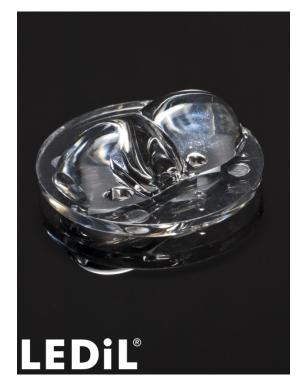


EMERALD-A

Asymmetric beam

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.6 mm
Height	6.9 mm
Fastening	glue, pin
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component EMERALD-A **Type** Single lens

Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

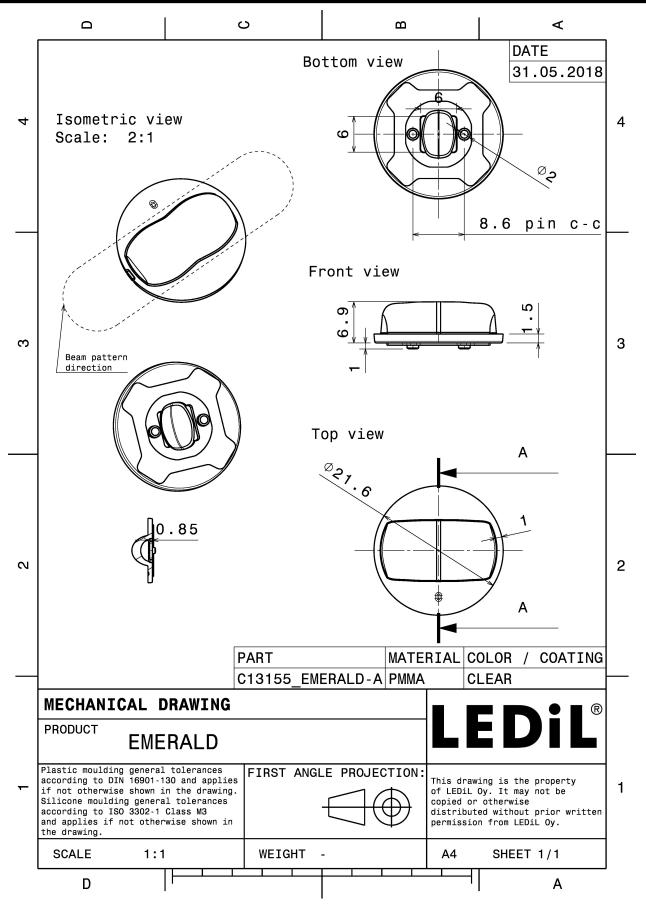
Component C13155_EMERALD-A » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
2128	336	112	4.8

PRODUCT DATASHEET C13155_EMERALD-A



PRODUCT DATASHEET C13155_EMERALD-A



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



		90* 90*
LED	XB-D	400
FWHM / FWTM	157.0 + 62.0°	73* 8%
Efficiency	90 %	1220
Peak intensity	2 cd/lm	60* 60*
LEDs/each optic	1	1630
Light colour	White	2000
Required component		457 2400 657
Required component	15.	2830
		3220
		3600
		30* 4000 30* 15* 30*
LED	XM-L	90*
LED FWHM / FWTM	XM-L 157.0 + 83.0°	75° 400 75°.
Efficiency	94 %	
Peak intensity	1.1 cd/lm	.60* <u>800</u> 60*
LEDs/each optic	1	
Light colour	White	1290
Required component		e
Required component	15.	1650
		2000
		XIIX
		30* <u>15° 2880 15</u> * 30*
LED	XM-L2	90* 90*
EED FWHM / FWTM	169.0 + 73.0°	75% 400 75*
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	1270
Required component		e. e.
Required component	no.	1500
		\times
		2000
		30* 15 ⁵ 0 ⁶ 15 ⁵ 30 ⁴
		THAT KEED
		90* 90*
	XP-E	750 800 755
FWHM / FWTM	158.0 + 73.0°	
Efficiency	93 %	80° 1000 80°
Peak intensity	2.3 cd/lm	$ \land \land$
LEDs/each optic	1	2130
Light colour	White	6. 6.
Required compone	NS:	3320
		X T X
		30° 4890 30°



		
		90* 90
LED	XP-E2	
FWHM / FWTM	156.0 + 72.0°	75* 900 75
Efficiency	93 %	
Peak intensity	2.5 cd/lm	60 ⁴ 1000 60 ⁴
LEDs/each optic	1	2430
Light colour	White	
Required compone		3220
		4000
		4930
		130* 133 ⁵ 0 ⁶ 15* 30*
	1	50° 00°
LED	XP-G	400
FWHM / FWTM	159.0 + 79.0°	125
Efficiency	89 %	
Peak intensity	1.6 cd/lm	1220
LEDs/each optic	1	1600
Light colour	White	45° 2000 65°
Required compone	nts:	2450
		2000
		30° 3200 0° 13° 30°
	•	
		\$0* 90*
LED	XP-G2	400
FWHM / FWTM	158.0 + 79.0°	20
Efficiency	94 %	50* 1230 50*
Peak intensity	1.8 cd/lm	100
LEDs/each optic	1	2000
Light colour	White	45'
Required compone	1fS:	24/20
		2800
		320
		30* 3500 13 ³ 0* 15* 30*
		INAMA
LED	XT-E	
FWHM / FWTM	157.0 + 61.0°	23
Efficiency	89 %	20
Peak intensity	1.8 cd/lm	.go* 1230 66*
LEDs/each optic	1	100
Light colour	White	45* 2000 (45)
Required compone		200
		200
		200



