

HB-IP-2X6-RS

~20° spot beam

SPECIFICATION:

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

PRODUCT DATASHEET CS14895_HB-IP-2X6-RS



MATERIALS:

Component HB-IP-2X6-RS 2X6-SEAL25

Туре	
Multi-lens	
Seal	

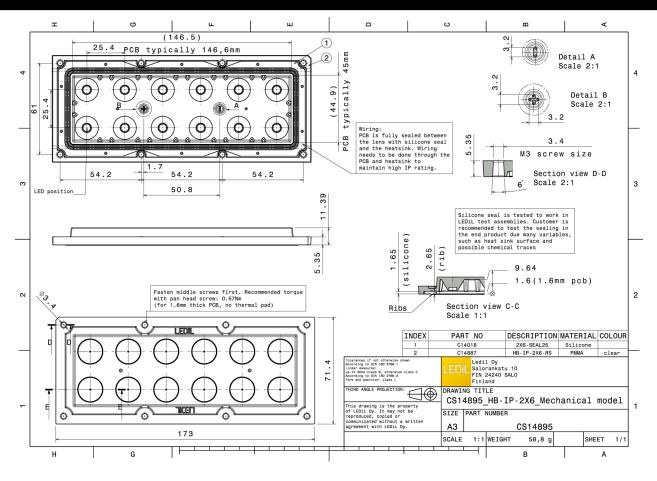
Material	Colour	Finish
PMMA	clear	
Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14895_HB-IP-2X6-RS	Multi-lens	120	40	40	8.0
» Box size: 476 x 273 x 247 mm					

ox size: 4/6 x 2/3 x 24/ mm

PRODUCT DATASHEET CS14895_HB-IP-2X6-RS



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



		xx* xx
LED	QUICK FLUX 2x6 LED XG xxx G7+	
FWHM / FWTM	16.0° / 33.0°	
Efficiency	94 %	
Peak intensity	7.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er tes
Required compone	ents:	
CODIT		13° mb 13°
ELECTRONICS		20 ⁴⁴
LED	QUICK FLUX 2x6 LED XT xxx G5	
FWHM / FWTM	13.0° / 26.0°	
Efficiency	94 %	97 / / 1 ³⁰⁶ / / 40
Peak intensity	10.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required compone	ents:	
		200 - 100 - 100 - 100 - 100
ODEE A		
CKEL		20 ⁴
	XW-1	20 ⁴
LED	XM-L 21.0° / 38.0°	20 ⁴
LED FWHM / FWTM	21.0° / 38.0°	
LED FWHM / FWTM Efficiency	21.0° / 38.0° 94 %	94 ⁴ 90 75 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity	21.0° / 38.0° 94 % 5.1 cd/lm	24 ⁴ 10 72 50 ⁶ 200 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21.0° / 38.0° 94 % 5.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White	90 ⁴ 100 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21.0° / 38.0° 94 % 5.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	21.0° / 38.0° 94 % 5.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE \$ LED FWHM / FWTM Efficiency	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone LED FWHM / FWTM Efficiency Peak intensity	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 38.0° 94 % 5.1 cd/lm 1 White ents: XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	



