

PRODUCT DATASHEET C14605_HB-2X2-RW

HB-2X2-RW

 ${\sim}50^\circ$ wide beam optimized for CREE XP-L and XM-L

TECHNICAL SPECIFICATIONS:

Dimensions	50.0 x 50.0 mm
Height	8.5 mm
Fastening	pin, screw
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

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

Material	Colour	Finish
PMMA	clear	

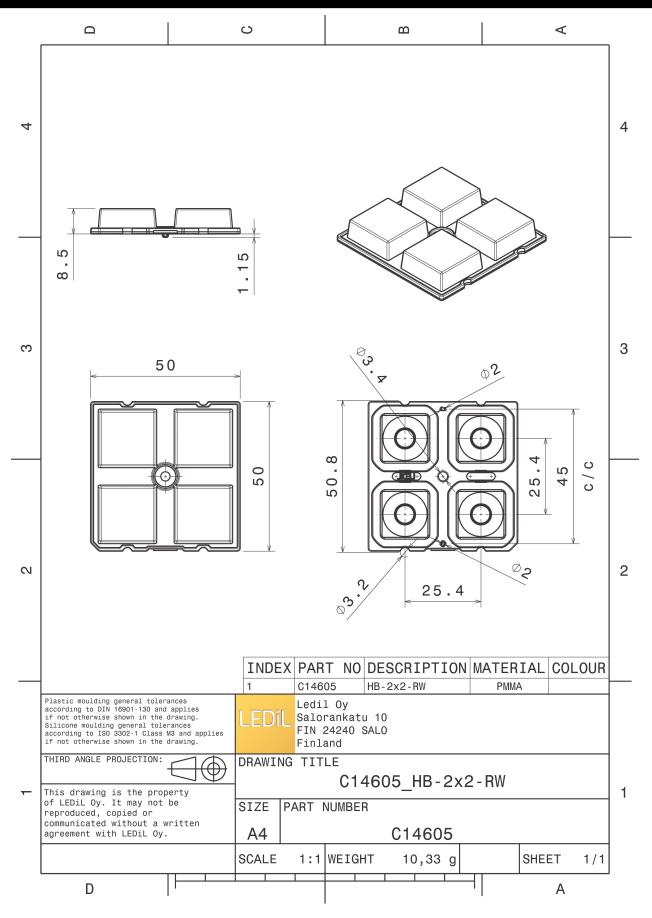
ORDERING INFORMATION:

Component

C14605_HB-2X2-RW » Box size: 476 x 273 x 292 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	9.1

PRODUCT DATASHEET C14605_HB-2X2-RW



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Bridgelux SMD 5050 56.0° / 89.0° 94 % 0.9 cd/lm 1 White hts:	5°. 60 6°. 60 6°. 6°. 60 6°. 6°. 60 6°. 6°. 6°. 6°. 6°. 6°. 6°. 6°.
CREE LED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XD16 54.0° / 85.0° 92 % 0.9 cd/lm 4 White	50° 50° 50° 50° 50° 50° 50° 50°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XD16 44.0° / 71.0° 90 % 1.4 cd/lm 1 White	90° 90° 90° 00° 90° 00° 1200 120
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XHP35 HD 53.0° / 82.0° 84 % 1 cd/lm 1 White	



			90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L3 52.0° / 79.0° 95 % 1.1 cd/lm 1		75 75 64
Light colour	White		gr at
Required component	its:		30 ⁴ 12 ¹ / ₁ 10 ⁵ / ₁ 20 ⁴
		A REAL PROPERTY.	50° 50'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 45.0° / 73.0° 94 % 1.4 cd/lm 1 White		23 60 61 60 60 60 60 60 60 60
Required componen			
			90° 90°
LED	XP-G3		23*
FWHM / FWTM Efficiency	48.0° / 75.0° 86 %		
Peak intensity	1.2 cd/lm		60° 60°
LEDs/each optic	1		$ \times // \wedge \times $
Light colour	White		gr ² 65'
Required component	ıts:		20° 123° 0° 12° 20°
			90* 90
LED	- XP-L HI		
FWHM / FWTM	45.0° / 72.0°		
Efficiency	92 %		60° 60°
Peak intensity	1.3 cd/lm		$ \times / / \times $
LEDs/each optic	1		
Light colour Required componer	White		
rxequirea componei	nə.		200 30 ⁴ 157 0 ⁴ 157



