

STRADA-IP-2X6-DWC

Universal road lighting (IESNA Type II medium) beam with excellent mixed illuminance and luminance uniformity.

SPECIFICATION:

Dimensions	173.0 x 71.4 mm
Height	9 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

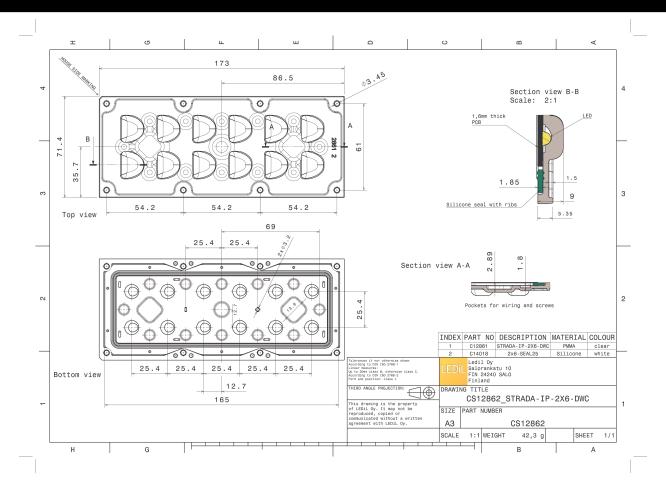


MATERIALS:

Component	Туре	Material	Colour	Finish
STRADA-IP-2X6-DWC	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS12862_STRADA-IP-2X6-DWC	Multi-lens	120	40	40	6.8
» Box size: 476 x 273 x 247 mm					



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



		991
LED	QUICK FLUX 2x6 LED XG xxx G7+	
FWHM / FWTM	Asymmetric	751
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	40
Light colour	White	6° 67
Required compone		200
		50° 15° 50°
		90°
LED	QUICK FLUX 2x6 LED XT xxx G5	
FWHM / FWTM	Asymmetric	751
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45° 65'
Required compone	nts:	640
		00
		30* 30* 30*
		50* 50*
LED	XP-L2	
FWHM / FWTM	Asymmetric	754 200 752
Efficiency	94 %	
Peak intensity	0.4 cd/lm	sur interview.
LEDs/each optic	1	
Light colour	White	57 40 57
Required compone	nts:	
		540
		6/0
		30° 30'
:		20 20 20 20 20 20 20 20 20 20 20 20 20 2
		90*
LED	EHP-2x6-IP-3535	
FWHM / FWTM	Asymmetric	751 250
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	$ \times / / \top \setminus \times $
Light colour	White	a, a,
Required compone	nts:	
		80
		30* 30*



		90* 90'
LED	EHP-2x6-IP-5050	7
FWHM / FWTM	Asymmetric	73°
Efficiency	96 %	
Peak intensity	0.5 cd/lm	60° 80'
LEDs/each optic	1	
Light colour	White	
Required componer		400 457
Required componer	no.	500
		X/T/X
		600
		30° 15° 0° 15° 30'
UMIL	EDS	THA FHI
		90* 90'
LED	LUXEON 5050 Round LES	75%
FWHM / FWTM	Asymmetric	
Efficiency	94 %	604 200 for
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	30
Light colour	White	45* 400 45
Required componer	nts:	
		540
		30° 300
	EDS	10. 0. 10.
		90* 90'
LED	LUXEON R	
LED FWHM / FWTM	LUXEON R Asymmetric	94* 997 73* 200 72
LED FWHM / FWTM Efficiency	LUXEON R Asymmetric 96 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON R Asymmetric 96 % 0.6 cd/lm	94* 997 73* 200 72 60* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON R Asymmetric 96 % 0.6 cd/lm 1	92 ⁴ 99 93 ⁴ 000 72 61 ⁴ 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White	5 ²⁴ 5 ²⁴ 5 ¹⁴ 6 ¹⁴ 6 ¹⁶ 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White	50 ² 50 50 ² 50 60 ² 60 60 60 60 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White	92* 93* 93* 95* 96* 96* 96* 96* 96* 96* 96* 96* 96* 96
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White	50° 000 C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White tts: EDS LUXEON Rebel ES Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON Rebel ES Asymmetric 96 %	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Equired componer VELUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Equired componer Component Required componer Equired componer Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Equired componer VELUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Equired componer Component Required componer Equired componer Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Equired componer Component Required componer Equired componer Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Equired componer Component Required componer Equired componer Required componer	LUXEON R Asymmetric 96 % 0.6 cd/lm 1 White hts:	30*



