

# 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

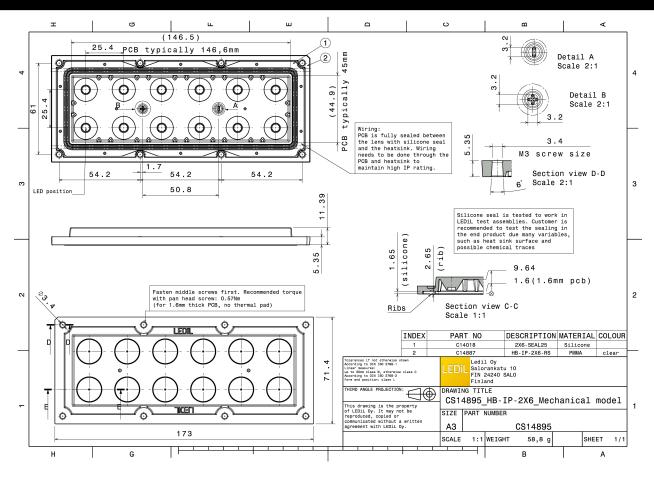
Material	Colour	Finish
PMMA	clear	
Silicone	white	

# **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					

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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 componen	QUICK FLUX 2x6 LED XG xxx G7+ 16.0° / 33.0° 94 % 7.3 cd/lm 1 White nts:	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX 2x6 LED XT xxx G5 13.0° / 26.0° 94 % 10.7 cd/lm 1 White nts:	20° - 20° -
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XM-L 21.0° / 38.0° 94 % 5.1 cd/lm 1 White	90 <sup>4</sup> 97 97 97 97 97 97 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90
CREE C LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G2 13.0° / 27.0° 94 % 10.6 cd/lm 1 White	200 200 200 200 200 200 200 200



CREE <del>4</del>	74		50° 500
LED	XP-L HD		
FWHM / FWTM	20.0° / 37.0°		
Efficiency	93 %		1000
Peak intensity	5.4 cd/lm		
LEDs/each optic	1		
Light colour	White		43 <sup>1</sup> 3200 43 <sup>2</sup>
Required compone			
			4500
CREE <del>(</del>	<u> </u>		125 <sup>-1</sup> 0 <sup>4</sup> 125 <sup>-</sup>
			90* 90'
LED	XP-L2		751
FWHM / FWTM	22.0° / 43.0°		
Efficiency	93 %		601 601
Peak intensity	4.1 cd/lm		1000
LEDs/each optic	1		
Light colour	White		42 <sup>4</sup>
Required compone	ents:		
			3200
CREE <del>4</del>			
LED	XT-E HE		
LED			75
	10 00 / 00 00		
FWHM / FWTM	13.0° / 26.0°		
Efficiency	94 %		60 <sup>5</sup>
Efficiency Peak intensity	94 % 11.2 cd/lm		91 <sup>-</sup>
Efficiency Peak intensity LEDs/each optic	94 % 11.2 cd/lm 1		
Efficiency Peak intensity LEDs/each optic Light colour	94 % 11.2 cd/lm 1 White		9 <sup>34</sup> 60 97 500 60
Efficiency Peak intensity LEDs/each optic	94 % 11.2 cd/lm 1 White		90 <sup>4</sup> (0) 97 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour	94 % 11.2 cd/lm 1 White		90 <sup>4</sup> 600 97 <sup>4</sup> 650 900
Efficiency Peak intensity LEDs/each optic Light colour	94 % 11.2 cd/lm 1 White		91 <sup>4</sup> 600 91 <sup>4</sup> 600 90.9
Efficiency Peak intensity LEDs/each optic Light colour	94 % 11.2 cd/lm 1 White		
Efficiency Peak intensity LEDs/each optic Light colour	94 % 11.2 cd/lm 1 White Ints:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White Ints:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White Ints:		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White Ints: EDS		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White mts: EDS LUXEON T 15.0° / 29.0°		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White mts: EDS LUXEON T 15.0° / 29.0° 94 %		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White I White Mite Mite Mite S LUXEON T 15.0° / 29.0° 94 % 8.8 cd/lm 1		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White ints: EDS LUXEON T 15.0° / 29.0° 94 % 8.8 cd/lm 1 White		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White ints: EDS LUXEON T 15.0° / 29.0° 94 % 8.8 cd/lm 1 White		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White ints: EDS LUXEON T 15.0° / 29.0° 94 % 8.8 cd/lm 1 White		
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 11.2 cd/lm 1 White ints: EDS LUXEON T 15.0° / 29.0° 94 % 8.8 cd/lm 1 White		



