

PRODUCT DATASHEET C13749_HB-2X2-O

HB-2X2-O

~20° + 115° oval beam for aisle lighting

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	10.6 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



MATERIALS:

Component HB-2X2-O **Type** Multi-lens

Material	Colour	Finish
PMMA	clear	

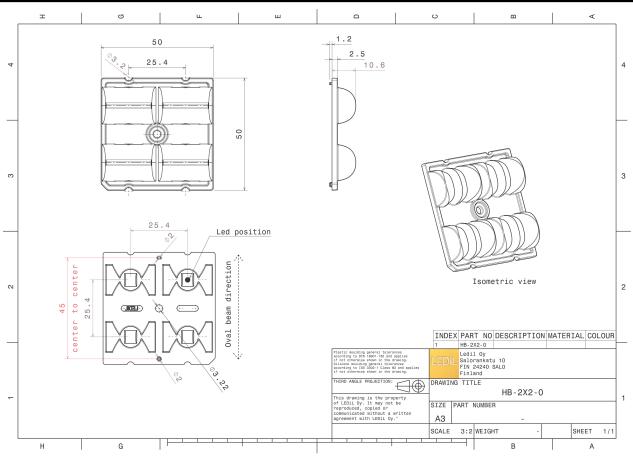
ORDERING INFORMATION:

Component C13749_HB-2X2-O » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	10.4