CREE LED XP-L HD FWHM / FWTM 20.0° / 37.0° Efficiency 93 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White Required components: 30	14 14 14 14
LED XP-L HD FWHM / FWTM 20.0° / 37.0° Efficiency 93 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White to the second secon	
FWHM / FWTM 20.0° / 37.0° Efficiency 93 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 93 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White	
Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White	-
LEDs/each optic 1 Light colour White	
Light colour White	
	X
	3*
	10.
	50*
LED XP-L2	har
FWHM / FWTM 22.0° / 43.0°	1
Efficiency 93 %	
Peak intensity 4.1 cd/lm	
LEDs/each optic 1	
Light colour White	X Xe
Required components:	
	34*
	12.
	15"
LED XT-E HE	15°
LED XT-E HE FWHM / FWTM 13.0° / 26.0°	15°
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 %	15"
LEDS XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm	12
LEDS LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1	
LEDS LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LEDS LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1	15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16
LEDS LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White	10°
LEDS LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White	15. 34 15. 45 15. 45 15
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components:	15. 15. 15. 15. 15. 15. 15. 15. 15. 15.
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components:	15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: ED LUMILEDS LED LUXEON T	10°
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/m LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0°	15. 15. 15. 15. 15. 15. 15. 15. 15. 15.
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 %	15. 15. 15. 15. 15. 15. 15. 15. 15. 15.
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/m LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 % Peak intensity 8.8 cd/lm	12 12 12 12 12 12 12 12 12 12
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 % Peak intensity 8.8 cd/lm LEDs/each optic 1	12 12 12 12 12 12 12 12 12 12
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 % Peak intensity 8.8 cd/lm LEDs/each optic 1 Light colour White	5
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 % Peak intensity 8.8 cd/lm LEDs/each optic 1	5
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 % Peak intensity 8.8 cd/lm LEDs/each optic 1 Light colour White	5
LED XT-E HE FWHM / FWTM 13.0° / 26.0° Efficiency 94 % Peak intensity 11.2 cd/lm LEDs/each optic 1 Light colour White Required components: CUMILEDS LED LUXEON T FWHM / FWTM 15.0° / 29.0° Efficiency 94 % Peak intensity 8.8 cd/lm LEDs/each optic 1 Light colour White	5



OLUMIL	EDS	20 ⁴
LED	LUXEON V	
FWHM / FWTM	20.0° / 41.0°	20
Efficiency	92 %	
Peak intensity	4.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		\times / \setminus \times
		207 et 107
	EDS	50 ⁴
LED	LUXEON V2	
FWHM / FWTM	15.0° / 30.0°	
Efficiency	94 %	55
Peak intensity	8.9 cd/lm	
LEDs/each optic	1	\rightarrow
Light colour	White	9 ⁴
Required compone	nts:	
		87, 3860 No.
	Ens	

LED	LUXEON XR-TX (L2T0-xxxx012M0000)	50°
LED FWHM / FWTM	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0°	***
LED FWHM / FWTM Efficiency	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 %	97°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm	97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1	97°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White	5° 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White	94°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: INUS SST-10-B130 12.0° / 22.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130 12.0° / 22.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxxx012M0000) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White nts: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	



MST Your solut	tions	1004
LED	RecLED 146x45mm 2900lm 730 2x6 IP G1	
FWHM / FWTM	14.0° / 27.0°	
Efficiency	95 %	
Peak intensity	10.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er in in
Required compone	nts:	
		*
		264 70 100
LED	NVSW219D	
FWHM / FWTM	16.0° / 30.0°	
Efficiency	94 %	
Peak intensity	8.1 cd/lm	
LEDs/each optic	1	\times / / \wedge \times
Light colour	White	
Required compone	nts:	
		N° 13" (° 13"
ØNICHI		au*au*
	NVSW219F	
		192 Juny 22
LED	NVSW219F	
LED FWHM / FWTM	NVSW219F 16.0° / 31.0°	90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F 16.0° / 31.0° 8 %	94 94 94 96 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm	94°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White	•
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White	erer
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0° 94 % 6.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0° 94 % 6.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0° 94 % 6.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0° 94 % 6.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White nts: NVSW319B 18.0° / 34.0° 94 % 6.5 cd/lm 1 White	



ØNICHI/	•	1000	*	800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 19.0° / 36.0° 92 % 5.7 cd/lm 1 White		30 67 100 100 100 100 100 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A 20.0° / 37.0° 95 % 5.6 cd/lm 1 White			
ØNICHI/	\	-	10° 0°	35*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxE21A 13.0° / 33.0° 94 % 8 cd/lm 1 White		92° Jacob 60°	13. 24. 26. 26. 26. 26. 26. 26. 26. 27. 26. 27. 26. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 16.0° / 32.0° 92 % 7.2 cd/lm 1 White		90 ⁴ 70 60 ⁴ 97 97 97 97 97 97 97 97 97 97 97 97 97	10 10 10 10 10 10 10 10 10 10 10 10 10 1



