS	30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON V 59.0° / 93.0° 93 % 0.9 cd/lm 1 White nts:	200 200 200 400 000 000 000
ED FWHM / FWTM Efficiency	LUXEON V2 56.0° / 89.0° 94 %	00 00 00 00 00 00 00 00 00 00
Peak intensity LEDs/each optic Light colour Required componen	0.9 cd/lm 1 White hts:	5° - 60° - 6° 00° - 6° 30° - 8°



	.EDS	50 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) 60.0° / 89.0° 94 % 0.9 cd/lm 1 White	
	.EDS	90 ⁴ 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 52.0° / 83.0° 94 % 1 cd/lm 1 White ents:	
ELUM	INUS	90.9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SST-10-B130 56.0° / 87.0° 96 % 1 cd/lm 1 Deep Red	
Your solu LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1 55.0° / 85.0° 98 % 1 cd/lm 1 White	90 ⁴ 75 60 ⁵ 60 60 60 60 60 60 60 60 60 60



ØNICHI/		54 St
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 64.0° / 89.0° 94 % 0.9 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 60.0° / 90.0° 94 % 0.9 cd/lm 1 White	
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 64.0° / 94.0° 94 % 0.8 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 60.0° / 93.0° 94 % 0.8 cd/lm 1 White	



ØNICHI/	•	55*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A 61.0° / 92.0° 95 % 0.8 cd/lm 1 White	
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxE21A 51.0° / 83.0° 94 % 1.1 cd/lm 1 White	
	\	20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 58.0° / 89.0° 94 % 0.9 cd/lm 1 White ents:	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S8 54.0° / 92.0° 94 % 1 cd/lm 1 White ents:	



PHILI	PS	50*
LED	Fortimo FastFlex LED 2x6 DP G4	72
FWHM / FWTM	58.0° / 87.0°	
Efficiency	93 %	exercise and the second s
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		80
		30* 31 35° q° 35°
PHILIP	S	20 ³
LED	Fortimo FastFlex LED 2x6 DP G5	
FWHM / FWTM	58.0° / 85.0°	
Efficiency	97 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr de la companya de
Required compone	nts:	
		30*
PHILI	20	
LED	Fortimo FastFlex LED 2x6 DP HE	
FWHM / FWTM	55.0° / 93.0°	
Efficiency	98 %	
Peak intensity	1.1 cd/lm	5 ⁴
LEDs/each optic	1	
Light colour	White	gr de la constante de la consta
Required compone	nts:	
		300 30
PHILI		20 ⁷ 10 ⁰ 10 ⁵
		<u>94*</u> 9
LED	Fortimo FastFlex LED 2x6 DPX G4	75
	59.0° / 94.0°	
	04.9/	
FWHM / FWTM Efficiency	94 %	
Efficiency Peak intensity	0.8 cd/lm	50 · · · · · · · · · · · · · · · · · · ·
Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	65
Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1 White	63. 440 67. 600
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	50 - 60 51 - 60 - 60
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	



SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 61.0° / 89.0° 94 % 0.9 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) 55.0° / 93.0° 97 % 1.1 cd/lm 1 White	
SCIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XTEHE (XT-E HE) 56.0° / 89.0° 94 % 0.9 cd/lm 1 White	
SCIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S26XHP35 (XHP35 HD) 65.0° / 102.0° 94 % 0.7 cd/lm 1 White	



SEOUL SEMICONDUCTOR		90 ⁴
LED	2x6 5050 module - SMJD-3625012F-XX	
FWHM / FWTM	57.0° / 95.0°	3
Efficiency	94 %	
Peak intensity	1 cd/lm	60 ⁵
LEDs/each optic	1	
	' White	
Light colour Required compone		
Required compone	ans.	
		30°
SEOUL		
SEOUL SEMICONDUCTOR		
LED	SMJQ-D36W12Mx	
FWHM / FWTM	53.0° / 91.0°	
Efficiency	93 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30*
		135 [°] 0 ⁰ 135 [°]
		501
LED	SMJQ-D36W12Px	
FWHM / FWTM	58.0° / 95.0°	
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er la
Required compone		
required compone		
		30° 01 133
SEOUL		90°
	75144 /75140	
	Z5M1/Z5M2	7.
FWHM / FWTM	59.0° / 87.0°	200
Efficiency	94 %	60°
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	5° (
Required compone	ents:	
		30* 800
		137 00 157



