

PRODUCT DATASHEET C16958_STRADELLA-16-ME

STRADELLA-16-ME

Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less than the pole height.

TECHNICAL SPECIFICATIONS:

Dimensions	49.5 x 49.5 mm
Height	4.9 mm
Fastening	screw
ROHS compliant	yes 🛈



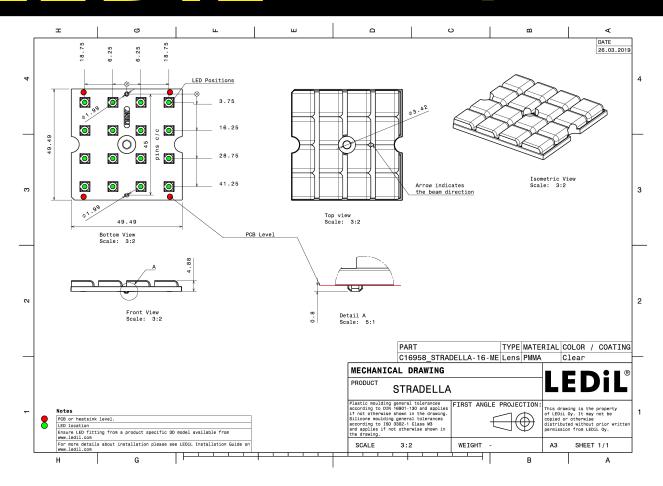
MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourFinishSTRADELLA-16-MEMulti-lensPMMAclear

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C16958_STRADELLA-16-ME	800	160	160	7.9
» 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):

		90 ⁺ 99 ⁺
LED	J Series 3030	21
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	95 %	
Peak intensity	0.6 cd/lm	614 614
LEDs/each optic	1	X
LEDS/each optic	' White	
Required compone		(42° 400 42°
Required compone	115.	
		30° <u>700</u> 33°
		THA KHI
		90* 90*
LED	EHP-223.5x50-1604-xx-70-LS30-06-NTC	75* 100 75*
FWHM / FWTM	Asymmetric	$\left[\left(O_{\rm C} \right) \right] $
Efficiency	97 %	504 200 604
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45+ 400 45+
Required compone	nts:	
		500
		00
		30° 30°
		18' 18'
		THY YHT
ØNICHI/		80 224 90
LED	NF2x757G	
LED FWHM / FWTM	NF2x757G Asymmetric	80°
LED FWHM / FWTM Efficiency	NF2x757G Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity	NF2x757G Asymmetric 95 % 0.7 cd/lm	20 / / · · · · · · · · · · · · · · · · ·
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 95 % 0.7 cd/lm 1	20 / / · · · · · · · · · · · · · · · · ·
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White	20 / / · · · · · · · · · · · · · · · · ·
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts:	0 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	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 %	0 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	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NF2x757G Asymmetric 95 % 0.7 cd/lm 1 White nts: NFSW757H Asymmetric 94 % 0.6 cd/lm 1 White	



PHOTOMETRIC DATA (MEASURED):

SCIO	LUX	
LED	XLE-S44XTEHE (XT-E HE)	
FWHM / FWTM	Asymmetric	75 200
Efficiency	94 %	
Peak intensity	0.6 cd/lm	607 60
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	40
		50
		30° <u>500</u> 30°
SEOUL SEMICONDUCTOR		9/ ⁴
LED	Z5M3	5,
FWHM / FWTM	Asymmetric	78 - 79:
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60 60
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	40
		500
		10 ¹⁰ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰
TRIDOM	1IC	90* 99
LED	RLE 4x16 4000lm MP ADV2 OTD	The second se
FWHM / FWTM	Asymmetric	751 200 752
Efficiency	94 %	
Peak intensity	0.7 cd/lm	6 ¹⁴ 6 ¹⁴
LEDs/each optic	1	
Light colour	White	67
Required compone	ents:	
		50
		50



