

STRADELLA-8-HV-ME

Fulfils EN13201 M-class requirements where road width is ≤ the pole height. Excellent longitudinal luminance uniformity. Variant with improved creepage distance for high voltage circuit design.

TECHNICAL SPECIFICATIONS:

Dimensions	49.5 x 49.5 mm
Height	5.5 mm
Fastening	pin, screw
ROHS compliant	yes 🛈

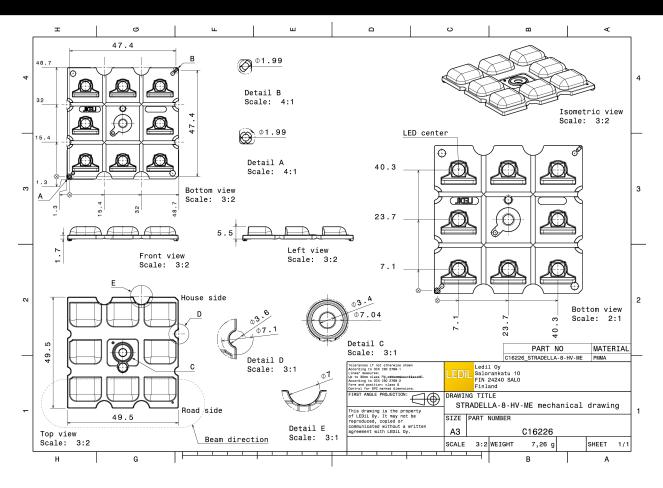


MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
STRADELLA-8-HV-ME	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16226_STRADELLA-8-HV-ME	800	160	160	6.6
» Box size: 480 x 280 x 300 mm				



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



PHOTOMETRIC DATA (MEASURED):