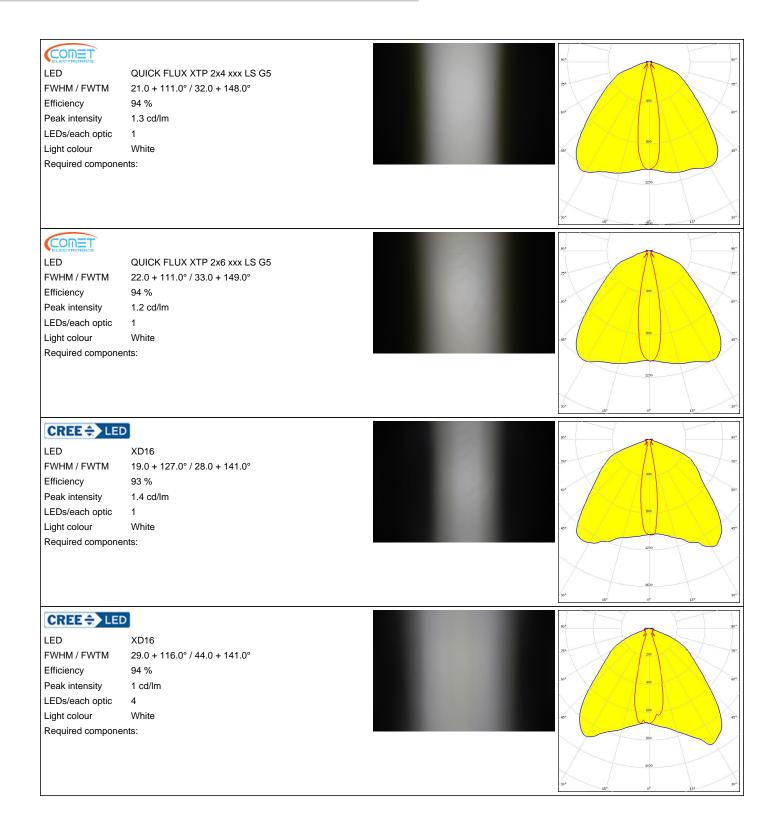


PRODUCT DATASHEET C13749_HB-2X2-O



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





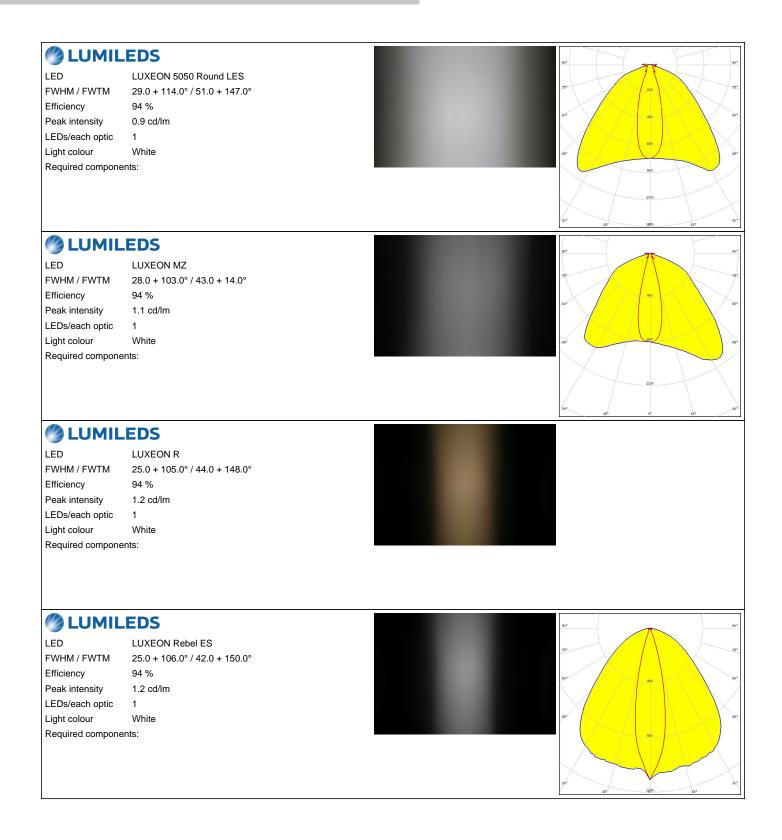


CREE CLEI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP35 HD 29.0 + 117.0° / 48.0 + 148.0° 94 % 0.9 cd/lm 1 White	
	XM-L	90° 10 ¹ 10 ² 10 ² 10 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	28.0 + 108.0° / 45.0 + 142.0° 94 % 1 cd/lm 1 White	
		30° 12 ⁰ 0° 12° 30°
CREE 🔶 LEI		99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone		
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 26.0 + 115.0° / 44.0 + 158.0° 94 % 1.1 cd/lm 1 White	



	D			90°	90*
LED	XP-G2				
FWHM / FWTM	27.0 + 112.0° / 42.0 + 146.0°			750	775
Efficiency	94 %			400	
Peak intensity	1.2 cd/lm			60*	60*
	1				
LEDs/each optic					
Light colour	White			45*	45+
Required compone	ents:				
				1200	
				30° 1600	15* 30*
	D				ÉTT
				90°	90*
LED	XP-L HD			288	
FWHM / FWTM	29.0 + 117.0° / 48.0 + 144.0°				
Efficiency	94 %			400	605
Peak intensity	0.9 cd/lm				\sim 7
LEDs/each optic	1			600	$\sim K$
Light colour	White			450	e5*
Required compone	ents:			800	
				1000	
				30° 1200 15° 0°	15* 30*
				90*	90*
LED	XP-L HI			90'	90°
					90*
LED FWHM / FWTM	XP-L HI			39 ¹	96*
LED FWHM / FWTM Efficiency	XP-L HI 25.0 + 123.0° / 41.0 + 143.0°			9 ¹	94*
LED FWHM / FWTM Efficiency Peak intensity	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm			94° 27 60°	94* 95* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1			94* 27 60* 90 90	2)4 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White			94* 27 64* 400 900	6)* 6)*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White		L	94* 27 64* 90 90	6)* 6)*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White			94° 27° 400 80° 1239	84 92 89 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White			94* 64* 64* 1255	84 92 89 87
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White			20 ⁴ 12 ⁴ 200	27° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents:			94° 64° 69° 99° 1299 1299 1299 1299	<u>17-</u> 60- 60- 60- 60- 60- 60- 60- 60- 60- 60-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents:			94° 64° 69° 99° 99° 1299 1299 1299 1299 1299 1299	<u>12-</u> 64- 65-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents:			94° 64° 69° 99° 99° 99° 99° 99° 99° 99° 99° 99	274 274 274 274 274 274 274 274 274 274
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0°			94° - 64° -	27° 28°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 %			64 ⁴ 400 10 ² 10 ² 1	1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Equired compone	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm			94 64 60 60 120 120 120 120 120 120 120 12	54 54 65 65 67 67 67 67 67 67 67 67 67 67 67 67 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm 1			94 00 00 00 00 00 00 00 00 00 0	2014 1014
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm 1 White				1000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm 1 White				94 94 95 95 95 95 95
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm 1 White			e'	5,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm 1 White			e'	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI 25.0 + 123.0° / 41.0 + 143.0° 94 % 1.1 cd/lm 1 White ents: XP-L2 28.0 + 117.0° / 47.0 + 150.0° 94 % 0.9 cd/lm 1 White			e'	