OSRAM Opto Semiconductors		м ⁴ А
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	13.0° / 24.0°	
Efficiency	94 %	
Peak intensity	12 cd/lm	
LEDs/each optic	1	(a)
Light colour	White	
Required compone	ents:	
		10 ¹ 10 ⁰⁰ 10 ¹
PHILIP	PS	av [*]
LED	Fortimo FastFlex LED 2x6 DP G4	
FWHM / FWTM	13.0° / 27.0°	
Efficiency	94 %	ar
Peak intensity	10.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e*
Required compone	ents:	
		$\times / \times \times$
		800
		10° e* 10°
PHILIP	PS	ж ^и
	Fortimo FastFlex LED 2x6 DP G5	
LED	Fortimo FastFlex LED 2x6 DP G5	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0°	19 ⁴ 11 19 ² 12 ¹⁰ 12
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNG HiLOM RH12 (LH351C) 17.0° / 31.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 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 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1	
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 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 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	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 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 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 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 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 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 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White ents: UNC HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White	



SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	BALAM-VP-5250-750-36 22.0° / 50.0° 95 % 3.6 cd/lm 1 White	10 ⁴ 10
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	BALAMEC-VE-5700-740-36 23.0° / 50.0° 96 % 3.5 cd/lm 1 White	90 92 92 92 93 94 96 96 96 96 96 96 96 96 96 96 96 96 96
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XLE-S22C4XTEHE (XT-E HE) 13.0° / 26.0° 94 % 11.2 cd/lm 1 White	90 ⁴ 90 ⁴ 9
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XLE-S26XHP35 (XHP35 HD) 24.0° / 45.0° 94 % 3.8 cd/m 1 White	



SEOUL		
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	2x6 5050 module - SMJD-3625012F-XX 24.0° / 53.0° 94 % 3 cd/lm 1 White nts:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SMJQ-D36W12Mx 15.0° / 39.0° 89 % 5.1 cd/lm 1 White nts:	No. 12. 6. 12. 20. No. 22. 6. 12. 20. No. 25. 6. 12. No. 12. 6. 12. No. 12. 6. 12. 12. No. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12
seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SMJQ-D36W12Px 16.0° / 36.0° 93 % 6.3 cd/lm 1 White nts:	
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M1/Z5M2 14.0° / 26.0° 94 % 10 cd/lm 1 White nts:	



SEOUL		A REAL PROPERTY AND A REAL PROPERTY.	w*	
	75140			
	Z5M3		2	
FWHM / FWTM	16.0° / 33.0°			
Efficiency	95 %		97	
Peak intensity	7.3 cd/lm			
LEDs/each optic	1		\sim	
Light colour	White			
Required componer	nts:		X	
			\times	
			10°	15° ×
SEOUL			800	80
SEOUL SEMICONDUCTOR	Z8Y22			\wedge
	15.0° / 39.0°		73*	
FWHM / FWTM Efficiency	89 %			
Peak intensity	5.1 cd/lm		95	/ 7
LEDs/each optic	1		\times	(
Light colour	White			
Required componer				
Required componer	113.			
			10*	ei, 72.,
			30° 15°	е 15 ¹
SEOUL SEMICONDUCTOR	Z8Y22P	1000	300%	
SEOUL SEMICONDUCTOR	Z8Y22P 17.0° / 34.0°		96° 350°	and the second s
seoul semiconductor LED FWHM / FWTM	Z8Y22P 17.0° / 34.0° 92 %		300%	
seoul semiconductor LED FWHM / FWTM Efficiency	17.0° / 34.0° 92 %		300%	10 10 10 10 10 10 10 10 10 10 10 10 10 1
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	17.0° / 34.0°		300%	10 10 10 10 10 10 10 10 10 10 10 10 10 1
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 34.0° 92 % 6.6 cd/lm		300%	3000
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	17.0° / 34.0° 92 % 6.6 cd/lm 1 White		300%	300 - 392 300 - 607
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White		300%	1000 - 329 2000 - 407
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White		300%	1000 - 329 2000 - 407
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White		300%	1000 - 329 2000 - 407
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts:		300%	1000 - 329 2000 - 407
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts:		300%	1000 - 329 2000 - 407
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts:		90°	100 100 100 100 100 100 100 100
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts:		90°	1000 - 329 2000 - 407
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts:		90°	100 100 100 100 100 100 100 100
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000Im HP EXC2 OTD 13.0° / 25.0°		90°	100 100 100 100 100 100 100 100
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 %		90°	1000 100 1000 1
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm		90°	100 100 100 100 100 100 100 100
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm 1 White		90°	1000 100 1000 1
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm 1 White		90°	1000 100 1000 1
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm 1 White		90°	1000 100 1000 1
stout semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 34.0° 92 % 6.6 cd/lm 1 White hts: RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm 1 White		90°	1000 100 1000 1