CREE LED J Serie FWHM / FWTM Asymm Efficiency 97 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: CREE LED XD16 FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.9 cd	/Im	
LED J Serie FWHM / FWTM Asymm Efficiency 97 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components:	netric /Im	
FWHM / FWTM Asymm Efficiency 97 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: CREE LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric /Im	
Efficiency 97 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: CREEE LED XD16 FWHM / FWTM Asymm Efficiency 94 %	/Im	
Peak intensity 0.7 cd. LEDs/each optic 1 Light colour White Required components: CREEE LED XD16 FWHM / FWTM Asymm Efficiency 94 %		
LEDs/each optic 1 Light colour White Required components: CREEE LED XD16 FWHM / FWTM Asymmetric Symmetric Symmetris		
Light colour White Required components: CREE LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric	
Required components:	netric	
CREE LED XD16 FWHM / FWTM Asymr Efficiency 94 %	netric	
LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric	
LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric	
LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric	
LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric	
LED XD16 FWHM / FWTM Asymm Efficiency 94 %	netric	
FWHM / FWTM Asymr Efficiency 94 %	netric	
Efficiency 94 %		
	/Im	56 ⁴⁴ 300
LEDs/each optic 1		40
Light colour White		57 200
Required components:		540
		710
		00
		30° 15° 200 15°
LUMILEDS		
		90
LED LUXE	ON 3030 2D (Round LES)	50
LED LUXE FWHM / FWTM Asymr	ON 3030 2D (Round LES)	94 ⁵ 734
	ON 3030 2D (Round LES)	90* 73* 500 200
FWHM / FWTM Asymr	ON 3030 2D (Round LES) metric	90* 732 80 ⁴ 80 ⁴
FWHM / FWTM Asymmetry Asymmetry 88 %	ON 3030 2D (Round LES) metric	55°
FWHM / FWTMAsymmEfficiency88 %Peak intensity0.7 cd.	ON 3030 2D (Round LES) metric	92* 33* 40* 50* 50* 50* 50* 50* 50* 50* 5
FWHM / FWTMAsymmEfficiency88 %Peak intensity0.7 cdLEDs/each optic1	ON 3030 2D (Round LES) metric	50° 30° 40° 40° 40° 40° 40° 40° 40° 4
FWHM / FWTMAsymmEfficiency88 %Peak intensity0.7 cdLEDs/each optic1Light colourWhiteRequired components:	ON 3030 2D (Round LES) netric /Im	92* 23* 04 05 00 00 00 00 00 00 00 00 00
FWHM / FWTMAsymmEfficiency88 %Peak intensity0.7 cdLEDs/each optic1Light colourWhite	ON 3030 2D (Round LES) netric /Im	92 ³ 20 ⁴ 60 ⁴ 50 ⁴ 50 ⁶ 60 ⁶ 60 ⁶ 70 ⁶ 60 ⁶ 70
FWHM / FWTMAsymmEfficiency88 %Peak intensity0.7 cdLEDs/each optic1Light colourWhiteRequired components:	ON 3030 2D (Round LES) netric /Im	
FWHM / FWTM Asymr Efficiency 88 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: Protective plate, g	ON 3030 2D (Round LES) metric /Im	
FWHM / FWTM Asymr Efficiency 88 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: Protective plate, g	ON 3030 2D (Round LES) netric /Im	
FWHM / FWTM Asymr Efficiency 88 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Comparison of the second	ON 3030 2D (Round LES) metric /Im lass	
FWHM / FWTM Asymr Efficiency 88 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Component state LUXED LED LUXEG FWHM / FWTM Asymr	ON 3030 2D (Round LES) metric /Im lass	81
FWHM / FWTM Asymr Efficiency 88 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Comparison of the symmetry o	ON 3030 2D (Round LES) metric /Im lass ON V2 metric	81
FWHM / FWTM Asymm Efficiency 88 % Peak intensity 0.7 cd LEDs/each optic 1 Light colour White Required components: Protective plate, g Voltage LUXEU EED LUXEU FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.7 cd	ON 3030 2D (Round LES) metric /Im lass ON V2 metric	81
FWHM / FWTM Asymm Efficiency 88 % Peak intensity 0.7 cd. LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Protective plate, g Image: Protective plate, g Image: Luxer Luxer FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.7 cd. LEDs/each optic 1	ON 3030 2D (Round LES) netric /Im lass ON V2 netric /Im	
FWHM / FWTM Asymmetry Efficiency 88 % Peak intensity 0.7 cd. LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Protective plate Description LED LUXEd FWHM / FWTM Asymmetry Efficiency 94 % Peak intensity 0.7 cd LED/each optic 1 Light colour White	ON 3030 2D (Round LES) netric /Im lass ON V2 netric /Im	81
FWHM / FWTM Asymm Efficiency 88 % Peak intensity 0.7 cd. LEDs/each optic 1 Light colour White Required components: Protective plate, g Protective plate, g LUXEQ EED LUXEQ FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.7 cd. LEDs/each optic 1	ON 3030 2D (Round LES) netric /Im lass ON V2 netric /Im	
FWHM / FWTM Asymmetry Efficiency 88 % Peak intensity 0.7 cd. LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Protective plate Description LED LUXEd FWHM / FWTM Asymmetry Efficiency 94 % Peak intensity 0.7 cd LED/each optic 1 Light colour White	ON 3030 2D (Round LES) netric /Im lass ON V2 netric /Im	
FWHM / FWTM Asymm Efficiency 88 % Peak intensity 0.7 cd. LEDs/each optic 1 Light colour White Required components: Protective plate, g Image: Protective plate Park EED LUXEG FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.7 cd. LED/each optic 1 Light colour White	ON 3030 2D (Round LES) netric /Im lass ON V2 netric /Im	
		30° 31° <u>31</u> ° <u>60</u> 31° <u>31</u> °



PHOTOMETRIC DATA (MEASURED):