M LUMIL	EDS	91" 97
LED	LUXEON T	
FWHM / FWTM	26.0 + 110.0° / 41.0 + 145.0°	754 782
Efficiency	94 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		170
		30* <u>16</u> % <u>16</u> % <u>15</u> * <u>30*</u>
	FDS	
		90°
		20
FWHM / FWTM	24.0 + 118.0° / 42.0 + 146.0°	
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	a, ()
Required compone	nts.	
		000
		20° m 20°
	EDS	
		91 ⁴ 97 ⁴
LED	LUXEON V	37°
LED FWHM / FWTM	LUXEON V 26.0 + 108.0° / 44.0 + 141.0°	90° - 92° - 92° - 92°
LED FWHM / FWTM Efficiency	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 %	99 ² 72 ³ 80 ⁴ 48 6 ³
LED FWHM / FWTM Efficiency Peak intensity	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White hts: SST-10-B130	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White hts: NUS SST-10-B130 18.0 + 104.0° / 25.0 + 144.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White hts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 % 1.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 % 1.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 % 1.6 cd/lm 1 Deep Red	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 26.0 + 108.0° / 44.0 + 141.0° 94 % 1 cd/lm 1 White nts: SST-10-B130 18.0 + 104.0° / 25.0 + 144.0° 97 % 1.6 cd/lm 1 Deep Red	



MST Your solut	ions	
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	N°
FWHM / FWTM	23.0 + 99.5° / 32.5 + 145.0°	175
Efficiency	97 %	
Peak intensity	1.2 cd/lm	654
LEDs/each optic	1	
Light colour	White	
Required compone		
		1239
		20° 22° 0° 23°
ØNICHI ∕	L	8*
LED	NCSxx19B	
FWHM / FWTM	23.0 + 113.0° / 39.0 + 146.0°	70
Efficiency	94 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er (
Required compone	nts:	129
		109
A		
ØNICHI		80 [*]
LED	NVSW219D	
FWHM / FWTM	25.0 + 107.0° / 37.0 + 137.0°	
Efficiency	94 %	554
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	67
Required compone		
	nts:	
		90° 10° 10° 10°
ØNICHIA		
	NVSW319B	
NICHIA LED FWHM / FWTM	NVSW319B 25.0 + 113.0° / 41.0 + 144.0°	
ED FWHM / FWTM Efficiency	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 %	
ED FWHM / FWTM Efficiency Peak intensity	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 % 1.1 cd/lm 1	50 ⁻
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 % 1.1 cd/lm 1 White	20 60 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 % 1.1 cd/lm 1 White	50 ⁻
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 % 1.1 cd/lm 1 White	50 ⁻
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B 25.0 + 113.0° / 41.0 + 144.0° 94 % 1.1 cd/lm 1 White	50 ⁻



ØNICHI/		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 24.0 + 119.0° / 38.0 + 144.0° 94 % 1.1 cd/lm 1 White	
EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 25.0 + 134.0° / 43.0 + 147.0° 93 % 0.4 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxE21A 17.0 + 125.0° / 27.0 + 139.0° 94 % 1.7 cd/lm 1	
Light colour Required compone		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19A 24.0 + 105.0° / 44.0 + 148.0° 94 % 1.2 cd/lm 1 White	

