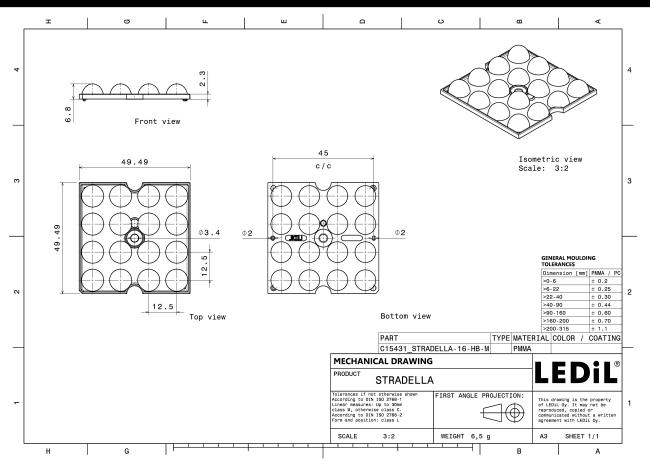


STRADELLA-16-HB-M ~60° medium beam for industrial applications **SPECIFICATION:** 49.5 x 49.5 mm Dimensions Height 6.8 mm pin, screw Fastening **ROHS** compliant yes 🛈 LEDiL **MATERIALS:** Туре Material Colour Finish Component STRADELLA-16-HB-M Multi-lens **PMMA** clear **ORDERING INFORMATION:** Component Qty in box MOQ MPQ Box weight (kg) C15431_STRADELLA-16-HB-M 800 160 160 6.0 » Box size: 480 x 280 x 300 mm





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



		30 ⁴
LED	J Series 3030	
FWHM / FWTM	63.0° / 116.0°	
Efficiency	96 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 40
Required compone		
		200 ap
		2010-1010-1010-1010-1010-1010-1010-1010
LED	EHP-223.5x50-1604-xx-70-LS30-06-NTC	
FWHM / FWTM	64.0° / 115.0°	
Efficiency	96 %	61 ² 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	or de la constante de la consta
Required compone	ents:	
		20
		20 ⁻ 20 ⁻
LED	NFSx757D	
FWHM / FWTM	65.0° / 114.0°	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	a. 40 a.
Required compone		
		10 ⁹ 0 ⁴ 10 ⁹
		94 ⁴
LED	NFSx757G	79
FWHM / FWTM	61.0° / 115.0°	
Efficiency	93 %	60 × 60 × 60
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		200 - 100 - 100 - 200
		107 07 157



ØNICHI		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 65.0° / 116.0° 94 % 0.7 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B 72.0° / 121.0° 94 % 0.6 cd/lm 1 White	
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PrevaLED Brick MP 4x16 63.0° / 116.0° 94 % 0.7 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (2 chip) 63.0° / 115.0° 94 % 0.7 cd/lm 1 Purple ents:	



0000414		
OSRAM Opto Semiconductors		90 ⁴
LED	Duris S5 (Single chip)	
FWHM / FWTM	59.0° / 114.0°	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ints:	
		<u>10</u> 0 ⁴ 10 ⁵
OSRAM Opto Semiconductors		90* 90
LED	OSCONIQ S 3030 (QSLR31)	
FWHM / FWTM	60.0° / 114.0°	77
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr 410
Required compone	ents:	
		15° 0° 15°
PHILI	S	Ne Construction of the Con
		90 ⁴
LED	Fortimo FastFlex LED 4x16 DHE G4	90 ⁴ 27
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0°	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 4x16 DHE G4 61.0° / 115.0° 94 % 0.7 cd/lm 1 White Ints:	



SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LM231 A/B 60.0° / 114.0° 94 % 0.7 cd/lm 1 White	
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S44XTEHE (XT-E HE) 63.0° / 120.0° 94 % 0.6 cd/lm 1 White	
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S48XPG3 (XP-G3) 74.0° / 122.0° 94 % 0.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SEOUL 3030 60.0° / 114.0° 94 % 0.7 cd/lm 1 White ints:	



SEOUL		50
LED	SEOUL DC 3030	77
FWHM / FWTM	61.0° / 117.0°	
Efficiency	94 %	60 ⁻
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30° 31° 31°
SEOUL SEOUL SEMICONDUCTOR		50* 30*
	Z5M3	
FWHM / FWTM	70.0° / 120.0°	72
Efficiency	94 %	
Peak intensity	0.6 cd/lm	et
LEDs/each optic	1	
Light colour	' White	
Required compone		
		30° 10° 10° 0°
TRIDON	IIC	50 ⁴
LED	RLE 4x16 4000lm MP ADV2 OTD	
FWHM / FWTM	61.0° / 116.0°	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	a ^r 40
Required compone	ents:	
TRIDAL		35% of 151
TRIDON		
LED	RLE 4x8 2000lm MP ADV2 OTD	
FWHM / FWTM	61.0° / 116.0°	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CSP 2727 (BXCP) 64.0° / 112.0° 95 % 0.7 cd/lm 1 White	20 - 22 - 22 - 22 - 22 - 22 - 22 - 22 -
bridgelux.		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	CSP 2727 (BXCP) 64.0° / 112.0 + 114.0° 87 % 0.6 cd/lm 1 White	200
Protective plate	, glass	30° 12° 0° 12° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 5050 Round LES 69.0° / 117.0° 96 % 0.7 cd/lm 1 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 71.0° / 123.0° 94 % 0.6 cd/lm 1 White	59 ¹⁴ 57 ¹ 57 ¹ 57 ¹ 57 ¹ 60 ¹