ØNICHI		90* 90
LED	NF2W585AR	100
FWHM / FWTM	Asymmetric	780 781
Efficiency	94 %	
Peak intensity	0.7 cd/lm	50° 300 60'
LEDs/each optic	1	400
Light colour	White	45* 760 45
Required compone	nts:	
		600
		740
		30* 300 30
		90* 90'
LED	NVSW219F	780
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60 ⁴ 60
Peak intensity	0.6 cd/lm	200
LEDs/each optic		$\times \times / \top \setminus \times \times$
Light colour	White	45* 400 45'
Required compone	IIS.	500
		X/T/X
		600
		30° 15° 30'
ØNICHI		
LED	NVSW319B	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
	0.6 cd/lm	60'
	0.6 cd/lm 1	50° (60)
Peak intensity LEDs/each optic		5° 50 60
Peak intensity	1 White	6 ¹ 60 67
Peak intensity LEDs/each optic Light colour	1 White	6 ⁵ 60 50 50
Peak intensity LEDs/each optic Light colour	1 White	
Peak intensity LEDs/each optic Light colour	1 White	20
Peak intensity LEDs/each optic Light colour Required componer	1 White	
Peak intensity LEDs/each optic Light colour Required componer	1 White hts:	20
Peak intensity LEDs/each optic Light colour Required componer	1 White hts: OSCONIQ S 3030	20
Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM	1 White hts: OSCONIQ S 3030 Asymmetric	90°
Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency	1 White hts: OSCONIQ S 3030 Asymmetric 94 %	90°
Peak intensity LEDs/each optic Light colour Required component Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity	1 White hts: OSCONIQ S 3030 Asymmetric 94 % 0.7 cd/m	90°
Peak intensity LEDs/each optic Light colour Required component Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White hts: OSCONIQ S 3030 Asymmetric 94 % 0.7 cd/m 1	60°
Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White hts: OSCONIQ S 3030 Asymmetric 94 % 0.7 cd/m 1 White	60°
Peak intensity LEDs/each optic Light colour Required component Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White hts: OSCONIQ S 3030 Asymmetric 94 % 0.7 cd/m 1 White	60°
Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White hts: OSCONIQ S 3030 Asymmetric 94 % 0.7 cd/m 1 White	60°
Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White hts: OSCONIQ S 3030 Asymmetric 94 % 0.7 cd/m 1 White	60°



PHOTOMETRIC DATA (MEASURED):

PHILIF	S	90*
LED	Fortimo FastFlex LED 4x8up PR G5	
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60.
LEDs/each optic	1	400
Light colour	White	45'
Required compone		600
		\times
		80
		30° 155° 1000 15°
SEOUL SEMICONDUCTOR		80
LED	SEOUL DC 3030C	100
FWHM / FWTM	Asymmetric	120
Efficiency	94 %	
Peak intensity	0.7 cd/lm	50 ⁵ 30
LEDs/each optic	1	400
Light colour	White	451 200
Required compone	ints:	600
		740
		35° <u>900</u> 135 ⁵ 0° 15°
SEOUL SEMICONDUCTOR		90*
LED	Z5M3	5
FWHM / FWTM	Asymmetric	75 200
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	65*
LEDs/each optic	1	30
Light colour	White	457 400
Required compone	ents:	
		500
		600
		30° 125 860 13°
SEOUL SEMICONDUCTOR		95°
LED	Z5M4	
FWHM / FWTM	Asymmetric	.75*
Efficiency	97 %	
Peak intensity	0.5 cd/lm	£04 200
LEDs/each optic	1	
Light colour	White	45*
		400
	ins.	
Required compone	ants:	\times
	nts:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	mis:	50



CREE ≑		THY EFT
		90* 92
	XP-G2	750
FWHM / FWTM	Asymmetric	the stand of the stand
Efficiency	94 %	61 ⁴ 6
Peak intensity	0.7 cd/lm	× + ** + × /
LEDs/each optic	1	400
Light colour	White	
Required components:		
		600
		700
		30* 19 ⁵ 30* 30*
CREE ≑		
		90* 90
	XP-G2 HE	78
FWHM / FWTM Efficiency	Asymmetric 91 %	
Peak intensity	91 % 0.4 cd/lm	.60* 60
LEDs/each optic	1	
Light colour	' White	
Required components:	white	(4). (c)
Required components.		440
		\times
		304 304
		- 13 ⁵ 06 12 ⁶
		13 ² 0 ⁴ 13 ²
	VD C2	90°
LED	XP-G3	
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric 81 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric 81 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric 81 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric 81 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.5 cd/lm 1 White XP-G3 Asymmetric 81 % 0.3 cd/lm 1 White	