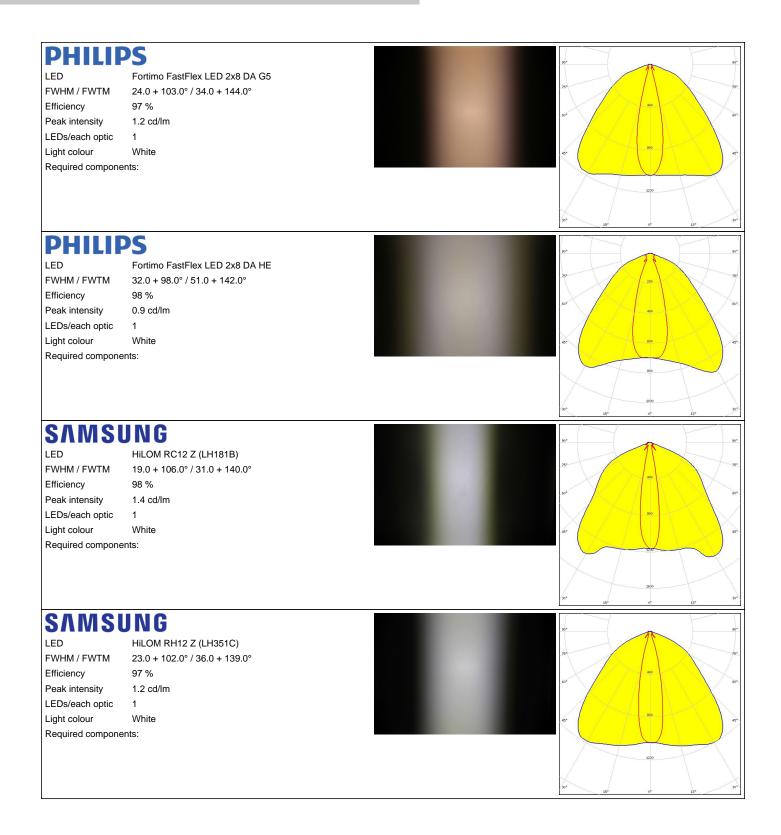


	NVSxx19B/NVSxx19C	80.
FWHM / FWTM	26.0 + 108.0° / 41.0 + 145.0°	73* 75*
Efficiency	94 %	400
Peak intensity	1.2 cd/lm	604
LEDs/each optic	1	
Light colour	White	451 451
Required compone	nts:	
		1200
		30* 30*
		125 1000 12*
		90* 90*
	NWSx229A	73%
FWHM / FWTM	27.0 + 118.0° / 43.0 + 143.0°	
Efficiency	94 % 1 cd/lm	60* 607
Peak intensity	1	
LEDs/each optic Light colour	White	
Required compone		45*
Required compone		
		30* 1200 30* 30*
OSRAM		50°
LED	PL-BRICK HP 3800 2x8 SSG	
FWHM / FWTM	26.0 + 102.0° / 37.0 + 139.0°	73*
Efficiency	97 %	400
Peak intensity	1.2 cd/lm	60°.
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	
		1220
		30* 105 0* 10* 30*
OSRAM		
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	23.0 + 111.0° / 32.0 + 141.0°	75* 76*
Efficiency	94 %	400
Peak intensitv		50° 60°.
Peak intensity LEDs/each optic	1.3 cd/lm 1	60°
LEDs/each optic	1.3 cd/lm 1	67
LEDs/each optic Light colour	1.3 cd/lm 1 White	67 67 67
LEDs/each optic	1.3 cd/lm 1 White	
LEDs/each optic Light colour	1.3 cd/lm 1 White	
LEDs/each optic Light colour	1.3 cd/lm 1 White	

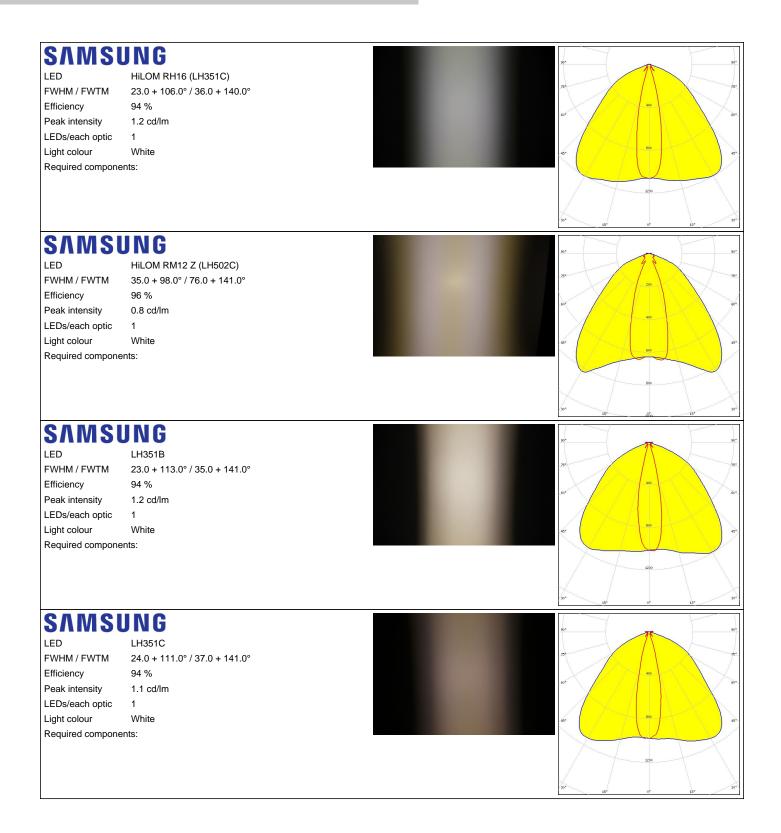


OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	23.0 + 111.0° / 32.0 + 141.0°	72 7
Efficiency	94 %	
Peak intensity	1.3 cd/lm	ent and the second s
LEDs/each optic	1	
Light colour	White	er (1997) er
Required compone	ents:	
		1200
OCDAM		20 ³ 20 ³ 10 ³
OSRAM Opto Semiconductors		50°
LED	OSLON Square PC	
FWHM / FWTM	25.0 + 124.0° / 42.0 + 145.0°	
Efficiency	91 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		1200
DIIII		
PHILIF	' 5	90'
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	21.0 + 108.0° / 31.0 + 147.0°	
Efficiency	94 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30" <u>1600</u> 30"
PHILIF	DS	
		90 ¹ 99
	Fortimo FastFlex LED 2x8 DA G4+	73
FWHM / FWTM	24.0 + 104.0° / 37.0 + 145.0°	
Efficiency	97 %	60 ⁴
Peak intensity	1.1 cd/lm	
LEDs/each optic	1 White	
Light colour		· 6° ·
Required compone	ano.	
		30° 15° 0° 300