		90°
LED	J Series 3030	3
FWHM / FWTM	Asymmetric	75°
Efficiency	83 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	
Light colour	' White	$\times \times / \top \times \times$
Required components:	Wilke	45* 460
Required components.		
Protective plate	e, glass	
		30° 45° 0° 15°
		90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	130
Efficiency	90 %	
Peak intensity	0.4 cd/lm	60 ¹⁰
LEDs/each optic	1	
Light colour	White	45*
Required components:		400
		\times
		30° 15° 60° 15°
)S	90*
LED	LUXEON 2835 Line	
LED FWHM / FWTM	LUXEON 2835 Line Asymmetric	251 200
FWHM / FWTM		290 Jap
FWHM / FWTM Efficiency	Asymmetric	514
FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 %	20 60 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm	5° 40
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	51°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	35
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT OF COMPARENT LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White S LUXEON 2835 Line Asymmetric 79 % 0.4 cd/lm 1 White	



	DS	90* 92
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Square LES) Asymmetric 83 %	75 310 7
Peak intensity	0.5 cd/lm	
LEDs/each optic	16	
Light colour	White	45*
Required components		50
	DC	20* <u>00</u> 25* 3
		90° 9
LED	LUXEON 3030 2D (Square LES)	751 100 77
FWHM / FWTM	Asymmetric	
Efficiency	83 %	61 ⁴ 210 6
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	30
Light colour Required components	White :	45* 40
Protective pla	ate, glass	
	DS	
LED	LUXEON 3030 HE Plus	
FWHM / FWTM	Asymmetric	720
Efficiency	93 %	20
Peak intensity	0.5 cd/lm	60%
LEDs/each optic	1	
Light colour	White	40 40
Required components	:	500 200 200
	DS	
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	751
Efficiency	79 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	65
Required components		
Protective pla	ate, glass	500



	C.	
		90* 99*
LED	LUXEON HL2X	9
FWHM / FWTM	Asymmetric	
Efficiency	93 %	50 ⁴ 200 50 ⁴
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	X X
Light colour	White	45* 45*
Required components:		400
		30* 15 ⁵ 00 ⁶ 15* 30*
Μ ΝΙCΗΙΛ		90* 90*
LED	NVSW519A	
FWHM / FWTM	Asymmetric	75°
Efficiency	87 %	
Peak intensity	0.3 cd/lm	60 ⁴ 200
LEDs/each optic	1	
Light colour	White	45° 300 5°
Required components:		
		400
		\times / \top / \times
		15° 0° 15°
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	3
FWHM / FWTM	Asymmetric	75*
Efficiency	Asymmetric 94 %	200 200 75t
		20 50 70 70 70 70 70 70 70 70 70 70 70 70 70
Efficiency	94 %	200
Efficiency Peak intensity	94 % 0.6 cd/lm	50. 50. 50. 50. 50. 50. 50. 50.
Efficiency Peak intensity LEDs/each optic	94 % 0.6 cd/lm 1	200 60 ⁴ 60 60
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/lm 1	200 60 ⁴ 60 60
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/lm 1	200 60 ⁴ 60 60
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/lm 1	200 60 ⁴ 60 60
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/lm 1 White OSCONIQ C 2424	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM	94 % 0.6 cd/lm 1 White OSCONIQ C 2424 Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 % 0.5 cd/m	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 % 0.5 cd/m 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 % 0.5 cd/m	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 % 0.5 cd/m 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 % 0.5 cd/m 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	94 % 0.6 cd/m 1 White OSCONIQ C 2424 Asymmetric 83 % 0.5 cd/m 1 White	