CREE ≑		95* 90*
LED	XT-E	4
FWHM / FWTM	Asymmetric	750 The man and the Man Mar 750
Efficiency	92 %	A ment
Peak intensity	0.8 cd/lm	60* 60*
		400
LEDs/each optic	1 White	
Light colour Required components:	Wille	45* 640 45*
Required components.		\times / \setminus \times
		000
		\times
		30° 15° 30°
	S	
LED	LUXEON CZ	90*
FWHM / FWTM	Asymmetric	.100
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required components:	Wille	45' 300 45'
		640
		770
		000
		30° 15° 30°
Μ ΝΙCΗΙΛ		90*
LED	NF2x757G	
FWHM / FWTM	Asymmetric	750 780
		100
Efficiency	82 %	
Efficiency Peak intensity		61 ⁴ 67.
Peak intensity	82 %	61 ⁴ (0 ⁴
Peak intensity LEDs/each optic	82 % 0.4 cd/lm	61° 60° 60°
Peak intensity	82 % 0.4 cd/lm 1	61 ⁵ 100 100 100 100 100 100 100 100 100 100
Peak intensity LEDs/each optic Light colour Required components:	82 % 0.4 cd/lm 1 White	61° 67°
Peak intensity LEDs/each optic Light colour	82 % 0.4 cd/lm 1 White	51 ⁵ 67 67 69 69 69
Peak intensity LEDs/each optic Light colour Required components:	82 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	82 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	82 % 0.4 cd/lm 1 White	50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate	82 % 0.4 cd/lm 1 White , glass NF2x757G	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	82 % 0.4 cd/lm 1 White , glass NF2x757G Asymmetric	50° 50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate	82 % 0.4 cd/lm 1 White , glass NF2x757G Asymmetric 94 %	50° 50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate MICHIA LED FWHM / FWTM Efficiency Peak intensity	82 % 0.4 cd/lm 1 White NF2x757G Asymmetric 94 % 0.6 cd/lm	50° 50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82 % 0.4 cd/lm 1 White s, glass NF2x757G Asymmetric 94 % 0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82 % 0.4 cd/lm 1 White NF2x757G Asymmetric 94 % 0.6 cd/lm	50° 50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate VICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82 % 0.4 cd/lm 1 White s, glass NF2x757G Asymmetric 94 % 0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82 % 0.4 cd/lm 1 White s, glass NF2x757G Asymmetric 94 % 0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82 % 0.4 cd/lm 1 White s, glass NF2x757G Asymmetric 94 % 0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate ONICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82 % 0.4 cd/lm 1 White s, glass NF2x757G Asymmetric 94 % 0.6 cd/lm 1	



ΜΝΙCΗΙΛ		90°
LED	NVSW519A	
FWHM / FWTM	Asymmetric	754
Efficiency	81 %	
Peak intensity	0.3 cd/lm	60°
LEDs/each optic	1	
Light colour	White	
Required components:	white	45* 45
Required components.		\vee / T / \vee
Protective plate	e, glass	
		130 ⁴ 135 ⁵ 0 ⁶ 15 ⁴ 30 ⁴
ΜΝΙCΗΙΛ		90* 90'
LED	NVSW519A	
FWHM / FWTM	Asymmetric	75 775
Efficiency	88 %	
Peak intensity	0.4 cd/lm	60 ¹⁰ 60
LEDs/each optic	1	
Light colour	White	45* 300 45
Required components:		
		400
		\times / \times
		200
		15 ⁵ 0° 15°
MICHI		90° 90
	NVSxE21A	10 ¹
	NVSxE21A Asymmetric	20 ¹⁰ 20
LED		25
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 94 %	92 ⁻ 273 02 ⁻ 02 ⁻ 02 ⁻ 00 ⁻ 00 ⁻ 00 ⁻ 00 ⁻ 00 ⁻ 00 ⁻ 00 ⁻
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	60° 60° C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1	60° 60° °
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White	60° 60° C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A	60° 60° C
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/m 1 White NVSxE21A Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White NVSxE21A Asymmetric 93 % 0.7 cd/lm 1	



