

# HB-IP-2X6-RS

~20° spot 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 CS14895\_HB-IP-2X6-RS



## MATERIAL SPECIFICATIONS:

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

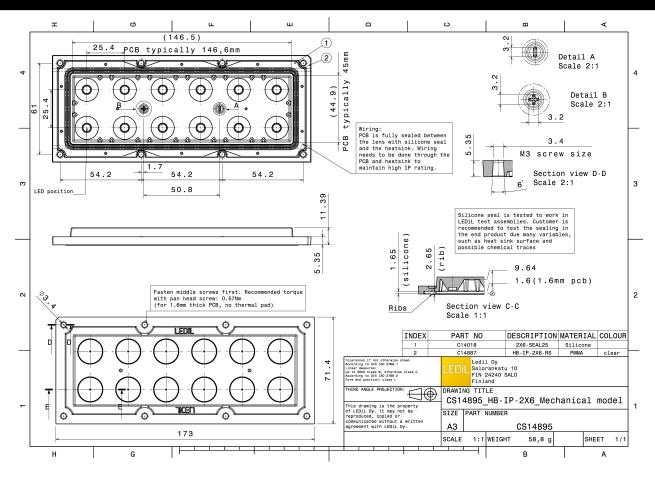
Colour	Finish
clear	
white	
	clear

#### **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					

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# PRODUCT DATASHEET CS14895\_HB-IP-2X6-RS



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+ 16.0° / 33.0° 94 % 7.3 cd/lm 1 White nts:	34. 35. 400 400 400 400 400 400 400 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	QUICK FLUX 2x6 LED XT xxx G5 13.0° / 26.0° 94 % 10.7 cd/lm 1 White nts:	27 0° 10° 2° 26° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L 21.0° / 38.0° 94 % 5.1 cd/lm 1 White	3), 3), 6, 6, 752 752 75, 75, 75, 75, 75, 75, 75, 75, 75, 75,
CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	30° 30° 50° 50° 50° 50° 50° 50° 50° 5



		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HD 20.0° / 37.0° 93 % 5.4 cd/lm 1 White	20° 6° 12° 2° 2° 6° 6° 1000 6° 1000 6°
		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 22.0° / 43.0° 93 % 4.1 cd/lm 1 White	27 27 27 27 27 27 27 27 27 27
	1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E HE 13.0° / 26.0° 94 % 11.2 cd/lm 1 White	20 0 0 0 0 0 0 0 0 0 0 0 0 0
	EDS	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T 15.0° / 29.0° 94 % 8.8 cd/lm 1 White	30- 51- 602 60- 602 60- 60- 60- 60- 60- 60- 60- 60-



<b>M</b>	EDC	
CONTRACT OF CONTRACT.	LUXEON V 20.0° / 41.0° 92 % 4.7 cd/lm 1 White	
	FDS	94 <sup>4</sup> 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V2 15.0° / 30.0° 94 % 8.9 cd/lm 1 White	21 <sup>2</sup> 22 22 22 22 22 22 22 22 22 22 22 22 2
	FDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	



ecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1 4.0° / 27.0° 5 % 0.3 cd/lm /hite	•	95° 92 75° 72 96° 720 720
		20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6.0° / 30.0° 4 % .1 cd/lm /hite		23- 25- 25- 25- 25- 25- 25- 25- 25- 25- 25
6.0° / 31.0° % 4 cd/lm /hite		
8.0° / 34.0° 4 % 5 cd/lm /hite		200 200 200 200 200 200 200 200
	VSW219D 6.0° / 30.0° 4 % 1 cd/lm Vhite : VSW219F 6.0° / 31.0° % 4 cd/lm Vhite : VSW319B 8.0° / 34.0° 4 % .5 cd/lm Vhite :	6.0° / 30.0° 4 % .1 cd/lm /hite  IVSW219F 6.0° / 31.0° % 4 cd/lm /hite  IVSW319B 8.0° / 34.0° 4 % .5 cd/lm /hite