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SAMSI	JNG	80 ⁺
LED	LH351D	
FWHM / FWTM	27.0 + 116.0° / 44.0 + 144.0°	751 751
Efficiency	94 %	
Peak intensity	1 cd/lm	60° - 400 - 60°
LEDs/each optic	1	
Light colour	White	
Required compone		
		1220
		30° 15° 0° 15° 30°
SVWSI		
		90° 90°
	LH351Z	754
FWHM / FWTM	26.0 + 117.0° / 42.0 + 141.0°	
Efficiency	94 % 1.1 cd/lm	607
Peak intensity	1.1 cd/im 1	
LEDs/each optic		
Light colour	White	e
Required compone		
		1200
		30° 15° 0° 15° 30°
Elektronik GmbH		
		90* 90*
	LED-Pa-L15c2W11c2-xxx-C050-01	75%
FWHM / FWTM	22.0 + 105.0° / 36.0 + 142.0° 98 %	400
Efficiency	96 % 1.3 cd/lm	604 60
Peak intensity LEDs/each optic	1.3 contri	
Light colour		
Light colour	\A/bito	
	White	
Required compone		
		er la
	ints:	
Required compone secul semiconductor LED	z5M3	
Required compone secul semiconductor LED FWHM / FWTM	Z5M3 23.0 + 113.0° / 39.0 + 146.0°	
Required compone scoul semconductor LED FWHM / FWTM Efficiency	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 %	
Required compone scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm	
Required components stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm 1	
Required components stout stemconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm 1 White	
Required compone stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm 1 White	
Required components stout stemconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm 1 White	
Required compone seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm 1 White	
Required compone ECUL SEMICONDUCTOR ED FWHM / FWTM Efficiency Peak intensity .EDs/each optic .ight colour	Z5M3 23.0 + 113.0° / 39.0 + 146.0° 94 % 1.1 cd/lm 1 White	



SEOUL		
SEOUL SEMICONDUCTOR	Z5M4	90°
LED FWHM / FWTM	22.0 + 97.0° / 35.0 + 135.0°	79
	98 %	
Efficiency Peak intensity	1.3 cd/lm	64
LEDs/each optic	1	
Light colour	White	
Required component		
		1200
		20
		\times / \times /
		30° 15 [°] 1690 23°
SEOUL		
SEOUL SEMICONDUCTOR	Z8Y22	
FWHM / FWTM	21.0 + 121.0° / 99.0 + 140.0°	70 70
Efficiency	94 %	
Peak intensity	1.2 cd/lm	w w
LEDs/each optic	1	
Light colour	White	
Required component		
Required component		
		1220
		30° 15° 0° 15° 30°
SEOUL SEMICONDUCTOR		84
LED	Z8Y22P	
FWHM / FWTM	23.0 + 121.0° / 34.0 + 150.0°	70 70
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60° / / / / / / / / / / / / / / / / / / /
LEDs/each optic	1	
Light colour	White	67 8 0 8 1
Required compone	nts:	
		1220
TOOLUDA		200° 125 ¹ 40° 125°
TOSHIBA Leading Innovation >>>		
LED	TL1L4	
FWHM / FWTM	24.0 + 119.0° / 39.0 + 140.0°	
Efficiency	89 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	



TRIDONIC

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

RLE 2x4 2000lm HP EXC2 OTD 22.0 + 113.0° / 30.0 + 149.0° 94 % 1.3 cd/lm 1 White ents:

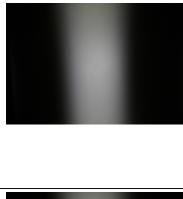
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x8 4000lm HP EXC2 OTD 22.0 + 113.0° / 30.0 + 149.0° 94 % 1.3 cd/lm 1 White	20, 12, 0, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD 23.0 + 104.0° / 31.0 + 144.0° 94 % 1.3 cd/lm 1 White	97 97 70 97 64 65 66 67 66 67 90 97 90 97 90 90 97 90 97 90 97 90 97 90 97 90 97 90 97 90 97 90 97 90 90 90 90 90 90 90 90 90 90 90 90 90
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD 23.0 + 104.0° / 31.0 + 144.0° 94 % 1.3 cd/lm 1 White	97 98 98 98 98 98 98 98 98 98 98



TRIDONIC

LEDRIFWHM / FWTM23Efficiency94Peak intensity1LEDs/each optic1Light colourWRequired components:

RLE G1 49x223mm 4000lm xxx EXC OTD 23.0 + 104.0° / 31.0 + 144.0° 94 % 1.3 cd/lm 1 White



TRIDONIC

LEDRIFWHM / FWTM23Efficiency94Peak intensity1LEDs/each optic1Light colourWRequired components:

RLE G1 49x245mm 4000lm xxx EXC OTD 23.0 + 104.0° / 31.0 + 144.0° 94 % 1.3 cd/lm 1 White





LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 5050 Round LES 30.0 + 97.0° / 51.0 + 141.0° 94 % 1 cd/lm 1 White	99° 72° 60° 60° 60° 60° 60° 60° 60° 60
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35 HI 101.0 + 27.0° / 145.0 + 44.0° 94 % 1.2 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50°
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP50.3 HI 28.0 + 100.0° / 44.0 + 144.0° 95 % 0.9 cd/lm 1 White	30* 30*
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-E2 93.0 + 18.0° / 141.0 + 30.0° 94 % 1.6 cd/lm 1 White	20° 12° 0° 12° 12°



		90° 90°
LED	XP-G2	
FWHM / FWTM	21.0 + 98.0° / 33.0 + 141.0°	
Efficiency	91 %	400
Peak intensity	1.2 cd/lm	60*
LEDs/each optic	1	
Light colour	White	87° 000 87°
Required components:		
riedanea compensioner		
Protective plate	e, glass	
		30* 13 ⁵ 0° 13* 30*
		50° 50°
LED	XP-G2 HE	
FWHM / FWTM	28.0 + 103.0° / 41.0 + 144.0°	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	
Required components:		
		30* 12 ⁵⁰ 30* 30*
		90°
LED	XP-G3	
FWHM / FWTM	103.0 + 29.0° / 146.0 + 49.0°	75°
Efficiency	94 %	400
Peak intensity	1.1 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		1200
		20* 15* 0* 15* 30 ⁴
		20° 10° 10° 20° 90°
	XP-L HD	90° 10° 10° 90°
LED	XP-L HD 26.0 + 103.0° / 42.0 + 140.0°	20° 13° 30° 10° 10° 20° 20° 20°
LED FWHM / FWTM	26.0 + 103.0° / 42.0 + 140.0°	20° 12° 0° 13° 30° 30° 0° 0° 20° 200 7°
LED FWHM / FWTM Efficiency	26.0 + 103.0° / 42.0 + 140.0° 88 %	20* 15* 0* 13* 0* 10* 0* 13* 0* 0* 10* 0* 200 0* 60* 00*
LED FWHM / FWTM Efficiency Peak intensity	26.0 + 103.0° / 42.0 + 140.0° 88 % 0.9 cd/lm	60°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	26.0 + 103.0° / 42.0 + 140.0° 88 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 103.0° / 42.0 + 140.0° 88 % 0.9 cd/lm	60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	26.0 + 103.0° / 42.0 + 140.0° 88 % 0.9 cd/lm 1	60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	26.0 + 103.0° / 42.0 + 140.0° 88 % 0.9 cd/lm 1 White	60 ³ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	26.0 + 103.0° / 42.0 + 140.0° 88 % 0.9 cd/lm 1 White	60 ⁴ 60 ⁴



		30°
LED	XP-L HI	
FWHM / FWTM	22.0 + 98.0° / 34.0 + 140.0°	73%
Efficiency	88 %	400
Peak intensity	1.2 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 890 45*
Required components:	White	45*
required components.		
Protective plate	e, glass	
		1220
		(30" 15" 30 ³
		90° 90°
LED	XP-L2	
FWHM / FWTM	28.0 + 100.0° / 46.0 + 140.0°	75° 200 75°
Efficiency	87 %	
Peak intensity	0.9 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		
Protective plate	e, glass	\times / \times /
		30* 15 ⁵ 0 ⁶ 15* 30 ⁴
LED	XQ-E HI	
FWHM / FWTM	96.0 + 14.0° / 144.0 + 25.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required components:	White	
Required components.		
		90* 90*
LED	XT-E HE	750
FWHM / FWTM	100.0 + 24.0°	
Efficiency	94 %	.60 ⁻⁴
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		30° 15° 30°



M LUMILE	DS	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 5050 HE 30.0 + 98.0° / 52.0 + 140.0° 87 % 0.9 cd/lm 1 White	25 20 63 40 60
Protective pl	ate, glass	
	DS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 5050 Round LES 30.0 + 96.0° / 48.0 + 140.0° 88 % 0.9 cd/lm 1 White	
Protective pl	ate, glass	
	DS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 5050 Square LES 30.0 + 98.0° / 50.0 + 142.0° 95 % 0.9 cd/lm 1 White	
		247 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	LUXEON 5050 Square LES 30.0 + 96.0° / 52.0 + 140.0° 84 % 0.8 cd/lm 1 White	
Protective pl	ate, glass	