🕐 LUMIL	EDS	90*
LED	LUXEON A	
FWHM / FWTM	156.0 + 75.0°	75° 400 78°
Efficiency	92 %	
Peak intensity	1.6 cd/lm	60 <u>1200</u> 60*
LEDs/each optic	1	1600
Light colour	White	45* 43*
Required compone	nts:	2000
		2100
		2000
		200
		30° 115 ⁵ 00 ⁶ 15 ⁶ 30°
UMIL	EDS	90* 90*
LED	LUXEON R	400
FWHM / FWTM	153.0 + 73.0°	73°
Efficiency	92 %	00
Peak intensity	1.7 cd/lm	60* <u>1200</u> 60*
LEDs/each optic	1	1590
Light colour	White	45* 2000 45*
Required compone	nts:	2450
		220
		30* 30*
	EDC	
UMIL	EDS	80* 0 90*
LED	LUXEON Rebel	<u>81</u>
LED FWHM / FWTM	LUXEON Rebel 152.0 + 67.0°	90° 90°
LED FWHM / FWTM Efficiency	LUXEON Rebel 152.0 + 67.0° 92 %	90° 90° 730 000 75° 000 75°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm	9° 10° 10° 10° 10° 10° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1	90° 92° 73° 000 73° 80° 100 80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White	100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White	100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White	100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White	60° (0°)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts:	67 (97) 67 (10) 67 (10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts:	67 (97) 67 (10) 67 (10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White I White I LUXEON Rebel ES	67 (97) 67 (10) 67 (10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0°	60° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 %	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel 152.0 + 67.0° 92 % 2.5 cd/lm 1 White nts: EDS LUXEON Rebel ES 153.0 + 74.0° 90 % 1.7 cd/lm 1 White	



UMIL	EDS	90* 90'
LED	LUXEON T	400
FWHM / FWTM	155.0 + 76.0°	730 730
Efficiency	93 %	200
Peak intensity	2.3 cd/lm	50* 1226 50*
LEDs/each optic	1	1600
Light colour	White	6° 2000 65'
Required compone	nts:	
		2430
		2000
		2200
		30* 15 ⁵ 0 ⁶ 15* 30 ⁴
UMIL	EDS	90* 90°
LED	LUXEON TX	400
FWHM / FWTM	156.0 + 73.0°	75 77
Efficiency	94 %	
Peak intensity	1.7 cd/lm	50* <u>1230</u> 50*
LEDs/each optic	1	1500
Light colour	White	45* 2000 45*
Required compone	nts:	2450
		2800
		370
		30* 15° 30° 15* 30°
ØNICHI		90 ⁺
LED	NCSxx19A	
	NO3X13A	
FWHM / FWTM	151.0 + 65.0°	73° 800 75°
FWHM / FWTM		3 ³ 60 73
FWHM / FWTM Efficiency	151.0 + 65.0°	23 ³ 000 72 50 ³ 1500 60 ⁴
FWHM / FWTM Efficiency Peak intensity	151.0 + 65.0° 92 %	000 F2
FWHM / FWTM Efficiency	151.0 + 65.0° 92 % 2.2 cd/lm	23 ¹ 000 72 51 ⁴ 1 <u>60</u> 69 42 ¹ 200 69
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	151.0 + 65.0° 92 % 2.2 cd/lm 1 White	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White	5° 200 6°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts:	200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts:	5° 200 6°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts:	5° 200 6° 200 600
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts:	500 67 500 67 500 67 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts:	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0° 91 %	500 67 500 67 500 67 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0°	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed WHM / Component ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0° 91 % 1.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0° 91 % 1.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed WICHIA Equired componed FWHM / FWTM Efficiency Peak intensity LEDs/each optic	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0° 91 % 1.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0° 91 % 1.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	151.0 + 65.0° 92 % 2.2 cd/lm 1 White nts: NVSxx19A 153.0 + 71.0° 91 % 1.7 cd/lm 1 White	