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 52.0° / 83.0° 92 % 1 cd/lm 1 White	27 27 27 27 27 27 27 27 27 27
WHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES 55.0° / 87.0° 94 % 1 cd/lm 1 White	27
EUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V 52.0° / 81.0° 93 % 1.1 cd/lm 1 White	20 20 20 20 20 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SST-10-B130 44.0° / 70.0° 96 % 1.5 cd/lm 1 Deep Red	20° 12° 0° 12° 20° 12° 50° 5° 50°



MST Your solu	tions	30'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 46.0° / 72.5° 97 % 1.4 cd/lm 1 White ents:	
ØNICHI/		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 49.0° / 76.0° 96 % 1.3 cd/lm 1 White	
ØNICHI/		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 48.0° / 76.0° 94 % 1.2 cd/lm 1 White ents:	
ED FWHM / FWTM	NVSW319B 50.0° / 79.0° 94 %	50°
Peak intensity LEDs/each optic Light colour	1.2 cd/lm 1 White	¢, 40 6
Required compone	กเร:	30+ 12- 0+ 12- 2



ØNICHI/	N Contraction of the second seco	50*
LED	NVSW3x9A	
FWHM / FWTM	50.0° / 78.0°	
Efficiency	93 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr a
Required compone	ents:	
		30* 500 30
OSRAN	4	
		90* 99
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	49.0° / 72.0°	
Efficiency	94 %	60°
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		200
		30° 30°
OSRAM Opto Semiconductors		8 ³
LED	Duris S8	
FWHM / FWTM	56.0° / 89.0°	
Efficiency	95 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	or and a second s
Required compone	ents:	
		314 34
OSRAM		10 ¹ 10 ¹ 10 ¹
Opto Semiconductors		
LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 49.0° / 72.0°	
Efficiency	49.0° / 72.0° 94 %	
		we have a second s
Peak intensity LEDs/each optic	1.3 cd/lm 1	
	1 White	
Light colour Required compone		
Required compone	fino.	
		- 309
		30 ⁰ 25 ⁷ 0 ¹ 25 ⁷



PHILI	DS	50 ⁴ 94 ³
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	45.0° / 71.0°	
Efficiency	93 %	
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required compone		
		12 ² 0 ² 12 ²
PHILIP	25	90* 90
LED	Fortimo FastFlex LED 2x8 DA G4+	7
FWHM / FWTM	48.0° / 77.0°	
Efficiency	96 %	en
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		120
		30* 30* 30*
SAMSI	UNG	90°
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	41.0° / 71.0°	77
Efficiency	97 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er a
Required compone		
		30* 2000 30
<u></u>		*uu \$0 (22
SAMS	JNG	80°
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	48.0° / 75.0°	
Efficiency	96 %	ep
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		1270
		30*
		<u>159</u> 00 35°



SAMSI	UNG	99°
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	48.0° / 75.0°	
Efficiency	94 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		120
		30 ⁻ 30
SAMSI	UNG	90 ¹
LED	HiLOM RM12 Z (LH502C)	
FWHM / FWTM	55.0° / 88.0°	72 72
Efficiency	95 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30* 2000 30
SЛМS		
		50°
LED FWHM / FWTM	HiLOM RM16 Z (LH502C) 55.0° / 89.0°	72 72
Efficiency	96 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		20- 200 20
<u> </u>		225 64 225
		90 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30
	HiLOM RM8 Z (LH502C)	
LED FWHM / FWTM	HiLOM RM8 Z (LH502C) 56.0° / 88.0°	32 ⁵ 6 ³ 32 ⁵
LED FWHM / FWTM Efficiency	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 %	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm	32 3 36 3 122 6 122
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm 1	25 ⁻ 6 ² 25 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm 1 White	32 3 36 3 122 6 122
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm 1 White	25 ⁻ 6 ² 25 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM8 Z (LH502C) 56.0° / 88.0° 97 % 1 cd/lm 1 White	25 ⁻ 6 ² 25 ⁻