scout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Z5M3 59.0° / 93.0° 94 % 0.9 cd/lm 1 White nts:	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
SEOUL		
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Z8Y22 53.0° / 91.0° 93 % 1 cd/lm 1 White nts:	30. 12. 0. 12. 30. 90. 0. 40. 0. 0. 12. 0. 0.
SEOUL		90° 90°
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Z8Y22P 57.0° / 95.0° 94 % 0.9 cd/lm 1 White nts:	75 200 200 200 200 200 200 200 20
TOSHIBA Leading Innovation >> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	TL1L4 56.0° / 85.0° 94 % 1 cd/lm 1 White nts:	



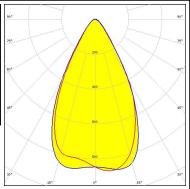
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FWHM / FWTM 57 Efficiency 94 Peak intensity 0.9 LEDs/each optic 1 Light colour W Required components:

RLE 2x6 3000lm HP EXC2 OTD 57.0° / 87.0° 94 % 0.9 cd/lm 1 White







		90 ⁴
LED	J Series 5050 Round LES	
FWHM / FWTM	55.0° / 86.0°	
Efficiency	94 %	60* 60*
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		200
		30° 30° 30° 30° 30°
		90° 90°
LED	J Series 5050 Square LES	
FWHM / FWTM	54.0° / 88.0°	75°
Efficiency	97 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	$ \times / / \rangle \rangle \rangle$
Light colour	White	45" 43"
Required components:		
		157 00 159
		90* 90*
	MHB-A/B	
	MHB-A/B 60.0° / 96.0°	90 ⁴ 90 ⁴
LED		
LED FWHM / FWTM	60.0° / 96.0°	
LED FWHM / FWTM Efficiency	60.0° / 96.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity	60.0° / 96.0° 91 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	60.0° / 96.0° 91 % 0.9 cd/lm 1	79°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1	79 - 79 - 79 - 79 - 79 - 79 - 79 - 79 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1	79 - 79 - 79 - 79 - 79 - 79 - 79 - 79 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1	79 - 79 - 79 - 79 - 79 - 79 - 79 - 79 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1	79°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White	79°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0°	79 - 79 - 79 - 79 - 79 - 79 - 79 - 79 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 %	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm 1	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED EU FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm 1	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm 1	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm 1	22 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE (LED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	60.0° / 96.0° 91 % 0.9 cd/lm 1 White XB-D White 52.0° / 80.0° 90 % 1 cd/lm 1	33. 91. 36. 91. 36. 92. 60. 90. 60. 90. 60. 90. 23. 90. 23. 90.



CREES LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35 HD 60.0° / 92.0° 94 % 0.9 cd/lm 1 White	5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 6 ⁰ 6 ⁰ 6 ⁰ 6 ⁰ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹
CREE CLED	XHP35 HI 57.0° / 82.0°	27 27 27 27 27 27 27 27 27 27
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 1 cd/lm 1 White	200 4.03 4
CREECILED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L 57.0° / 85.0° 93 % 1 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	XP-E2 56.0° / 76.0° 94 % 1 White	



	DS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 54.0° / 88.0° 95 % 1.1 cd/lm 1 White	5. 6. 6.
)S	90 ⁴ 100 3
LED		9
ED FWHM / FWTM	LUXEON 5050 Square LES 52.0° / 89.0°	75
Efficiency	97 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	$ \times / / \times \times$
Light colour	White	g.
Required components:		
		\times \wedge \wedge \times
		200 - 1200
		15° 0° 15°
	DS	90* 91
LED	LUXEON Rebel	
FWHM / FWTM	50.0° / 70.0°	
Efficiency	93 %	600 400
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		36° 125 150 125 2
Μ ΝΙCΗΙΛ		20 ⁴
	NF2x757A	84+
	NF2x757A 50.0° / 76.0°	32. 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
LED FWHM / FWTM Efficiency		84+
LED FWHM / FWTM Efficiency Peak intensity	50.0° / 76.0°	90+
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 76.0° 93 %	84+
LED FWHM / FWTM Efficiency Peak intensity	50.0° / 76.0° 93 % 1.1 cd/lm	6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFMW48xA 55.0° / 91.0° 97 % 1.1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 54.0° / 84.0° 97 % 1.2 cd/lm 1 White	20- 20- 20- 20- 20- 20- 20- 20-
WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A 52.0° / 90.0° 95 % 1.2 cd/lm 4 White	20, 0, 12, 0, 12, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
OSRAM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	PrevaLED Brick HP IP 2x6 56.0° / 80.0° 96 % 1 cd/lm 1 White	200 100 200 100 200 200 100 200 100