		90° 90°
LED	XP-G2 HE	75*
FWHM / FWTM	70.0° / 122.0°	
Efficiency	94 %	60 ⁴ 200 60 ⁴
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	₫°°
Required components:		
		36° 30°
		90° 90°
LED	XP-G3	75* 75*
FWHM / FWTM	71.0° / 123.0°	
Efficiency	94 %	60° 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		
		30 000 30 159 00 159
		27 129 00 299 301
		99* 99* 99*
CREE ÷	XT-E	
	XT-E 66.0° / 122.0°	39' 39' 39' 39'
LED		20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM	66.0° / 122.0°	20° 00° 20° 10° 0° 10° 10° 0° 10° 0° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency	66.0° / 122.0° 93 %	200 00 ⁴ 200 00 ⁴
LED FWHM / FWTM Efficiency Peak intensity	66.0° / 122.0° 93 % 0.6 cd/lm	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0° / 122.0° 93 % 0.6 cd/lm 1	print <th< td=""></th<>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1	200 00° 10° 0° 10° 0° 10° 0° 10° 0° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 122.0° 93 % 0.6 cd/lm 1 White S LUXEON 5050 Square LES	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 122.0° 93 % 0.6 cd/lm 1 White S LUXEON 5050 Square LES 68.0° / 118.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COMPARENT LED FWHM / FWTM Efficiency	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	66.0° / 122.0° 93 % 0.6 cd/lm 1 White	



	DS	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 64.0° / 124.0° 94 % 0.7 cd/lm 1 White	55 57 57 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 62.0° / 122.0° 94 % 0.7 cd/lm 1 RGBW	72 99 97 97 90 90 90 90
Required components:	06	200 00 10 10 10 10 10 10 10 10 10 10 10 1
		<u>80*</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL1Z 62.0° / 114.0° 95 % 0.7 cd/lm 1 White	20° 0° 12°
Μ ΝΙCΗΙΛ		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFSWE11A 61.0 + 58.0° / 114.0° 92 % 0.7 cd/lm 1 White	771 200 75 200 00 00



ΜΝΙCΗΙΛ		90° 90°
LED	NVSW519A	
FWHM / FWTM	77.0° / 124.0°	73'
Efficiency	93 %	
Peak intensity	0.5 cd/lm	60 ⁴ 200
LEDs/each optic	1	
Light colour	White	5°
Required components:		
		30.0
		15° 8% 15°
MICHIΛ		90° 90°
LED	NVSxE21A	74°
FWHM / FWTM	69.0° / 117.0°	
Efficiency	94 %	60 ²
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 400 45°
Required components:		
		300 300
1		15° 0° 15°
OSRAM		132, 0 ₆ , 122,
OSRAM Opto Semiconductors		89. 122, 0, 152,
LED	Duris E5	33- 94- 95- 152, 64, 15-
LED FWHM / FWTM	62.0° / 119.0°	
LED FWHM / FWTM Efficiency	62.0° / 119.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	62.0° / 119.0° 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	62.0° / 119.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	62.0° / 119.0° 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	62.0° / 119.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	62.0° / 119.0° 94 % 0.7 cd/lm 1	20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	62.0° / 119.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	62.0° / 119.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1	20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED	62.0° / 119.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	62.0° / 119.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0° 95 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0° 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	62.0° / 119.0° 94 % 0.7 cd/lm 1 White OSCONIQ C 2424 61.0° / 116.0° 95 % 0.7 cd/lm 1	



OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 3030	
FWHM / FWTM	62.0° / 116.0°	22. 22.
Efficiency	88 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	95° 440 45°
Required components:		
Protective plate	e, glass	
		30° 15° 0° 15°
OSRAM Opto Semiconductors		90 ⁴ 90 ⁴
LED	OSCONIQ C 3030	
FWHM / FWTM	62.0° / 116.0°	75.
Efficiency	96 %	50° 50°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	400 45°
Required components:		
		15° 0° 15°
OSRAM Opto Semiconductors		90* 90
LED	OSCONIQ P 3030	
FWHM / FWTM	52.0° / 118.0°	75. 75.
Efficiency	96 %	
Peak intensity		60°
	0.8 cd/lm	
	0.8 cd/lm 1	
LEDs/each optic		g
LEDs/each optic Light colour	1	gr 40. 67
LEDs/each optic	1	9 ⁵ 800 657
LEDs/each optic Light colour	1	0° 400 6°
LEDs/each optic Light colour	1	0° dia 0°
LEDs/each optic Light colour Required components:	1	20° 400. 67 20° 200 20° 20°
LEDs/each optic Light colour Required components:	1	24 ⁴ 400, 407, 407, 407, 407, 407, 407, 407,
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components:	1 White OSLON Square CSSRM2/CSSRM3	97 - 100 - 97 30 ¹⁰ - 27 97 - 100 - 107 30 ¹⁰ - 27 97 - 107 97 -
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0°	80 ⁴ 90 ⁴
LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 %	50 ⁴ 50 ⁴
LEDs/each optic Light colour Required components: OPDE Semiconductors LED FWHM / FWTM Efficiency Peak intensity	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 % 0.6 cd/m	50 ⁴ 50 ⁴
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 % 0.6 cd/m 1	50 ⁴ 50 ⁴
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 % 0.6 cd/m	
LEDs/each optic Light colour Required components: OPD SEMICONDUCTOR OF DESEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 % 0.6 cd/m 1	
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 % 0.6 cd/m 1	200 - 200 -
LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White OSLON Square CSSRM2/CSSRM3 73.0° / 120.0° 94 % 0.6 cd/m 1	200 - 200 -



SAMSUN	IG	90*
LED	LH181B	
FWHM / FWTM	67.0° / 118.0°	
Efficiency	94 %	60° 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 460 4
Required components:		
		30 ⁴ 15 ⁴ 0 ⁴ 15 ⁴ 34
SAMSUN	IG	50°
LED	LH181B	
FWHM / FWTM	60.0° / 117.0°	75
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60°-
LEDs/each optic	1	
Light colour	White	45* 460 42
Required components:		
		30. 30
SAMSUN	IG	
LED	LH231B	
FWHM / FWTM	62.0° / 114.0°	75* 23
Efficiency	95 %	60° 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required components:		
		an
		334 155 04 133 34
SAMSUN	IG	90*
LED	LH231B	
FWHM / FWTM	62.0° / 114.0°	75*
Efficiency	87 %	200
Peak intensity	0.7 cd/lm	60 ⁵
LEDs/each optic	1	
Light colour	White	aze
Required components:		
Protective plate	e, glass	
		60
		30°



SAMSUN	IG	
LED	LH351B	
FWHM / FWTM	66.0° / 119.0°	23
Efficiency	94 %	an 1 - 200 - 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	95 ⁴ 400
Required components:		
		30° 13° 0° 13° 36
SAMSUN	IG	20*
LED	LH351C	
FWHM / FWTM	79.0° / 119.0°	73.
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	60 ⁵
LEDs/each optic	1	
Light colour	White	gr 10
Required components:		
		200
		30"
SAMSUN	IG	
LED	LM101B	
FWHM / FWTM	63.0° / 119.0°	73
Efficiency	94 %	00 - 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	est 400 420
Required components:		
		30° 15° 0° 15° 30'
SAMSUN	IG	90°
LED	LM301B	
FWHM / FWTM	63.0° / 116.0°	75.
Efficiency	89 %	200
Peak intensity	0.7 cd/lm	······································
LEDs/each optic	1	
Light colour	White	gr dia and a
Required components:		
Protective plat	a alass	
r rolective plat	2, 91455	



SAMSUN	IG	30*
LED	LM301B	
FWHM / FWTM	62.0° / 120.0°	73
Efficiency	94 %	200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	93-
Required components:		
		30*
SAMSUN	IG	25% 0° 157
		90°
LED	LM302D	73*
FWHM / FWTM	64.0° / 118.0°	
Efficiency	96 %	60.
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	40
Light colour	White	
Required components:		
		30 ⁶ 15 ⁵ 0 ⁶ 15 ⁵
SECUL		3001
LED	SEOUL DC 3030C	
FWHM / FWTM	60.0° / 119.0°	75
Efficiency	96 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	95
Required components:		
		30°
		25 ⁴ Ba 15 ³
SEOUL		90*
LED	SEOUL DC 5050 6V	
FWHM / FWTM	67.0° / 119.0°	X
Efficiency	94 %	605 200
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	974
Required components:		
		an
		an an



SEOUL SEOUL SEMICONDUCTOR		30 ³
LED	Z8Y22T	77
FWHM / FWTM	66.0° / 119.0°	
Efficiency	94 %	60 ⁴ 60 ⁴
Peak intensity	0.7 cd/lm	$r \propto \sqrt{1 + 1} \propto 1$
LEDs/each optic	1	
Light colour	White	gr- 400 60*
Required components:	is:	
		30° 127 0° 127