<b>ØNICHI</b>		84
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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A 20.0° / 37.0° 95 % 5.6 cd/lm 1 White	
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxE21A 13.0° / 33.0° 94 % 8 cd/lm 1 White	
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	
		20 <sup>10</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>



OSRAM Opto Semiconductors		90 <sup>4</sup>
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	13.0° / 24.0°	32
Efficiency	94 %	
Peak intensity	12 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 67
Required compone		
		×××
		x <sup>0</sup>
		12% 12%
PHILIF	<b>S</b>	50°
LED	Fortimo FastFlex LED 2x6 DP G4	
FWHM / FWTM	13.0° / 27.0°	
Efficiency	94 %	60 <sup>4</sup>
Peak intensity	10.6 cd/lm	$\Gamma \sim 1/\Gamma \sim 2$
LEDs/each optic	1	
Light colour	White	gr 6600 Q*
Required compone	ints:	
		500
		340
PHILIP	<b>S</b>	94°
	PS Fortimo FastFlex LED 2x6 DP G5	99 <sup>4</sup> 99 <sup>5</sup>
		25° (° 25°
LED	Fortimo FastFlex LED 2x6 DP G5	
LED FWHM / FWTM	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0°	25° 0° 25°
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 %	25° 00 25°
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm	
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 Its:	
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 Its:	
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 Its:	
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 Ints:	
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 Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White I White I I I I I I I I I I I I I	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DP G5 14.0° / 26.0° 96 % 10.4 cd/lm 1 White Ints: UNG 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 I White MB 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 I White 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 I White 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 I White 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 SAMSS 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 I White 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	XLE-S22C4XTEHE (XT-E HE) 13.0° / 26.0° 94 % 11.2 cd/lm 1 White	200
SCIO		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) 24.0° / 45.0° 94 % 3.8 cd/lm 1 White	
SECUL SEMICONDUCTOR	2x6 5050 module - SMJD-3625012F-XX	<b>3</b> 0 <sup>4</sup> <b>3</b> 0 <sup>4</sup>
FWHM / FWTM Efficiency Peak intensity	24.0° / 53.0° 94 % 3 cd/lm	60°
LEDs/each optic Light colour Required componer	1 White hts:	9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u> 9' <u>300</u>
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	SMJQ-D36W12Mx 15.0° / 39.0° 89 % 5.1 cd/m 1 White hts:	97 97 97 96 96 96 96 96 96 96 96 96 96 96 96 96



SEOUL			
			90° 90°
SEOUL SEMICONDUCTOR			
	SMJQ-D36W12Px		75
FWHM / FWTM	16.0° / 36.0°		1000
Efficiency	93 %		60° - 60°
	6.3 cd/lm		
LEDs/each optic	1		ar - 300
•	White		
Required componen	15.		400
			30° 0° 15° 30°
SEOUL			90* 90*
SEOUL SEMICONDUCTOR	Z5M1/Z5M2		
	14.0° / 26.0°		25
Efficiency	94 %		
	10 cd/lm		60° 60°
LEDs/each optic	1		$   \times / /    \setminus \times  $
	White		gy 6330 675
Required componen			
rtoquiroù oomponon			
			***
			30° 30° 30°
SEOUL			
			90° A 90°
SEOUL SEMICONDUCTOR	Z5M3	and the second se	50° 50°
seoul semiconductor	Z5M3 16.0° / 33.0°		30 <sup>+</sup> 27 <sup>+</sup> 1000
seoul semiconductor LED FWHM / FWTM	16.0° / 33.0°		50 <sup>1</sup> 75 1000
seoul semiconductor LED FWHM / FWTM Efficiency	16.0° / 33.0° 95 %		27 1000 501
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	16.0° / 33.0°		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 95 % 7.3 cd/lm		7. 600 60 500 500 60 60 60 60 60 60 60 60 60 60 60 60 6
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 95 % 7.3 cd/lm 1 White		27 1000 501
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 95 % 7.3 cd/lm 1 White		7. 600 60 500 500 60 60 60 60 60 60 60 60 60 60 60 60 6
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 95 % 7.3 cd/lm 1 White		7. 600 60 500 500 60 60 60 60 60 60 60 60 60 60 60 60 6
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 95 % 7.3 cd/lm 1 White		5 5 6 7 7 7 7 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 Required componen	16.0° / 33.0° 95 % 7.3 cd/lm 1 White		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	16.0° / 33.0° 95 % 7.3 cd/lm 1 White		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts:		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0°		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seoul semiconductor LED FWHM / FWTM Efficiency	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 %		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm 1		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm 1 White		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm 1 White		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm 1 White		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 95 % 7.3 cd/lm 1 White ts: Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm 1 White		