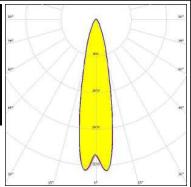
TRIDONIC

LED

FWHM / FWTM24Efficiency96Peak intensity3.4LEDs/each optic1Light colourWRequired components:

RLE 2x6 4500lm HP HE EXC3 OTD Z19 24.0° / 50.0° 96 % 3.4 cd/lm 1 White







		30* 30*
LED	J Series 5050 Round LES	
FWHM / FWTM	25.0° / 51.0°	20
Efficiency	94 %	
Peak intensity	3.4 cd/lm	er X / 1
LEDs/each optic	1	
Light colour	' White	150 150
Required components:	wille	
		ar e u /
		50 ⁴
LED	J Series 5050B 6V K Class	
FWHM / FWTM	24.0° / 52.0°	
Efficiency	94 %	
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	e^ / /
Required components:		
		\times
		*
		15" 0" 15"
		μ ^{μμ}
	ХВ-Н	80 ⁴
	XB-H 12.0° / 28.0°	80 ⁴
LED FWHM / FWTM		200 D
LED FWHM / FWTM Efficiency	12.0° / 28.0°	80 ⁴ 37 60 ⁴ 80
LED FWHM / FWTM	12.0° / 28.0° 92 %	80°
LED FWHM / FWTM Efficiency Peak intensity	12.0° / 28.0° 92 % 10.6 cd/lm	0. NX 0.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 28.0° 92 % 10.6 cd/lm 1	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1	50 ⁴ 77 60 ⁴ 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 28.0° 92 % 10.6 cd/lm 1	15° 6° 15° 6° 6° 6° 7° 8° 7° 8° 8° 8°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 28.0° 92 % 10.6 cd/lm 1 White	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 28.0° 92 % 10.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0°	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm 1	90° 00 00 175' 0° 15° 00 00 175' 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm	90° 00 00 175' 0° 15° 00 00 175' 0° 15°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm 1	900 900 900 900 900 900 900 900 900 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CEEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 28.0° 92 % 10.6 cd/lm 1 White XHP35 HD 22.0° / 46.0° 93 % 3.8 cd/lm 1	900 900 900 900 900 900 900 900 900 900