🤭 LUMIL	EDS	90* 90*
LED	LUXEON T	
FWHM / FWTM	Asymmetric	73%
Efficiency	95 %	
Peak intensity	0.6 cd/lm	404 × 104
LEDs/each optic	1	460
Light colour	White	451 451
Required compone		600
		200
		30* 30* 30*
UMIL	EDS	50° 50°
LED	LUXEON V	7
FWHM / FWTM	Asymmetric	200 271*
Efficiency	92 %	200
Peak intensity	0.5 cd/lm	- 60 ⁴
LEDs/each optic	1	
Light colour	White	6°
Required compone	nts:	200
		60
		760
		30° 135° 860 15° 800
UMIL	EDS	90* 90*
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	.6'
Required compone	nts:	600
		\times
		800
		30° 30°
ØNICHI		
		90* 90*
LED	NVSW219D	73%
FWHM / FWTM	Asymmetric	
Efficiency	94 %	604 604
Peak intensity	0.5 cd/lm	40
LEDs/each optic	1	$\times / / \top \setminus \times$
Light colour	White	6° 61
Required compone	IIS.	660
		\times
		940
		30° 15° 30°



N		
Ø NICHI∧		90* 90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50° 604
LEDs/each optic	1	460
Light colour	White	51
Required compone		60
		30* <u>15</u> * 0 [*] 15* 30*
∕∕ NICHI∧		THY EFT
		90* 90*
	NVSW319B	750 100 75°
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	504 504
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 500 45*
Required compone	nts:	800
		Tree
		30* 300
Mauguna		
ØNICHI		90° 90°
	NVSW3x9A	90 ⁺
		9 ¹⁰ 9 ²
LED	NVSW3x9A	20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM	NVSW3x9A Asymmetric	55° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency	NVSW3x9A Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW3x9A Asymmetric 94 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White	40 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts:	50° (0° (0° (0° (0° (0° (0° (0° (0° (0° (
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm	50° (0° (0° (0° (0° (0° (0° (0° (0° (0° (
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.5 cd/lm 1 White nts: NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White	90 90 90 90 90 90 90 90 90 90 90 90 90 9



MNICHIA		90* 90*
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.6 cd/lm	bit
LEDs/each optic	1	460
Light colour	White	6° 6°.
Required componer	ts:	
		\times
		300
		300
000044		
OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	7
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45° 65°
Required componer	ts:	40
		500
		X T X
		500 30°
000044		125 ³ 0 ⁶ 13 ⁶
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square PC	7
FWHM / FWTM	Asymmetric	75* 200
Efficiency	96 %	
Peak intensity	0.6 cd/lm	50°
LEDs/each optic	1	\times / / \top / \times
Light colour	White	65° 63°
Required componer	IS:	
Required componer	15:	
Required componer	15:	00
Required componer	15:	
SAMSU	NG	94"
SAMSU LED	IN G LH351Z	10 ²
SAMSU LED FWHM / FWTM	LH351Z Asymmetric	10 ²
SAMSU LED FWHM / FWTM Efficiency	LH351Z Asymmetric 94 %	10 ² 0 ⁴ 10 ⁴
SAMSU LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 0.6 cd/lm	10 ² 0 ⁴ 10 ⁴
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 0.6 cd/lm 1	20 ¹ 20 ¹ 10 ¹
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NG LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	10 ² 0 ⁴ 10 ⁴
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NG LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	20 ¹ 20 ¹ 10 ¹ 10 ¹
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NG LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	20 ¹ 20 ¹ 10 ¹
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NG LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	20 ¹ 20 ¹ 10 ¹
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NG LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	20 ¹ 20 ¹ 10 ¹ 10 ¹