OSRAM		THA Y	411
Opto Semiconductors	OSCONIQ P 2226	90*	90*
		756 100	
FWHM / FWTM	Asymmetric		$\sum \left \right\rangle$
Efficiency	91 %	60*	607
Peak intensity	0.6 cd/lm	X - 300	$\prec \times$ /
LEDs/each optic	1	X X 400	$\times \times$
Light colour	White	45*	45*
Required components:		500	T >
		600	$+$ \vee
		30* 183 00	30*
OSRAM			47
Opto Semiconductors LED	OSCONIQ P 3030	90*	90*
FWHM / FWTM	Asymmetric	759 100	782
Efficiency	91 %		XX
Peak intensity	0.5 cd/lm	60°	60%
LEDs/each optic	1		
Light colour	' White		
Required components:	WIIG	400	401
		\times	X
		500	T V
			1
		30° 15° 0°	15* 30*
OSRAM Data Samicardinators		30° 235' 0°	15* 30* 90*
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3		10° 30°
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 Asymmetric	29° 12 ³ 0°	15° 30°
Opto Semiconductors LED FWHM / FWTM	Asymmetric	90 ⁺ 73 ⁵ 700	25° 20°
Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 %	90°	10 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.5 cd/lm	90 ⁺ 73 ⁵ 700	10 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1	90 ⁺ 73 ⁵ 700	13° 30°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm	200	13" 30"
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1	200	17 30°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	200	17 yr
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	200	17 30 ²
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	200	17 Jr 97 98 97 97 97 97 97 97 97 97 97 97 97 97 97
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	200	17 N°
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	200	17 N°
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	200	17 30 ²
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM	Asymmetric 92 % 0.5 cd/lm 1 White		17 30 ²
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White G LH181B Asymmetric		17 30 ² 97 97 97 97 97 97 97 97 97 97 97 97 97
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.5 cd/lm 1 White I LH181B Asymmetric 83 %		17 30 ² 97 97 97 97 97 97 97 97 97 97 97 97 97
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1 White LH181B Asymmetric 83 % 0.5 cd/lm 1		
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White LH181B Asymmetric 83 % 0.5 cd/lm		10"
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White LH181B Asymmetric 83 % 0.5 cd/lm 1 White		12" 97 60.
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1 White LH181B Asymmetric 83 % 0.5 cd/lm 1 White		107 97 97 97 97 97 97 97 97
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White LH181B Asymmetric 83 % 0.5 cd/lm 1 White		10"



SAMSU	NG	90*
LED	LH351B	3
FWHM / FWTM	Asymmetric	724
Efficiency	93 %	
Peak intensity	0.4 cd/lm	60*
LEDs/each optic	1	30
Light colour	White	42:
Required components		
		50
		30° 12° 0° 12°
SAMSU	NG	 I NY ETT
LED	LM301B	3
FWHM / FWTM	Asymmetric	73
Efficiency	93 %	2/0
Peak intensity	0.6 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	45' 400
Required components		200
		30* 700
SAMSU	NG	
		90.
LED FWHM / FWTM	LM301B	752 200
Efficiency	Asymmetric 83 %	
Peak intensity	0.4 cd/lm	80.
LEDs/each optic	1	
Light colour	White	45*
Required components		
Desta ative	to globa	200
Protective pla	ite, glass	
Protective pla	ile, glass	20
		 50° 0° 13°
SAMSU	NG	 90° 10° 10°
SAMSU Led	N G LM302D	 50° 55 ³ 0° 12°
SAMSU LED FWHM / FWTM	NG LM302D Asymmetric	
SAMSU LED FWHM / FWTM Efficiency	NG LM302D Asymmetric 82 %	
SAMSU LED FWHM / FWTM Efficiency Peak intensity	NG LM302D Asymmetric 82 % 0.4 cd/lm	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NG LM302D Asymmetric 82 %	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NG LM302D Asymmetric 82 % 0.4 cd/lm 1 White	25° 500 80° 500 300
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components	NG LM302D Asymmetric 82 % 0.4 cd/lm 1 White	25° 500 63° 500 900
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NG LM302D Asymmetric 82 % 0.4 cd/lm 1 White	25° 500 80° 500 300