	DS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON IR Domed 150 16.0 + 98.0° / 28.0 + 149.0° 94 % 1.4 cd/lm 1 White	
)S	20*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON IR Domed 90 20.0 + 86.0° / 29.0 + 128.0° 95 % 1.6 cd/lm 1 White	20- 0- 12- 20- 0- 12-0 0- 12-0 0- 12-0 0- 0- 0- 0- 0- 0- 0-
	S	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) 28.0 + 102.0° / 42.0 + 140.0° 96 % 1 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON XR-HL2X (L2H2-xxxxxMLU010) 28.0 + 100.0° / 42.0 + 138.0° 86 % 0.9 cd/lm 1 White	



MST Your solutions		
		90* 90*
	RecLED 122x50mm 1900lm 730 2x4 Opt G1	75%
FWHM / FWTM	24.0 + 97.0° / 34.0 + 141.0°	
Efficiency	86 %	50 ⁴ 60
Peak intensity	1.1 cd/lm	
LEDs/each optic		
Light colour	White	45'
Required components:		
Protective plate	e, glass	1320
		30* 15* 0* 15* 30'
MICHIΛ		90* 90
LED	NV4WB35AM	
FWHM / FWTM	28.0 + 100.0° / 42.0 + 144.0°	75 - 75
Efficiency	95 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		800
		\times / \mid \setminus \times
		30* 1220 10 ² 10 ² 10 ⁴ 30*
OSRAM		
Opto Semiconductors	0500110 0 2424	90* 90*
LED FWHM / FWTM	OSCONIQ C 2424 18.0 + 96.0° / 30.0 + 141.0°	75°
	96 %	400
Efficiency		604 60
Peak intensity	1.5 cd/lm	
LEDs/each optic		
Light colour		
	White	45°
Required components:	White	40° (120) (120)
requirea components:	White	6° (
requirea components:	white	
requirea components:	vvnite	20 ³ 0 ⁴ 12 ³ 0 ⁴ 12 ³ 20 100 0 ² 120 1200 0 ² 12 ³ 0 ⁴
OSRAM	vvnite	100 100 100 100 100 100 100 100 100 100
OSRAM Opto Semiconductors		10% 10% 10% 10% 10% 10%
OSRAM Opto Semiconductors LED	OSCONIQ P 3030	20% 20% 20% 20% 20% 20% 20% 20% 20% 20%
OSRAM Opto Semiconductors LED FWHM / FWTM	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0°	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 %	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 % 1.6 cd/m	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 % 1.6 cd/m 1	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 % 1.6 cd/m	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 % 1.6 cd/m 1	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 % 1.6 cd/m 1	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSCONIQ P 3030 14.0 + 92.0° / 28.0 + 142.0° 95 % 1.6 cd/m 1	



OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	99.0 + 19.0° / 142.0 + 31.0°	75°
Efficiency	94 %	400
Peak intensity	1.3 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45'
Required components:		
		1230
		30* 15 ⁵ 0 ⁵ 15 ⁵ 30 ⁴
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	100.0 + 30.0° / 144.0 + 51.0°	754 782
Efficiency	94 %	
Peak intensity	1 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45*
Required components:		80
- 1 1		
		30° 1200 30° 30°
OSRAM Opto Semiconductors		90* 90+
LED	OSCONIQ P 3737 Flat	
FWHM / FWTM	22.0 + 98.0° / 35.0 + 142.0°	75° 75°
Efficiency	96 %	400
Peak intensity	1.2 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45* 800 45*
Required components:		
		20° 15° 0° 15° 50°
OSRAM		90* 90*
Opto Semiconductors		
	OSCONIQ S 5050	
LED	OSCONIQ S 5050 32.0 + 99.0° / 52.0 + 143.0°	754 750 751
LED FWHM / FWTM	OSCONIQ S 5050 32.0 + 99.0° / 52.0 + 143.0° 96 %	29 . 20 . 75
LED FWHM / FWTM Efficiency	32.0 + 99.0° / 52.0 + 143.0° 96 %	20 20 67
LED FWHM / FWTM Efficiency Peak intensity	32.0 + 99.0° / 52.0 + 143.0°	200 72 60° - 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	32.0 + 99.0° / 52.0 + 143.0° 96 % 0.8 cd/lm 1	200 200 80 ⁴ 400 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	32.0 + 99.0° / 52.0 + 143.0° 96 % 0.8 cd/lm	25 - 200 - 27 64
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	32.0 + 99.0° / 52.0 + 143.0° 96 % 0.8 cd/lm 1	20 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	32.0 + 99.0° / 52.0 + 143.0° 96 % 0.8 cd/lm 1	20 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	32.0 + 99.0° / 52.0 + 143.0° 96 % 0.8 cd/lm 1	20 60 ³ 60 ³ 60 ⁴ 60 60 ⁴ 60 60 ⁴ 60 ⁴