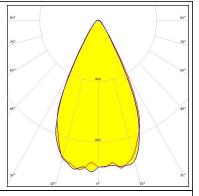
OSRAM		90* 90*
Opto Semiconductors	OSCONIQ P 3030	
FWHM / FWTM	50.0° / 80.0°	75*
Efficiency	94 %	
Peak intensity	94 /o 1.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	' White	g ¹
Required components:	Wine	
required components.		
		36* 1220 36* 15° 0° 15°
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	57.0° / 79.0°	75.
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	43°
Required components:		
		30"
		153 00 154
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	56.0° / 84.0°	23.
Efficiency	94 %	
Peak intensity	1.1 cd/im	60° 60°
LEDs/each optic	1	
Light colour	White	a. a.
Required components:		
		36* 35*
OSRAM		139 0 ⁰ 150
Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 Flat	75*
FWHM / FWTM	52.0° / 80.0°	
Efficiency	97 %	60 ⁸ 60 ⁰
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	· · · · · · · · · · · · · · · · · · ·
Required components:		
		1200
		30° 1230 1290 as 1400 30°



O	S	R	Α	М	
Opto	Sen	nicor	nduc	tors	

LED	OS
FWHM / FWTM	56.
Efficiency	94
LEDs/each optic	1
Light colour	Wh
Required components:	

SLON Square CSSRM2/CSSRM3 6.0° / 78.0° 4 % /hite



OSRAM Opto Semiconduct

OSL
56.0°
93 %
1
White

OSLON Square EC
56.0° / 70.0°
93 %
1
White

OSRAM Opto Semiconductors		90 ⁴
LED	OSLON Square PC	75* 75*
FWHM / FWTM	56.0° / 70.0°	
Efficiency	93 %	60° 60°
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	43° 43°
Required components:		20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
OSRAM Opto Semiconductors		50°
LED	OSLON SSL 80	75*
FWHM / FWTM	52.0° / 69.0°	
Efficiency	94 %	60°
Peak intensity	1.2 cd/lm	$\langle / / \rangle$
LEDs/each optic	1	
Light colour	White	434
Required components:		N ¹ N ²



0.0.0.0.0.0	10	
SAMSUN	IG	90° 90°
LED	LH181B	21"
FWHM / FWTM	50.0° / 78.0°	
Efficiency	96 %	60° 60°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	5°* 65*
Required components:		
		211
		30° 30° 30°
SAMSUN	IG	90* 90*
LED	LH181B	
FWHM / FWTM	54.0° / 80.0°	75'
Efficiency	94 %	
Peak intensity	1.2 cd/lm	60°
LEDs/each optic	1	$ \times // \rangle \wedge \times $
Light colour	White	ar er
Required components:		
		30° 30°
		15° 0° 15°
SAMSUN	IG	90° 90°
	LH502C	59°
		23. 26. 26.
LED	LH502C	
LED FWHM / FWTM	LH502C 54.0° / 90.0°	99 ⁴ 99 ⁴ 75 ⁵ 72 ⁵ 16 ⁴ 400 00
LED FWHM / FWTM Efficiency	LH502C 54.0° / 90.0° 97 %	99 ⁴ 99 ⁴ 75 ⁵ 75 ⁶ 86 ⁴ 86 ⁴ 87 ⁴
LED FWHM / FWTM Efficiency Peak intensity	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm	99° 99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1	29 29 29 29 29 29 29 29 29 29 29 29 29 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1	29 29 29 29 29 29 29 29 29 29 29 29 29 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1	29 29 29 29 29 29 29 29 29 29 29 29 29 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White	75 77 77 164 60 00 179 00 170 00 170 00 170 00 170 00 170 00 170 00 170 00 170 00 170 0000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White	75 77 77 164 60 00 179 00 170 00 170 00 170 00 170 00 170 00 170 00 170 00 170 00 170 0000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White	75 77 77 164 60 00 179 00 170 00 170 00 170 00 170 00 170 00 170 00 170 00 170 00 170 0000000000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White I G LH508B 52.0° / 89.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White I LH508B 52.0° / 89.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White I LH508B 52.0° / 89.0° 94 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White LH508B 52.0° / 89.0° 94 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White I LH508B 52.0° / 89.0° 94 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White LH508B 52.0° / 89.0° 94 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White LH508B 52.0° / 89.0° 94 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH502C 54.0° / 90.0° 97 % 1.2 cd/lm 1 White LH508B 52.0° / 89.0° 94 % 1.2 cd/lm 1	