LED LH351B FWHM / FWTM 45.0° / 74.0° Efficiency 86 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 86 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White	400
Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White	
LEDs/each optic 1 Light colour White	
Light colour White	
	800
Required components:	
	$ / \times$
	1230
	0° 32°
SAMSUNG	,
LED LH351D	
FWHM / FWTM 49.0° / 82.0°	400
Efficiency 94 %	$\langle A A \rangle$
LEDs/each optic 1	$X \cap X$
Light colour White	
Required components:	800
30*	1200 3 0° 15°
SAMSUNG	
LED LH508A	$\Delta \Delta \Delta$
FWHM / FWTM 56.0° / 87.0°	200
	$(\land \land \land \land \checkmark)$
	460
Efficiency 93 % Peak intensity 1 cd/lm	5 500 T
Efficiency 93 % Peak intensity 1 cd/lm	40
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1	400 - 400 -
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components:	
Efficiency 93 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01	
Efficiency 93 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0°	
Efficiency 93 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0° Efficiency 96 %	100
Efficiency 93 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0° Efficiency 96 % Peak intensity 1.3 cd/m	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0° Efficiency 96 % Peak intensity 1.3 cd/lm LEDs/each optic 1	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0° Efficiency 96 % Peak intensity 1.3 cd/lm LEDs/each optic 1	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0° Efficiency 96 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 93 % Peak intensity 1 cd/lm LEDs/each optic 1 Light colour White Required components: LED LED-Pa-L15c2W11c2-xxx-C050-01 FWHM / FWTM 47.0° / 76.0° Efficiency 96 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White	



SEOUL		
seoul semiconductor	2x2 Y22 module - SMJQ-D48W16AA-XX	25. 26, 26,
FWHM / FWTM	54.0° / 94.0°	200
Efficiency	92 %	60° 60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour Required componer	White	
Required componen		94+ 15 ⁻ 0 ⁺ 15 ⁻
SEOUL		90° 90°
	75.00	
LED FWHM / FWTM	Z5M3 47.0° / 75.0°	75.
Efficiency	47.0° / 75.0° 94 %	
Peak intensity	94 % 1.3 cd/lm	60°
LEDs/each optic	1	$ \times / / \times \times $
Light colour	White	43, 43,
Required componer		
		20% 12% 12% 34*
SEOUL SEMICONDUCTOR		90° 90°
LED	Z5M4	
FWHM / FWTM	49.0° / 76.0°	
Efficiency	96 %	60° 60°
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required component	nts: ■	90° 120 20°
SEOUL		90* 90*
SEOUL SEMICONDUCTOR	Z8Y19	
LED FWHM / FWTM	54.0° / 94.0°	73* 75*
Efficiency	92 %	
Peak intensity	0.8 cd/lm	60 60
LEDs/each optic	4	
Light colour	White	ga* at
Required componer		200 200 200



seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y19 54.0° / 94.0° 92 % 0.8 cd/lm 4 White ents:	
seous semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22P 48.0° / 77.0° 92 % 1.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x4 2000lm HP EXC2 OTD 46.0° / 71.0° 94 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x8 4000lm HP EXC2 OTD 46.0° / 71.0° 94 % 1.4 cd/lm 1 White	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	30° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x223mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x245mm 4000lm xxx EXC OTD 46.0° / 73.0° 94 % 1.4 cd/lm 1 White	



		90°
LED	XHP35 HI	
FWHM / FWTM	52.0° / 68.0°	73*
Efficiency	93 %	400
Peak intensity	1.4 cd/lm	60°
LEDs/each optic	1	
Light colour	White	97 ⁴ 800 43°
Required components:		
		1200
		30° 30°
		135 0° 15*
		90° 90°
LED	XM-L	25*
FWHM / FWTM	54.0° / 74.0°	
Efficiency	92 %	400 - 60"
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	67° 67°
Required components:		
		30°
		90* 90*
		90°
LED	XP-L HD	37 37 38 39 39
LED FWHM / FWTM	55.0° / 79.0°	5 ¹ 5 ¹
LED FWHM / FWTM Efficiency	55.0° / 79.0° 93 %	99 ⁴ 99 ⁴ 75 ⁷ 69 ⁴ 400 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity	55.0° / 79.0° 93 % 1.1 cd/lm	59° 59° 75° 59° 69° 400 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 79.0° 93 % 1.1 cd/lm 1	5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹ 5 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 79.0° 93 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 79.0° 93 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 79.0° 93 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 79.0° 93 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White S LUXEON HL2X	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White S LUXEON HL2X 50.0° / 76.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: VOLUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	55.0° / 79.0° 93 % 1.1 cd/lm 1 White V S LUXEON HL2X 50.0° / 76.0° 94 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White V S LUXEON HL2X 50.0° / 76.0° 94 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White V S LUXEON HL2X 50.0° / 76.0° 94 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	55.0° / 79.0° 93 % 1.1 cd/lm 1 White	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