MICHIΛ		
LED	NVSxx19B/NVSxx19C	90°
FWHM / FWTM	Asymmetric	75%
Efficiency	92 %	
Peak intensity	92 // 0.5 cd/lm	50°
		300
LEDs/each optic	1 White	$X \times / T \setminus X $
Light colour	White	45* 400
Required components:		
		200
		640
		30* 13 ⁵ 0 ⁶ 15*
Μ ΝΙCΗΙΛ		
LED	NVSxx19B/NVSxx19C	50°
EED FWHM / FWTM	Asymmetric	734
Efficiency	82 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:	white	457 300
required components.		$ \times \times $
Protective plate	e, glass	400
		\times / \land \rangle
		30° 25° 0° 13°
OSRAM Opto Semiconductors		90°
OSRAM Opto Semiconductors LED	OSCONIQ C 2424	10°
Opto Semiconductors	OSCONIQ C 2424 Asymmetric	3 7 7 5
Opto Semiconductors	OSCONIQ C 2424 Asymmetric 94 %	20
opto Semiconductors LED FWHM / FWTM	Asymmetric	9° 75 6° 40
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.7 cd/lm	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1	5 ³ 6 ³ 5 ³ 6 ³ 6 ³ 7 ³ 6 ³ 7 ³ 6 ³ 7 ³
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White	5 ³ 6 ³ 5 ³ 6 ³ 6 ³ 7 ³ 6 ³ 7 ³ 6 ³ 7 ³
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030	5 ³ 6 ³ 5 ³ 6 ³ 6 ³ 7 ³ 6 ³ 7 ³ 6 ³ 7 ³
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 94 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric	5 ³ 6 ³ 5 ³ 6 ³ 6 ³ 7 ³ 6 ³ 7 ³ 6 ³ 7 ³
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.6 cd/lm 1	



OCDAM			
OSRAM			1
Opto Semiconductors	OSCONIQ P 3737 (2W version)	90*	90*
FWHM / FWTM	Asymmetric	736	78.
	94 %		ς /
Efficiency	94 % 0.7 cd/lm	504	60*
Peak intensity			$\langle \cdot \rangle$
LEDs/each optic	1	$\times \times \times \times$	
Light colour	White	45* 400	45*
Required components:			$\langle \rangle$
			\prec
		600	X
		30* 155 750 15*	30*
OSRAM Opto Semiconductors			1
		90*	90*
LED	OSLON Square CSSRM2/CSSRM3	736	75"
FWHM / FWTM	Asymmetric		2
Efficiency	77 %	50*	604
Peak intensity	0.3 cd/lm		
LEDs/each optic	1	X / T	
Light colour	White	45*	45*
Required components:		300	
Protective plate			X
FIDIECTIVE plate	z, ylass	400	
		30* 13 ⁵ 0 ⁶ 15*	30*
OSRAM			
Opto Semiconductors	OSLON Severe CSSDM0/CSSDM0		90*
Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	90°	90*
Opto Semiconductors LED FWHM / FWTM	Asymmetric		90*
^{opto Semiconductors} LED FWHM / FWTM Efficiency	Asymmetric 94 %		90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm		90°
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1		801
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm		90* 79° 667.
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1		9°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1		90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1		20°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1		80°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1		90" 70 60"
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White		90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LEDS/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3		90" 90" 60" 91" 91" 91" 91"
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric		90" 70" 60" 00"
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 %		90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 cd/lm		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 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	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 cd/lm		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 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 Required components:	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 cd/lm 1 White		90°
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	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 cd/lm 1 White		90°
opio Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM OSRAM Pro Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 80 % 0.4 cd/lm 1 White		



SAMSUN	IG	90* Dot
LED	LH181B	
FWHM / FWTM	Asymmetric	75°
Efficiency	82 %	
Peak intensity	0.5 cd/lm	60 ⁴ 604
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		460
Protective plat	e, glass	
		30* <u>15</u> ° <u>50</u> 15* 30*
SAMSUN	IG	30 ¹
LED	LH181B	
FWHM / FWTM	Asymmetric	73° have and the
Efficiency	94 %	
Peak intensity	0.7 cd/lm	50°
LEDs/each optic	1	
Light colour	White	15°
Required components:		
		600
		740
		30° 500 50° 30°
SAMSUN	IG	
LED	LH351C	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z8Y22	100
FWHM / FWTM	Asymmetric	73* 70*
Efficiency	93 %	
Peak intensity	0.7 cd/lm	.50 ⁴ 300 694.
LEDs/each optic	1	400
Light colour	White	45" 500 45"
Required components:		
		30° 30°
		30° 13 ⁵ 30° 30°



SEOUL SEOUL SEMICONDUCTOR		9°
LED	Z8Y22P	
FWHM / FWTM	Asymmetric	787
Efficiency	93 %	
Peak intensity	0.6 cd/lm	50 ⁴ 50
LEDs/each optic	1	
Light colour	White	5° 40 5°
Required component	ts:	50
		80
		3/4 7/0
		13 ³ 0 ¹ 10 ⁴



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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