		100 Date: 100 Da
LED	XHP35 HI	\land
FWHM / FWTM	16.0° / 32.0°	
	93 %	
Efficiency		807 807
Peak intensity	8.1 cd/lm	
LEDs/each optic	1 White	
Light colour Required components:	Wille	
		ar e ar
		M ⁴
LED	XHP35.2 HD	
FWHM / FWTM	26.0° / 48.0°	
Efficiency	92 %	
Peak intensity	3.3 cd/lm	
LEDs/each optic	1	
Light colour	White	e / / / e
Required components:		
		17. 6. 10.
		50°
	XP-E2	N4. N5
LED	XP-E2 11.0° / 26.0°	25 100 100
LED FWHM / FWTM	XP-E2 11.0° / 26.0° 91 %	20 27 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency	11.0° / 26.0°	80°
LED FWHM / FWTM	11.0° / 26.0° 91 %	90°
LED FWHM / FWTM Efficiency Peak intensity	11.0° / 26.0° 91 % 14.1 cd/lm	20" 20" 75" 20" 60" 60" 0" 60"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 26.0° 91 % 14.1 cd/lm 1	50° 50° 50° 60° 60° 60° 60° 60° 50° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1	57° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1	84°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	11.0° / 26.0° 91 % 14.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	11.0° / 26.0° 91 % 14.1 cd/lm 1 White	Mu. 10. 10. 10. 10. 10. 10. 10. 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	11.0° / 26.0° 91 % 14.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm	64. 64. 66. 66. 66. 66. 66. 66. 66. 66.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm 1	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm	er la
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm 1	er le
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm 1	er le
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	11.0° / 26.0° 91 % 14.1 cd/lm 1 White XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm 1	er let



		W ⁴ BV ⁴
LED	XP-G4	
FWHM / FWTM	14.0° / 26.0°	12.
Efficiency	93 %	VALAN
Peak intensity	10.3 cd/lm	9° / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	$X \neq A \land X$
Light colour	White	
Required components:	White	in the second se
Required components.		
		30° 30° 15° 6° 15°
		w
LED	XQ-E HD	
FWHM / FWTM	8.0° / 19.0°	
Efficiency	92 %	A A A A A A A A A A A A A A A A A A A
Peak intensity	21.8 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components:		\mathbb{N}/\mathbb{N}
		X X
		15" " 15"
	05	MAM
	LUXEON 5050 Round LES	
		20
LED	LUXEON 5050 Round LES	94 75 00 00 00 00
LED FWHM / FWTM	LUXEON 5050 Round LES 23.0° / 50.0°	94 195 60 100
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES 23.0° / 50.0° 91 %	94 - 100 - 100 - 100
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White	er 500 500 500 500 500 500 500 500 500 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 23.0° / 50.0° 91 % 3.7 cd/lm 1 White S LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm 1	



	S	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 10.0° / 23.0° 91 % 17.3 cd/lm 1 Cyan	22
Μ ΝΙCΗΙΛ		10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 22.0° / 40.0° 94 % 4.8 cd/lm 1 White	792
OSRAM		25° 6° 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	PrevaLED Brick HP IP 2x6 14.0° / 28.0° 92 % 10.1 cd/lm 1 White	17. et 12. et 63. et 63. et 65. et 75.
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ C 2424 11.0° / 22.0° 93 % 16.6 cd/lm 1 White	97