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22P 17.0° / 34.0° 92 % 6.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm 1 White	



LED FWHM / FWTM Efficiency Peak intensity	J Series 5050 Round LES 25.0° / 51.0° 94 % 3.4 cd/lm	60 <sup>4</sup> 60 <sup>4</sup> 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	43 <sup>1</sup>
Required components:		200 200 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup>
		50°
LED	J Series 5050 Square LES	75
FWHM / FWTM	24.0° / 52.0°	
Efficiency	94 %	605
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	92× 651
Required components:		2430
		30° 30° 30°
		80°
LED	ХВ-Н	
FWHM / FWTM	12.0° / 28.0°	7
Efficiency	92 %	200
Peak intensity	10.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45 <sup>4</sup> 6430
Required components:		30° 30° 30°
		90° 90'
LED	XHP35 HD	
FWHM / FWTM	22.0° / 46.0°	
Efficiency	93 %	
Peak intensity	3.8 cd/lm	1630
LEDs/each optic	1	
Light colour Required components:	White	200 0



LED FWHM / FWTM Efficiency Peak intensity	XHP35 HI 16.0° / 32.0° 93 % 8.1 cd/lm	91 <sup>4</sup> 91 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45*
Required components:	White	30° CP 13° 30°
		90* 90*
LED	XHP35.2	25*
FWHM / FWTM	26.0° / 48.0°	000
Efficiency	92 %	50°
Peak intensity	3.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er la
Required components:		2400
		30° 36° 36°
		90 <sup>4</sup> 90 <sup>4</sup>
LED	XP-E2	
FWHM / FWTM	11.0° / 26.0°	75. 75.
Efficiency	91 %	
Peak intensity	14.1 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components:		30 H H H H H H H H H H H H H H H H H H H
		90* A 90*
	XP-G2 HE	8°
LED FWHM / FWTM	XP-G2 HE 17.0° / 35.0°	21
LED		20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity	17.0° / 35.0°	84
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 35.0° 93 %	61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	17.0° / 35.0° 93 % 6.9 cd/lm	81
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	17.0° / 35.0° 93 % 6.9 cd/lm 1	er



CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XQ-E HD 8.0° / 19.0° 92 % 21.8 cd/lm 1 White	20 00 00 00 00 00 00 00 00 00 00 00 00 0
CUMILEE 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	9° 9° 9° 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES 25.0° / 52.0° 94 % 3.2 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 22.0° / 40.0° 94 % 4.8 cd/lm 1 White	23 6 7 7 7 7 7 7 7 7 7 7 7 7 7