SEOUL		50 ⁴ 50 ⁴
SEOUL SEMICONDUCTOR	Acrich MJT 4040	
FWHM / FWTM	52.0° / 82.0°	75.
Efficiency	93 %	
Peak intensity	1.2 cd/lm	490 60*
LEDs/each optic	1	
Light colour	White	5° 43°
Required components:	White	
		30°
SEOUL		90* 90*
	7514	
	Z5M	73.
FWHM / FWTM	50.0°	
Efficiency	94 % 1 cd/lm	60 ⁴ 60 ^e
Peak intensity		400
LEDs/each optic	1 White	45* 45*
Light colour Required components:	White	
Required components:		
		30° 15° 34°
SEOUL		
SEOUL SEMICONDUCTOR		90°
seoul semiconductor LED	Z8Y22T	39
seoul semiconductor LED FWHM / FWTM	53.0° / 79.0°	3 ² 3 ²
seoul semiconductor LED FWHM / FWTM Efficiency	53.0° / 79.0° 94 %	04 - 40 - 64 24 - 25 26 - 25
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	53.0° / 79.0° 94 % 1.2 cd/lm	99° 90° 90° 90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	53.0° / 79.0° 94 % 1.2 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm	55° 56° 55° 56° 55° 56° 56° 66° 56°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	53.0° / 79.0° 94 % 1.2 cd/lm 1	5°. 5°. 5°. 5°. 5°. 5°. 5°. 5°. 5°. 5°.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1	6. 6. 6. 75. 75. 75. 75. 75.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1	6. 6. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1	30° 30° 30° 30° 30° 30° 30° 30° 30° 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1	30. 200 200 200 200
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: FOSHIBA Leading Innovation >>>	53.0° / 79.0° 94 % 1.2 cd/lm 1 White	30. 200 200 200 200
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation >>> LED	53.0° / 79.0° 94 % 1.2 cd/lm 1 White	30. 200 200 200 200
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0°	54 54 55 55 56 57 56 57 57 57 57 57 57 57 57 57 57
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 %	22 23 24 25 25 25 25 25 25 25 25 25 25
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation LED FWHM / FWTM Efficiency Peak intensity	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm	22 23 24 25 25 25 25 25 25 25 25 25 25
stoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm 1	94 95 20 20 20 20 20 20 20 20 20 20
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm	22 23 24 25 25 25 25 25 25 25 25 25 25
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm 1	94 95 20 20 20 20 20 20 20 20 20 20
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm 1	94 95 200 200 200 40
stoul semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm 1	94 95 200 200 200 40
seou semiconouror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	53.0° / 79.0° 94 % 1.2 cd/lm 1 White TL1L2 55.0° / 79.0° 94 % 1 cd/lm 1	200



TOSHIBA Leading Innovation >>>		5 ³
LED	TL1L3	20
FWHM / FWTM	54.0°	
Efficiency	89 %	
LEDs/each optic	1	
Light colour	White	gr dr
Required component	ts:	



PRODUCT DATASHEET CS14130_HB-IP-2X6-W

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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