OSRAM Opto Semiconductors LED	OSCONIQ P 3030	8°
FWHM / FWTM	9.0° / 20.0°	20
Efficiency	94 %	and the second sec
Peak intensity	21.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er (300) er
Required components:		
OSRAM Opto Semiconductors		×*
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	12.0° / 25.0°	
Efficiency	89 %	
Peak intensity	13 cd/lm	
LEDs/each optic	1	
Light colour	White	er / / / er
Required components:		
		90° 10° 10° 30°
OSRAM Opto Semiconductors		*
OSRAM Opto Semiconductors	OSCONIO P 3737 (3W version)	50°
LED	OSCONIQ P 3737 (3W version) 19.0° / 37.0°	90°
LED FWHM / FWTM	OSCONIQ P 3737 (3W version) 19.0° / 37.0° 93 %	90°
LED FWHM / FWTM Efficiency	19.0° / 37.0° 93 %	90°
LED FWHM / FWTM Efficiency Peak intensity	19.0° / 37.0°	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 37.0° 93 % 6.1 cd/lm	90°
LED FWHM / FWTM Efficiency Peak intensity	19.0° / 37.0° 93 % 6.1 cd/lm 1	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 93 % 6.1 cd/lm 1	en
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	19.0° / 37.0° 93 % 6.1 cd/lm 1	en
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 93 % 6.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 93 % 6.1 cd/lm 1 White OSCONIQ P 3737 Flat 14.0° / 30.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	19.0° / 37.0° 93 % 6.1 cd/lm 1 White OSCONIQ P 3737 Flat 14.0° / 30.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OPD SERAM Opto Semiconductors LED FWHM / FWTM	19.0° / 37.0° 93 % 6.1 cd/lm 1 White OSCONIQ P 3737 Flat 14.0° / 30.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 93 % 6.1 cd/lm 1 White OSCONIQ P 3737 Flat 14.0° / 30.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	19.0° / 37.0° 93 % 6.1 cd/lm 1 White OSCONIQ P 3737 Flat 14.0° / 30.0° 94 % 9.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Core Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	19.0° / 37.0° 93 % 6.1 cd/lm 1 White OSCONIQ P 3737 Flat 14.0° / 30.0° 94 % 9.7 cd/lm 1	



OSRAM Opto Semiconductors		50 ⁴
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	10.0° / 20.0°	7° , , , , , , , , , , , , , , , , , , ,
Efficiency	92 %	
Peak intensity	20.2 cd/lm	** / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	X / A X X
	Far Red	
Light colour		1
Required components:		\mathbb{N}/\mathbb{N}
		\times
		80°
SAMSUN	IG	
LED	LH181B	
FWHM / FWTM	13.0° / 28.0°	
Efficiency	93 %	
Peak intensity	10.8 cd/lm	\times / / \wedge \times
LEDs/each optic	1	
Light colour	White	
Required components:		
сллдии	IC	
SAMSUN		30°
LED	LH231B	25
LED FWHM / FWTM	LH231B 16.0° / 32.0°	200
LED FWHM / FWTM Efficiency	LH231B 16.0° / 32.0° 93 %	90
LED FWHM / FWTM Efficiency Peak intensity	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm	99 97 97 97 97 98 97 98 97 98 98 98 98 98 98 98 98 98 98 98 98 98
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	90° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm	97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	55°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	50° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White	No. No. No. No. No. No. No. No. No. No. No. No.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White	25 26 26 26 27 26 26 26 27 26 26 26 27 26 26 27 26 27 26 26 27 27 26 26 27 27 26 27 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White G LH351D 22.0° / 40.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 cd/lm	95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	95
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	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 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	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	95
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	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	100 100 100 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 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	LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1 White LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	



SEOUL SEMICONDUCTOR		x*
LED	Z5M4	
FWHM / FWTM	16.0° / 34.0°	1500
Efficiency	93 %	
Peak intensity	7.7 cd/lm	
LEDs/each optic	1	
Light colour	White	420 420
Required components:		\times / \times
		438
		\times / \times
		8° 800 8° 8°
SEOUL SEMICONDUCTOR		w [*]
	Z8Y22T	
SEOUL SEMICONDUCTOR	Z8Y22T 15.0° / 33.0°	19. 19. 19. 19. 19. 19. 19. 19. 19. 19.
seoul semiconductor LED		1000 1000 1000
seoul semiconductor LED FWHM / FWTM	15.0° / 33.0°	10° 17° 17° 10° 10° 10° 10°
seoul semiconductor LED FWHM / FWTM Efficiency	15.0° / 33.0° 93 %	80° 10° 10°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	15.0° / 33.0° 93 % 7.9 cd/lm	17. 17. 19.7 19.7 19.7 19.7 19.7 19.7 19
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	15.0° / 33.0° 93 % 7.9 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 33.0° 93 % 7.9 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 33.0° 93 % 7.9 cd/lm 1	e
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	15.0° / 33.0° 93 % 7.9 cd/lm 1	e



PRODUCT DATASHEET CS14895_HB-IP-2X6-RS

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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