UMILEC	S	30*
LED	LUXEON HL2X-P	75
FWHM / FWTM	54.0° / 80.0°	
Efficiency	94 %	600
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		30 ⁴ 15 ³ 0 ⁶ 15 ⁴
	S	9° A
LED	LUXEON HL2Z	
FWHM / FWTM	46.0° / 66.0°	77
Efficiency	94 %	601
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	94
Required components:		1200
		30*
Μ ΝΙCΗΙΛ		
LED	NV4WB35AM	
FWHM / FWTM	56.0° / 74.0°	73
Efficiency	95 %	ret la
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour		45°
	White	
Required components:	White	
	White	
	White	
	White	260 20' 20' 20'
Required components: OSRAM	White	20°
Required components:		000 30 ⁴ 20 ⁵ 20 ⁵ 20 ⁵
Required components: OSRAM Opto Semiconductors LED	Duris S8	<u>3</u> ,
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Duris S8 57.0° / 83.0°	84
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Duris S8 57.0° / 83.0° 90 %	<u>3</u> ,
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Duris S8 57.0° / 83.0°	35
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Duris S8 57.0° / 83.0° 90 % 1 cd/lm	35
Required components:	Duris S8 57.0° / 83.0° 90 % 1 cd/lm 1	90°
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S8 57.0° / 83.0° 90 % 1 cd/lm 1 White	<u>3</u> ,
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Duris S8 57.0° / 83.0° 90 % 1 cd/lm 1 White	<u>3</u> ,



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ C 2424 45.0° / 62.0° 96 % 1.9 cd/lm 1 White	22, 0, 22, 0, 22, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25
OSRAM		90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3030 42.0° / 64.0° 96 % 2 cd/lm 1 White	20 0 0 0 0 0 0 0 0 0 0 0 0 0
OSRAM Opto Semiconductors		90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3737 (2W version) 45.0° / 68.0° 96 % 1.7 cd/lm 1 White	25 40 64 64 120 120 120 120 120 120 120 120
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 3737 (3W version) 52.0° / 72.0° 94 % 1.4 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20



OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 Flat	
FWHM / FWTM	50.0° / 68.0°	75°
Efficiency	96 %	400
Peak intensity	1.4 cd/lm	60°
LEDs/each optic	1	
Light colour	White	47° 860 43°
Required components:		- 122
		30* 229 0* 135* 31.*
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square Flat	
FWHM / FWTM	43.0° / 64.0°	75* 75*
Efficiency	96 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	63° 63°
Required components:		
		39-
OSRAM Opto Semiconductors		90 ⁴
LED	OSTAR Projection Compact (Kx.CSLNM1.xx)	
FWHM / FWTM	42.0° / 64.0°	75* 400
Efficiency	96 %	
Peak intensity	1.8 cd/lm	BP BP
LEDs/each optic	1	
Light colour	White	5° 65°
Required components:		30 ⁴ 15 ⁵ 0 ⁴ 15 ⁴
PHILIPS		904 904
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	51.0° / 73.0°	73*
Efficiency	94 %	
Peak intensity	1.3 cd/lm	60°
LEDs/each optic	1	$ \times // \to \times $
Light colour	White	er er
Required components:		



SAMSU	NG	5)* 50*
LED	HiLOM RM16 Z (LH502C)	
FWHM / FWTM	56.0° / 90.0°	75
Efficiency	89 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required components	s:	
Protective pl	ate, glass	
		20 ¹⁰ 20
SEOUL		90*
LED	SEOUL DC 5050 6V	
FWHM / FWTM	54.0° / 79.0°	
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr ar
Required components	52	
		50 ⁴ 90 ⁴
	Z8Y22T	
FWHM / FWTM	51.0° / 69.0°	33
Efficiency	94 %	60 ⁴ - 400 - ext
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required components	5	22%



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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