SCIO	LUX	50° 50°
LED	ROY-S26XPL2 (XP-L2)	
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.4 cd/lm	.60* 60*
		\times
LEDs/each optic	1	
Light colour	White	6' G
Required compone	nts:	
		30* 700 30* 35*
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	SMJQ-D36W12Mx	
FWHM / FWTM	Asymmetric	200 - 75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	400 400
LEDs/each optic	1	$\times / / \top \setminus \times$
Light colour	White	45* 45
Required compone	nts:	
		80
		300 300
		13 ⁵ 1090 15 ⁴ 30 ⁵
		90* 90*
LED	SMJQ-D36W12Px	
FWHM / FWTM	Asymmetric	75* 78*
Efficiency	94 %	100 - Contraction of the contrac
Peak intensity	0.5 cd/lm	.60 ⁴ 300 60.4
LEDs/each optic	1	400
Light colour	White	45° 500 45 ⁺
Required compone	nts:	
		600
		700
		200
		/30° 30°
		15 00 15*
SECUL		
SEOUL SEMICONDUCTOR	75140	12 ² 2 ² 42 ³
seoul semiconductor	Z5M3	19 ² 2 ⁴ 19 ² 99 ⁴ 99 ⁵ 200 78 ⁵
seoul semiconductor LED FWHM / FWTM	Asymmetric	90°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 94 %	90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm	200 200 200 200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	27 ³ 200 25 ² 200 25 ³ 200 26 ³ 200 60 ⁴ 200 60 ⁴
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	200 200 200 200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White	27 ³ 200 27 ² 200 27 ² 200 200 27 ² 200 200 27 ² 200 200 200 200 200 200 200 200 200 200 200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	27 ² 200 27 ² 200 27 ² 200 200 27 ² 200 60 ⁴
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	27 ² 200 27 ² 200 27 ² 200 200 27 ² 200 60 ⁴
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	27 ² 200 27 ² 200 27 ² 200 200 27 ² 200 60 ⁴



SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Z8Y22 Asymmetric 94 % 0.6 cd/lm 1 White tts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM	Z8Y22P Asymmetric	94 [*] 99 [*] 24 [*] 10 29 [*] 20
Efficiency	94 % 0.5 cd/lm	50* 300 50.4
Peak intensity LEDs/each optic	1	
Light colour	White	45" 50 45"
Required componer		90 90 70 91 91 92 91 91 91 91 91 91 91 91 91 91 91 91 91
TOSHIBA Leading Innovation >>>		9/* 9/*
LED	TL1L4	
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	50 ⁴ (0.1
Peak intensity LEDs/each optic	0.6 cd/lm	40
LEDS/each optic	1 White	40°
Required componer		× 00 ~ ~
		30 ⁴ 22 ³ 5000 25 ⁴ 30 ⁴



	90*
LED J Series 5050 Round LES	75 100 75'
FWHM / FWTM Asymmetric	
Efficiency 94 %	501 501
Peak intensity 0.4 cd/lm	
LEDs/each optic 1	
Light colour White	-07 400
Required components:	
	500
	50° 50°
CREE ÷	
	50° 50°
LED J Series 5050B 6V K Class	
FWHM / FWTM Asymmetric	
Efficiency 98 %	200 604
Peak intensity 0.4 cd/lm	
LEDs/each optic 1	
Light colour White	67 da 67
Required components:	\times \top \times
	500
	15° 0° 15°
	97. 97
CREE ↔ LED J Series 5050B 6V K Class	90°
LEDS	90* 97* 724 100 72
LED J Series 5050B 6V K Class	91* 92* 200 92*
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 %	90° - 90° 73° - 100 60° - 100
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm	90* 724 64* 900 64*
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1	97* 98* 93* 95* 900 900 90* 90* 90* 90* 90* 90* 90* 90
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Vertice	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component in the second	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass	
LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass LED XB-D	
LEDs LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREE€ LED XB-D FWHM / FWTM Asymmetric	
LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREEES LED XB-D FWHM / FWTM Asymmetric Efficiency %	
LEDs J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREEES LED XB-D FWHM / FWTM Asymmetric Efficiency % Peak intensity 0.5 cd/lm	
LEDs J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREE € LED XB-D FWHM / FWTM Asymmetric Efficiency % Peak intensity 0.5 cd/lm LEDs/each optic 1	
LEDS LED J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass ECECES LED XB-D FWHM / FWTM Asymmetric Efficiency % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
LEDs J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREE € LED XB-D FWHM / FWTM Asymmetric Efficiency % Peak intensity 0.5 cd/lm LEDs/each optic 1	
LEDs J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREE € LED XB-D FWHM / FWTM Asymmetric Efficiency % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
LEDs J Series 5050B 6V K Class FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: Protective plate, glass CREE € LED XB-D FWHM / FWTM Asymmetric Efficiency % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	



LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
)S	
		90*
LED	LUXEON 5050 Square LES	750 100 750
FWHM / FWTM	Asymmetric	
Efficiency	94 %	604 604
Peak intensity	0.4 cd/lm	
LEDs/each optic Light colour	1 White	
Required components:	white	45* 400 45*
Required components:		X/T/X
		500
		30* 15 ⁵ 0 ⁶ 15* 30*
)S	84
LED	LUXEON H50-2	
FWHM / FWTM	Asymmetric	75°
Efficiency	90 %	
Peak intensity	0.5 cd/lm	50° 50°
LEDs/each optic	1	400
Light colour	White	45*
Required components:		
		\times / \times
		800
		30* 30* 30*
)S	
		90* 90*
LED FWHM / FWTM	LUXEON TX	750 750
	Asymmetric 89 %	200
Efficiency Peak intensity	89 % 0.5 cd/lm	60* 60*
LEDs/each optic	0.5 cd/lm 1	40
LEDs/each optic	1 White	
Light colour Required components:	wine	45*
Required components:		
		800
		30° 15° 0° 15° 30°
		15° 0° 15°



Μ ΝΙCΗΙΛ		90°
LED	NV4WB35AM	100
FWHM / FWTM	Asymmetric	$\mathbb{C} \times \mathbb{C} \times \mathbb{C} \times \mathbb{C} \times \mathbb{C}$
Efficiency	94 %	200
Peak intensity	0.4 cd/lm	\times \rightarrow \times \rightarrow \times \rightarrow
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45* 400 45*
Required components:		500
		20 ⁺ 20 ⁺ 20 ⁺
Ø ΝΙCΗΙΛ		
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	
Peak intensity	0.5 cd/lm	604 200 601
LEDs/each optic	4	
Light colour	White	
Required components:		
		\times / \times
		30° 15° 30°
Μ ΝΙCΗΙΛ		90*
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	91 %	
Peak intensity	0.6 cd/lm	400 607
LEDs/each optic	1	\times / / \wedge \times
Light colour	White	45° 600 45°
Required components:		
		80
		000 30 ⁴ 1300 100 30 ⁴
OSRAM		20 ⁴ 20 ⁴ 30 ⁶
OSRAM		50°
LED	PrevaLED Brick HP IP 2x6	23 ⁺ 25 ⁺ 25 ⁺ 25 ⁺ 25 ⁺ 25 ⁺
LED FWHM / FWTM	Asymmetric	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency	Asymmetric 93 %	90 32* 20 ³ 200 13 ³ 30 ⁴ 35 ⁴ 000 35 ⁴ 0
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.5 cd/lm	909 50° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1	20° 12° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm	6 ⁵ 6 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1	20° 12° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1	20° 12° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1	20° 12° 20° 00° 20° 00° 20° 00°



OSRAM		
Opto Semiconductors	OSCONIQ P 3737 (2W version)	90* 90*
FWHM / FWTM		73* 75*
	Asymmetric	
Efficiency	90 %	60° 60°.
Peak intensity	0.5 cd/lm	400
LEDs/each optic	1	$X / T \land X$
Light colour	White	45'
Required components:		800
		\times \land \times
		800
		30* 115 00 10* 30*
OSRAM		
Opto Semiconductors	OSCONIO D 2727 (2W) vorsion)	90* 90*
	OSCONIQ P 3737 (3W version)	75° 100 75°
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	60* 60*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	460
Light colour	White	et et
Required components:		500
		× ***
		700
		30* m2 0° 10° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (3W version)	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.5 cd/lm	734 230 75*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1	73° 60° 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm	734 230 75*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1	73° 60° 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1	73° 60° 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1	73° 60° 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1	73° 60° 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OPTO SERIAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 0.5 cd/lm 1	



OSRAM Opto Semiconductors		80 ⁺
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	750 750
Efficiency	93 %	200
Peak intensity	0.5 cd/lm	60* 60*
		400
LEDs/each optic	1 White	$X / / T \land X$
Light colour Required components:	white	det det
Required components:		000
		\times / \times
		80
		30° 23° 0° 15° 30°.
SAMSUN		
<u>21111201</u>	10	90* 90*
LED	LH181B	
FWHM / FWTM	Asymmetric	75 200 75
Efficiency	93 %	
Peak intensity	0.6 cd/lm	400
LEDs/each optic	1	
Light colour	White	45° 600 45°
Required components:		
		30* 30*
0.0.0.0.0.0		125 1890 125+
SAMSUN	16	90* 90*
LED	LH351B	
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	
Peak intensity	0.5 cd/lm	60° × 60°
	0.0 60/111	
LEDs/each optic	1	400
LEDs/each optic Light colour		6° 6°
	1	67 69 67
Light colour	1	67
Light colour	1	-07 -07 -07
Light colour	1	400 407 400 400 400 400
Light colour Required components:	1 White	67 69 69 69 69 69 69 69 69 69 69 69 69 69
Light colour Required components:	1 White	
Light colour Required components:	1 White	
Light colour Required components: SAMSUN LED	1 White G LH351C	
Light colour Required components: SAMSUN LED FWHM / FWTM	1 White G LH351C Asymmetric	80 ⁺ 25 ⁰ 0 ⁺ 15 ⁺ 50 ⁺
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	1 White G LH351C Asymmetric 93 %	80 ⁺ 25 ⁰ 0 ⁺ 15 ⁺ 50 ⁺
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	1 White G LH351C Asymmetric 93 % 0.5 cd/lm	80 ⁺ 25 ⁰ 0 ⁺ 15 ⁺ 50 ⁺
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White G LH351C Asymmetric 93 % 0.5 cd/lm 1	
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White G LH351C Asymmetric 93 % 0.5 cd/lm	80 ⁺ 25 ⁰ 0 ⁺ 15 ⁺ 50 ⁺
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White G LH351C Asymmetric 93 % 0.5 cd/lm 1	
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White G LH351C Asymmetric 93 % 0.5 cd/lm 1	
Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White G LH351C Asymmetric 93 % 0.5 cd/lm 1	