SAMSUN	IG	90* 90*
LED	LM302Z plus	3
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		400
Protective plate	, glass	50
		30* <u>15</u> ² 0* 15* 30*
SAMSUN	IG	90° - 91°
LED	LM302Z plus	3
FWHM / FWTM	Asymmetric	75* 100 7**
Efficiency	93 %	200
Peak intensity	0.5 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		500
		640
		700
		15 ⁵ 0 ⁶ 10 ⁵
SECUL SECUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 3030C	4
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	
Peak intensity	0.4 cd/lm	.60* 200 60*
		X Zuland
LEDs/each optic	1	
		57 80 57
Light colour	1	47
Light colour Required components:	1 White	0 ¹ 30 c ²
Light colour	1 White	4 [°]
LEDs/each optic Light colour Required components: Protective plate	1 White	20 20 40 20 20 20 40 40 40 40 40 40 40 40 40 4
Light colour Required components: Protective plate	1 White	200 200 200 200 200 200 200 200 200 200
Light colour Required components: Protective plate	1 White	40
Light colour Required components: Protective plate	1 White , glass SEOUL DC 3030C	200 200 200 200 200 200 200 200 200 200
Light colour Required components: Protective plate seous semiconductor LED FWHM / FWTM	1 White , glass SEOUL DC 3030C Asymmetric	200 200 200 200 200 200 200 200 200 200
Light colour Required components: Protective plate seous semiconpuctor LED FWHM / FWTM Efficiency	1 White s, glass SEOUL DC 3030C Asymmetric 92 %	90°
Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	1 White s, glass SEOUL DC 3030C Asymmetric 92 % 0.6 cd/lm	200 200 200 200 200 200 200 200 200 200
Light colour Required components: Protective plate SECUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White s, glass SEOUL DC 3030C Asymmetric 92 % 0.6 cd/lm 1	20° 200 200 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
Light colour Required components: Protective plate stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White s, glass SEOUL DC 3030C Asymmetric 92 % 0.6 cd/lm	90 90 90 90 90 90 90 90 90 90 90 90 90 9
Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White s, glass SEOUL DC 3030C Asymmetric 92 % 0.6 cd/lm 1	20° 200 200 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
Light colour Required components: Protective plate secons semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White s, glass SEOUL DC 3030C Asymmetric 92 % 0.6 cd/lm 1	20° 200 200 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
Light colour Required components: Protective plate secons semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White s, glass SEOUL DC 3030C Asymmetric 92 % 0.6 cd/lm 1	20° 200 200 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°



SEOUL		
SEOUL SEMICONDUCTOR		90°
LED	Z8Y19	750 100
FWHM / FWTM	Asymmetric	
Efficiency	81 %	50°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	$ X \times X \rangle$
Light colour	White	45* 460
Required components:		500
Protective plate	e, glass	60
		30° 15 ⁵ 0° 15°
SEOUL		
	70/00	90°
	Z8Y22	752 100
FWHM / FWTM	Asymmetric	
Efficiency	81 %	60*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	$ X \times \times \rangle$
Light colour	White	45* 400
Required components:		
Protective plate	a dass	000
i iotocii o piat	, 9000	
		30* <u>15</u> ⁵ 0 ⁶ * 15*
SEOUL		
SEOUL SEMICONDUCTOR		90*
LED	Z8Y22T	9
LED FWHM / FWTM	Asymmetric	50°
LED FWHM / FWTM Efficiency	Asymmetric 83 %	50°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	5°
LED FWHM / FWTM Efficiency	Asymmetric 83 % 0.4 cd/lm 1	5° 10 60° 50 20 20 20
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 83 % 0.4 cd/lm	5° 20 5° 6° 6° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 83 % 0.4 cd/lm 1	6° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 83 % 0.4 cd/lm 1 White	5° 10 5° 6° 60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.4 cd/lm 1 White	5° 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 83 % 0.4 cd/lm 1 White	61°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 83 % 0.4 cd/lm 1 White	61°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 0.4 cd/lm 1 White 28Y22T	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seous semiconductor LED FWHM / FWTM Efficiency	Asymmetric 83 % 0.4 cd/lm 1 White 28Y22T Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 83 % 0.4 cd/lm 1 White 28Y22T Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 83 % 0.4 cd/lm 1 White e, glass Z8Y22T Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.4 cd/lm 1 White 2, glass Z8Y22T Asymmetric 93 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 83 % 0.4 cd/lm 1 White e, glass Z8Y22T Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.4 cd/lm 1 White e, glass Z8Y22T Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 0.4 cd/lm 1 White e, glass Z8Y22T Asymmetric 93 % 0.5 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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