OSRAM		90° 90°
LED	PrevaLED Brick HP IP 2x6	
FWHM / FWTM	14.0° / 28.0°	75 75
Efficiency	92 %	
Peak intensity	10.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	g*
Required components:		6430
- 1 1		
		15° 0° 15°
OSRAM Opto Semiconductors		90° A
LED	OSCONIQ C 2424	
FWHM / FWTM	11.0° / 22.0°	
Efficiency	93 %	605
Peak intensity	16.6 cd/lm	6400
LEDs/each optic	1	
Light colour	White	43× 45
Required components:		
		30°
OSRAM		
Opto Semiconductors		90°
LED		
	OSCONIQ P 3030	251
FWHM / FWTM	9.0° / 20.0°	73
Efficiency		9)* 533
Efficiency Peak intensity	9.0° / 20.0°	5)* 23
Efficiency Peak intensity LEDs/each optic	9.0° / 20.0° 94 % 21.8 cd/lm 1	23 <sup>1</sup>
Efficiency Peak intensity LEDs/each optic Light colour	9.0° / 20.0° 94 % 21.8 cd/lm	5. 23. 23. 23. 23. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20
Efficiency Peak intensity LEDs/each optic	9.0° / 20.0° 94 % 21.8 cd/lm 1	23 <sup>1</sup> 29 <sup>1</sup> 29 <sup>1</sup> 29 <sup>1</sup> 20 <sup>10</sup> 20 <sup>10</sup>
Efficiency Peak intensity LEDs/each optic Light colour	9.0° / 20.0° 94 % 21.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	9.0° / 20.0° 94 % 21.8 cd/lm 1	23 - 72 gys - 660 gys - 60 gys - 70 gys - 70 gy
Efficiency Peak intensity LEDs/each optic Light colour	9.0° / 20.0° 94 % 21.8 cd/lm 1	20 <sup>-</sup> 10 <sup>-</sup> 10 <sup>-</sup> 10 <sup>-</sup> 10 <sup>-</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version)	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0°	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm	gyt (0)
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm 1	9 <sup>1</sup> 60
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm	9 <sup>1</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm 1	90° (500)
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm 1	9/1 (COR) 9/1 (COR) 9/1 (COR)
Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.0° / 20.0° 94 % 21.8 cd/lm 1 White OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm 1	9%* (CC)



OSRAM Opto Semiconductors		90* A 90*
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	19.0° / 37.0°	75
Efficiency	93 %	1600
Peak intensity	6.1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	2200 est
Required components:		
		4630
		30°
		30° 30° 30°
OSRAM Opto Semiconductors		90° A 90°
LED	OSCONIQ P 3737 Flat	
FWHM / FWTM	14.0° / 30.0°	73*
Efficiency	94 %	3200
Peak intensity	9.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required components:		6430
		30-
		15° 0° 35°
SAMSUN	IG	90° A 90°
	LH181B	90°
		37 97
LED	LH181B	
LED FWHM / FWTM	LH181B 13.0° / 28.0°	60 <sup>4</sup> 737 739 739 739 739 759 759 759
LED FWHM / FWTM Efficiency	LH181B 13.0° / 28.0° 93 %	90° 300 720 50°
LED FWHM / FWTM Efficiency Peak intensity	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm	90° 300 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1	gr (60) (61) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1	da. 902   da. 902   33. 92   35. 92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1	9° 9° 9° 9° 9° 9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White	Bit Dis   Bit 0 0   Bit 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White LH231B 16.0° / 32.0° 93 %	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White I LH231B 16.0° / 32.0° 93 % 8.6 cd/lm	50°
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	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	
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	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White I LH231B 16.0° / 32.0° 93 % 8.6 cd/lm	50°
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	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	64 000 64 32
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	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	55° 65° 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	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	55° 65° 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	LH181B 13.0° / 28.0° 93 % 10.8 cd/lm 1 White LH231B 16.0° / 32.0° 93 % 8.6 cd/lm 1	22. 64. 1200 64. 1200 65. 120 120 120 120 120 120 120 120



SAMSUN	IG	90* 90*
LED	LH351D	
FWHM / FWTM	22.0° / 40.0°	75.
Efficiency	93 %	
Peak intensity	4.6 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	ga
Required components:		34° 250 250
SEDUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z8Y22T	N:
FWHM / FWTM	15.0° / 33.0°	
Efficiency	93 %	60* 60*
Peak intensity	7.9 cd/lm	$\times$ / $\uparrow$
LEDs/each optic	1	
Light colour	White	45%
Required components:		24° 25° 4° 25°



## 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:

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