🕐 LUMIL	.EDS	30, 30, 30,
LED	LUXEON V	
FWHM / FWTM	20.0° / 41.0°	
Efficiency	92 %	
Peak intensity	4.7 cd/lm	
LEDs/each optic	1	
Light colour	White	ar a
Required compone		- 309
		$\times$ / $\setminus$ $\times$
		30*
		125 <sup>°</sup> 0 <sup>°</sup> 125 <sup>°</sup>
UMIL	.EDS	50*
LED	LUXEON V2	
FWHM / FWTM	15.0° / 30.0°	
Efficiency	94 %	607 60
Peak intensity	8.9 cd/lm	$K \neq 77$
LEDs/each optic	1	
Light colour	White	a, a
Required compone	ents:	6400
		$\times$ / $\vee$ $\times$
		30 <sup>4</sup> 10 <sup>5</sup> 500 10 <sup>5</sup>
UMIL	.EDS	50° A 50'
		90 <sup>4</sup> 90
	LUXEON XR-TX (L2T0-xxyy012M)	99 <sup>3</sup> 99 32 <sup>3</sup> 25
LED		
LED FWHM / FWTM	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0°	
LED FWHM / FWTM Efficiency	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	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	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	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	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	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	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents:	
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 white SST-10-B130	
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 ents: SST-10-B130 12.0° / 22.0°	
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 ents: 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-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents: SST-10-B130 12.0° / 22.0°	945 36 <sup>4</sup> 35
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Kequired compone Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1	945 36 <sup>4</sup> 35
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Kequired compone Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	945 36 <sup>4</sup> 35
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents: 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 Equired compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) 14.0° / 27.0° 92 % 10.1 cd/lm 1 White ents: SST-10-B130 12.0° / 22.0° 94 % 15.6 cd/lm 1 Deep Red	



MST Vour solu	tions	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 146x45mm 2900lm 7x0 2x6 IP Opt G2 13.5° / 27.0° 95 % 10.3 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 16.0° / 30.0° 94 % 8.1 cd/lm 1 White	59° 59° 69° 200 600 600
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F 16.0° / 31.0° 8 % 94 cd/lm 1 White	60 60 60 60 60 60 60 60 60 60 60 60 60 6
Required compone	nts: NVSW319B	500 500 500 500 500 500 500 500
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	18.0° / 34.0° 94 % 6.5 cd/lm 1 White ents:	30° 0° 12° 30° 0° 12° 60° 0° 60° 0° 60° 0° 1200 0°



ØNICHI/		90
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	
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/		23, 6, 13,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxE21A 13.0° / 33.0° 94 % 8 cd/lm 1 White ents:	
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	



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OSRAM Opto Semiconductors		90° A 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	13.0° / 24.0°	73.
Efficiency	94 %	50°
Peak intensity	12 cd/lm	
LEDs/each optic	1	
Light colour	White	g <sup>*</sup>
Required compone	nts:	
		800
		30° 34°
		15 1200 15
PHILIF	25	90*
LED	Fortimo FastFlex LED 2x6 DP G4	75"
FWHM / FWTM	13.0° / 27.0°	
Efficiency	94 %	50° 50°
Peak intensity	10.6 cd/lm	
LEDs/each optic	1	
Light colour	White	63° 63°
Required compone	nts:	
		800
		30*
SAMS	ING	90° 90°
SAMSI		50 <sup>4</sup>
LED	HiLOM RH12 (LH351C)	90 <sup>*</sup> 35 <sup>*</sup> 25 <sup>*</sup>
LED FWHM / FWTM	HiLOM RH12 (LH351C) 17.0° / 31.0°	35. 26. 29.
LED FWHM / FWTM Efficiency	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 %	50° 50°
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm	99 <sup>4</sup> 25 <sup>3</sup> 200 223
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1	99° 99° 99° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White	99° 90° 99° 70° 99° 70° 70° 90° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White	a.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White	a.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White	<b>5</b> 7 <b>6</b> 39 <b>6</b> 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White	ar
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts:	yu
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White Ints: LUX XLE-S22C4XTEHE (XT-E HE)	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts: <b>LUX</b> XLE-S22C4XTEHE (XT-E HE) 13.0° / 26.0°	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts: <b>LUX</b> XLE-S22C4XTEHE (XT-E HE) 13.0° / 26.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts: <b>LUX</b> XLE-S22C4XTEHE (XT-E HE) 13.0° / 26.0° 94 % 11.2 cd/lm	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts: <b>LUX</b> XLE-S22C4XTEHE (XT-E HE) 13.0° / 26.0° 94 % 11.2 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 (LH351C) 17.0° / 31.0° 94 % 7.4 cd/lm 1 White nts:	200 200 200 200 200 200 200 200



SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S26XHP35 (XHP35 HD) 24.0° / 45.0° 94 % 3.8 cd/lm 1 White	
SEQUE		
SEOUL 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		
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:	22 02 22 02 22 02 20 02 02 02 02 02 02 0
stout stemiconductor 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:	



seoul 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		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M3 16.0° / 33.0° 95 % 7.3 cd/lm 1 White nts:	
SEOUL		
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22 15.0° / 39.0° 89 % 5.1 cd/lm 1 White nts:	27. 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12
stout, 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:	g, g, g, g, g, g, g, g, g, g, g, g, g, g



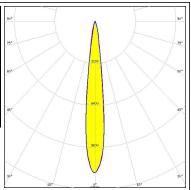
# **TRIDONIC**

LED

FWHM / FWTM 13 Efficiency 94 Peak intensity 11 LEDs/each optic 1 Light colour WI Required components:

RLE 2x6 3000lm HP EXC2 OTD 13.0° / 25.0° 94 % 11.6 cd/lm 1 White







CREE \$      .ED    J Series 5050 Round LES      WHM / FWTM    25.0° / 51.0°      Efficiency    94 %      Peak intensity    3.4 cd/m      LEDs/each optic    1      Light colour    White      Required components:
EWHM / FWTM    25.0° / 51.0°      Efficiency    94 %      Peak intensity    3.4 cd/m      LEDs/each optic    1      Light colour    White      Required components:    Image: Component State
Efficiency 94 % Peak intensity 3.4 cd/lm EDs/each optic 1 Light colour White Required components: ED XB-H WHM / FWTM 12.0° / 28.0° Efficiency 92 % Peak intensity 10.6 cd/lm EDs/each optic 1 Light colour White Required components:
Peak intensity    3.4 cd/lm      LEDs/each optic    1      Light colour    White      Required components:
LEDs/each optic 1 Light colour White Required components: LED XB-H TWHM / FWTM 12.0° / 28.0° Efficiency 92 % Peak intensity 10.6 cd/lm LEDs/each optic 1 Light colour White Required components:
Light colour White Required components: White CREE LED XB-H WHM / FWTM 12.0° / 28.0° Efficiency 92 % Peak intensity 10.6 cd/m LEDs/each optic 1 Light colour White Required components:
Required components: ED XB-H TWHM / FWTM 12.0° / 28.0° Efficiency 92 % Peak intensity 10.6 cd/lm EDS/each optic 1 Light colour White Required components:
CREE LED XB-H WHM / FWTM 12.0° / 28.0° Efficiency 92 % Peak intensity 10.6 cd/lm LEDs/each optic 1 .ight colour White Required components:
ED    XB-H      FWHM / FWTM    12.0° / 28.0°      Efficiency    92 %      Peak intensity    10.6 cd/lm      LEDs/each optic    1      Light colour    White      Required components:    Vertication
ED    XB-H      FWHM / FWTM    12.0° / 28.0°      Efficiency    92 %      Peak intensity    10.6 cd/lm      LEDs/each optic    1      Light colour    White      Required components:    Vertication
ED    XB-H      FWHM / FWTM    12.0° / 28.0°      Efficiency    92 %      Peak intensity    10.6 cd/lm      LEDs/each optic    1      Light colour    White      Required components:    Vertication
ED    XB-H      FWHM / FWTM    12.0° / 28.0°      Efficiency    92 %      Peak intensity    10.6 cd/lm      LEDs/each optic    1      Light colour    White      Required components:    Vertication
FWHM / FWTM    12.0° / 28.0°      Efficiency    92 %      Peak intensity    10.6 cd/lm      LEDs/each optic    1      Light colour    White      Required components:
Efficiency 92 % Peak intensity 10.6 cd/lm LEDs/each optic 1 Light colour White Required components:
Peak intensity 10.6 cd/lm LEDs/each optic 1 Light colour White Required components:
LEDs/each optic 1 Light colour White Required components:
Light colour White Required components:
Required components:
305 0° 25° 0°
36 <sup>5</sup> 35 <sup>9</sup> 9 <sup>4</sup> 35 <sup>9</sup>
90 <sup>2</sup> 20 <sup>2</sup> 40 <sup>2</sup> 20 <sup>2</sup>
200 <sup>4</sup> 200 <sup>4</sup> 200 <sup>4</sup>
LED XHP35 HD
FWHM / FWTM 22.0° / 46.0°
Efficiency 93 %
Peak intensity 3.8 cd/lm
EDs/each optic 1
Light colour White
Required components:
500
30" 500 30"
20 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 20 <sup>2</sup>
CREE \$
CREE LED XHP35 HI TWHM / FWTM 16.0° / 32.0°
CREE \$
CREE LED XHP35 HI FWHM / FWTM 16.0° / 32.0° Efficiency 93 % Peak intensity 8.1 cd/m
CREE ED XHP35 HI FWHM / FWTM 16.0° / 32.0° Efficiency 93 % Peak intensity 8.1 cd/m LEDs/each optic 1
CREE ED XHP35 HI FWHM / FWTM 16.0° / 32.0° Efficiency 93 % Peak intensity 8.1 cd/m LEDs/each optic 1 Light colour White
CREE ED XHP35 HI FWHM / FWTM 16.0° / 32.0° Efficiency 93 % Peak intensity 8.1 cd/m LEDs/each optic 1
CREE ED XHP35 HI WHM / FWTM 16.0° / 32.0° Efficiency 93 % Peak intensity 8.1 cd/lm LEDs/each optic 1 Light colour White Required components:
CREE ED XHP35 HI WHM / FWTM 16.0° / 32.0° Efficiency 93 % Peak intensity 8.1 cd/lm LEDs/each optic 1 Light colour White Required components:



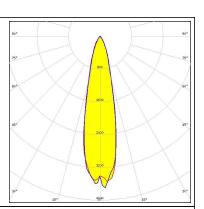
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35.2 26.0° / 48.0° 92 % 3.3 cd/lm 1 White	91 <sup>4</sup> 91
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-E2 11.0° / 26.0° 91 % 14.1 cd/lm 1 White	34° 427 6° 47 30° 6° 30° 6°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 17.0° / 35.0° 93 % 6.9 cd/lm 1 White	30 30 30 30 30 30 30 40 40 40 40 40 40 40 40 40 4
CREE 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	D2      D2      D2        91*      91*      91*        92*      92*      92*        93*      92*      92*        94*      92*      92*        95*      92*      92*



# LUMILEDS

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



# LUMILEDS

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

#### **ΜΝΙCΗΙΛ** LED NV4WB35AM FWHM / FWTM 22.0° / 40.0° Efficiency 94 % Peak intensity 4.8 cd/lm LEDs/each optic 1 Light colour White Required components: OSRAM Opto Semiconductors LED OSCONIQ C 2424 FWHM / FWTM 11.0° / 22.0° Efficiency 93 % Peak intensity 16.6 cd/lm LEDs/each optic 1 White Light colour Required components:



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3030 9.0° / 20.0° 94 % 21.8 cd/lm 1 White	51 <sup>4</sup> 51 <sup>4</sup> 5
		15 0° 15'
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3737 (2W version) 12.0° / 25.0° 89 % 13 cd/lm 1 White	201 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 0, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12
OSDAM		
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3737 (3W version) 19.0° / 37.0° 93 % 6.1 cd/lm 1 White	200 200 200 200 200 200 200 200
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3737 Flat 14.0° / 30.0° 94 % 9.7 cd/lm 1 White	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5



	LH181B	20 <sup>1</sup>
FWHM / FWTM	13.0° / 28.0°	
Efficiency	93 %	2200
Peak intensity	10.8 cd/lm	
LEDs/each optic	1	
Light colour	White	67° 6430 67°
Required components:		
		30° 40° 25° 30°
SAMSUN	IG	50° 50°
LED	LH231B	75"
FWHM / FWTM	16.0° / 32.0°	
Efficiency	93 %	60°
Peak intensity	8.6 cd/lm	
LEDs/each optic	1	ar
Light colour	White	
Required components:		6430
		$\times$ / $\vee$ $\times$
		30° 30°
		15° 0° 15°
SAMSUN	IG	25 <sup>4</sup>
SAMSUN LED	LH351D	<u> </u>
		32*      32*        36*      30*
LED	LH351D	99° 99° 95° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity	LH351D 22.0° / 40.0°	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	75° - 75° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm	6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	75° - 75° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1	73 61* 2000 2000 2000 2000 2000 2000 2000 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: storus semiconductor LED	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: storus semiconductor LED FWHM / FWTM	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0°	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stool. semiconductor LED FWHM / FWTM Efficiency	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 %	75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 % 7.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 % 7.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 % 7.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 % 7.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 % 7.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 22.0° / 40.0° 93 % 4.6 cd/lm 1 White Z8Y22T 15.0° / 33.0° 93 % 7.9 cd/lm 1	



# 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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