SAMSUN	IG	
		90* 90*
LED	LH351D	100
FWHM / FWTM	Asymmetric	
Efficiency	92 %	804 66
Peak intensity	0.4 cd/lm	
LEDs/each optic		$X \times / X \times$
Light colour	White	45* 400 45*
Required components:		500
		00
		20° 700 20° 20° 20°
SAMSUN	IG	90*
LED	LH502C	
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	0.4 cd/im	60 ⁴ 200 60 ⁴
LEDs/each optic	1	
Light colour	White	45'
Required components:		400
		X X
		200
		30* 00 30* 30*
SAMSUN	IG	90* 90°
LED	LH508B	9
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 65
Required components:		40
		500
		30* 660
SEOUL		227 0° 125'
SEOUL SEMICONDUCTOR		90* 90*
LED	2x6 5050 module - SMJD-3625012F-XX	
FWHM / FWTM	Asymmetric	22*
Efficiency	94 %	.60 ⁴
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		400
		40
		50



SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 5050 6V	75%
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50* 200 60*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
		600
		30* 30*
SEOUL		1.0 _ 200_ 1.0
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M	
FWHM / FWTM	Asymmetric	
Efficiency	89 %	
Peak intensity	0.5 cd/lm	60° 60°.
LEDs/each optic	1	400
Light colour	White	45+
Required components:		600
		15 ⁵ 0 ⁶ 15 ⁶
SEOUL		
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	W
seoul semiconductor	Z5M1/Z5M2 Asymmetric	20 PC
seoul semiconductor LED FWHM / FWTM	Asymmetric	90° 20° 20°
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 90 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.6 cd/lm	90° 70° 60° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm	97 73 64 60 67 60 60 67
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	9° 13° 40° 6° 60° 6° 6°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	9° 10° 10° 10° 10° 10° 10° 10° 10
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	90° 10° 10° 10° 10° 10° 10° 10° 1
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	
SECOL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 1 White	
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SECOUL SEMICONDUCTOR LED	Asymmetric 90 % 0.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	40° 60°
SEOUL SEMICONDUCTOR 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	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	40° 60°
SEOUL SEMICONDUCTOR 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	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	200 (0)* 60* 60*
SEOUL SEMICONDUCTOR 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	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	200 (0)* 60* 60*
SEOUL SEMICONDUCTOR 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	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	200 (0)* 60* 60*



17/18

[
TOSHIBA Leading Innovation >>>		90* 90*
LED	TL1L2	100
FWHM / FWTM	Asymmetric	
Efficiency	88 %	
Peak intensity	0.5 cd/lm	66* 300 66*.
LEDs/each optic	1	
Light colour	White	45* 500 45*
Required components:		500
		30* 30*
		15° 0° 15°
TOSHIBA Leading Innovation >>>		50°
TOSHIBA Leading Innovation >>> LED	TL1L3	8,
Leading Innovation >>>	TL1L3 Asymmetric	99 ⁴ 21 20
Leading Innovation »» LED		20
Leading Innovation »» LED FWHM / FWTM	Asymmetric	756
Leading Innovation »» LED FWHM / FWTM Efficiency	Asymmetric 86 %	10
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.3 cd/lm	10
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.3 cd/lm 1	20 57 69 69
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.3 cd/lm 1	
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.3 cd/lm 1	
Leading Innovation »» LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.3 cd/lm 1	



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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