CODAN		
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ S 5050	
FWHM / FWTM	32.0 + 98.0° / 53.0 + 140.0°	75°
Efficiency	85 %	
Peak intensity	0.8 cd/lm	6°*
LEDs/each optic	1	400
Light colour	White	45*
Required components:		
Protective plate	e, glass	80
		30° 15 ⁵ 0° 15° 30°
OSRAM Opto Semiconductors		50° - 30°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	23.0 + 101.0° / 33.0 + 140.0°	75*
Efficiency	85 %	400
Peak intensity	1.1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Protective plat	e, glass	1200
		30* 15 ⁵ 0* 15* 30*
OSRAM		
Opto Semiconductors		90° 90°
Opto Semiconductors	OSLON Square Flat	
Opto Semiconductors LED FWHM / FWTM	OSLON Square Flat 16.0 + 90.0° / 30.0 + 140.0°	30 ⁴
opto Semiconductors LED FWHM / FWTM	OSLON Square Flat 16.0 + 90.0° / 30.0 + 140.0° 96 %	
opto Semiconductors LED FWHM / FWTM Efficiency	16.0 + 90.0° / 30.0 + 140.0° 96 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	16.0 + 90.0° / 30.0 + 140.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1	57 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1	57 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1	32 60 06
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1	57 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: POSRAM Opto Semiconductors	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LEDS/each optic Light colour Required components:	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx)	27 60 00 120 120 120
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0°	30. 30. 30. 30. 25. 40. 60. 60. 60. 900 60. 60. 53. 60. 60. 60.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak Opto Semiconductors LED FWHM / FWTM Efficiency	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 %	30. 30. 30. 30. 25. 40. 60. 60. 60. 900 60. 60. 53. 60. 60. 60.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Posseas Des Semiconductors LED FWHM / FWTM Efficiency Peak intensity	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 % 1.7 cd/lm	30. 30. 30. 30. 25. 40. 60. 60. 60. 900 60. 60. 53. 60. 60. 60.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 % 1.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 % 1.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 % 1.7 cd/lm 1	30. 30. 30. 30. 25. 40. 60. 60. 60. 900 60. 60. 53. 60. 60. 60.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 % 1.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0 + 90.0° / 30.0 + 140.0° 96 % 1.6 cd/lm 1 White OSTAR Projection Compact (Kx.CSLNM1.xx) 16.0 + 89.0° / 28.0 + 140.0° 96 % 1.7 cd/lm 1	



PHILIPS		90°
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	103.0 + 29.0° / 146.0 + 49.0°	75 75
Efficiency	94 %	400
Peak intensity	1.1 cd/lm	635 60
LEDs/each optic	1	
Light colour	White	40° () () () () () () () () () (
Required components:		
		1200 30° 30°
SAMSU		13 ² 0 ⁶ 15 ⁴
		90* 90*
LED	HiLOM RM12 Z (LH502C)	770
FWHM / FWTM	36.0 + 98.0° / 78.0 + 140.0°	- 200
Efficiency	89 %	66* 60*
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Protective plat	e, glass	200
		30* 15 ⁵ 0° 10* 0°
SEOUL		
SEOUL SEMICONDUCTOR	MJT 5050	
FWHM / FWTM	32.0 + 98.0° / 52.0 + 142.0°	75° 75°
Efficiency	94 %	- 200
Peak intensity	0.8 cd/lm	604 644
LEDs/each optic	1	400
Light colour	White	
Required components:		
		0/0
		30* 15 ⁵ 1890 15* 30*
		90* 90*
LED	SEOUL DC 5050 6V	
FWHM / FWTM	33.0 + 98.0° / 58.0 + 143.0°	75* 700
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60*
LEDs/each optic	1	
Light colour	White	5
Light colour		600
Required components:		
		00



stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z5M1/Z5M2 22.0 + 97.0° / 34.0 + 142.0° 94 % 1.2 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z8Y22T 21.0 + 96.0° / 33.0 + 141.0° 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	RLE 2x8 4000lm HP EXC2 OTD 22.0 + 100.0° / 32.0 + 142.0° 84 % 1 cd/lm 1 White	<u> </u>
Protective pla	e, glass	



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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