ØNICHI	k i i i i i i i i i i i i i i i i i i i	90* 90
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	155.0 + 80.0° / 168.0 + 158.0°	75 400 73
Efficiency	92 %	800
Peak intensity	1.4 cd/lm	, and the second s
LEDs/each optic	1	
Light colour	White	45* 1630 45'
Required compone	nts:	
		2430
		30* 2200 30
OCDAM		139 00 139*
OSRAM Opto Semiconductors		90* 90
LED	OSLON Square EC	403
FWHM / FWTM	156.0 + 80.0°	3 0
Efficiency	93 %	
Peak intensity	1.7 cd/lm	60° 1220 60'
LEDs/each optic	1	1600
Light colour	White	45° 2000 45
Required compone	nts:	2430
		2000
		320
		30* 15° 38b 15* 30
OSRAM		
Opto Semiconductors		90* 99'
LED	OSLON Square PC	755 400 78
FWHM / FWTM	156.0 + 83.0°	800
Efficiency	93 %	
Peak intensity		50* 1200 60*
	1.7 cd/lm	
LEDs/each optic	1	100
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required component	1 White	100
LEDs/each optic Light colour	1 White	-5° - 209 - 47
LEDs/each optic Light colour	1 White	57 <u>300</u> 200
LEDs/each optic Light colour	1 White	5° 209 4° 209 209
LEDs/each optic Light colour Required componen	1 White	
LEDs/each optic Light colour Required componed	1 White nts:	
LEDs/each optic Light colour Required componed Optic Semiconductors LED	1 White nts: OSLON SSL 150	
LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM	1 White nts: OSLON SSL 150 157.0 + 86.0°	
LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 %	
LEDs/each optic Light colour Required componen Ostroamenous Detro Semiconductors LED FWHM / FWTM Efficiency Peak intensity	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 % 2.9 cd/lm	
LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 % 2.9 cd/lm 1	
LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 % 2.9 cd/lm 1 White	
LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 % 2.9 cd/lm 1 White	
LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 % 2.9 cd/lm 1 White	
LEDs/each optic Light colour Required componen OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: OSLON SSL 150 157.0 + 86.0° 92 % 2.9 cd/lm 1 White	



OSRAM Opto Semiconductors		90* 90*
LED	OSLON SSL 80	
FWHM / FWTM	147.0 + 52.0°	73°
Efficiency	89 %	50 ⁴ 100 50 ⁴
Peak intensity	1.9 cd/lm	50 ¹⁴ 5500 60 ⁴ .
LEDs/each optic	1	2430
Light colour	White	45' 53'
Required componer	ts:	2 ¹ , ²² , ⁴² , ²² , ²³ , ²⁴ , ²⁴ , ²⁵ ,
CARACI		125
SAMSU		90* 90*
LED	LH351Z	400
FWHM / FWTM	154.0 + 76.0°	20
Efficiency	94 %	
Peak intensity	1.7 cd/lm	60* <u>1200</u> 60*
LEDs/each optic	1	1630
		5° 200 6°



PHOTOMETRIC DATA (SIMULATED):

		90* 90*
LED	XHP35 HD	
FWHM / FWTM	164.0 + 68.0°	7.50 7.50
Efficiency	91 %	400
Peak intensity	0.8 cd/lm	60 60
LEDs/each optic	1	
Light colour	White	15°
Required components:		1000
		1290
		1430
		30* 1630 13 ⁵ 0 ⁶ 10 [*] 30 [*]
		90° 90°
LED	XHP35 HI	
FWHM / FWTM	162.0 + 51.0° / 176.0 + 146.0°	12 c
Efficiency	90 %	40
Peak intensity	0.9 cd/lm	50%
LEDs/each optic	1	800
Light colour	White	45° 1000 45°
Required components:		1200
		1430
		1600
		1800
		30° 15 ⁵ 0° 15° 30°
		90* 90*
LED	XP-L HI	
LED FWHM / FWTM	XP-L HI 159.0°	73* 400 70'
FWHM / FWTM		23- 40 72.
FWHM / FWTM Efficiency	159.0°	90 - 67.
FWHM / FWTM Efficiency Peak intensity	159.0° 89 %	201 400 72 201 600 607 202 607
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	159.0° 89 % 1.3 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	159.0° 89 % 1.3 cd/lm 1	60° 60°.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	159.0° 89 % 1.3 cd/lm 1	60° 60°.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	159.0° 89 % 1.3 cd/lm 1	60° 60°.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	159.0° 89 % 1.3 cd/lm 1	6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1	60° 60°.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White)	6 ¹ 1222 6 ¹ 1222 6 ¹ 1222 6 ¹ 1222 6 ² 1222 1223 1233 1235 12 12 12 12 12 12 12 12 12 12 12 12 12 1
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0°	6 ¹ 1222 6 ¹ 1222 6 ¹ 1222 6 ¹ 1222 6 ² 1222 1223 1233 1235 12 12 12 12 12 12 12 12 12 12 12 12 12 1
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 %	6° 60 60 60 60 1200 1200 100 100 100 100 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm	6° 60 60 60 60 1200 1200 100 100 100 100 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm 1	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm	6° 60 60 60 60 1200 1200 100 100 100 100 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm 1	6° 60 60 60 60 1200 1200 100 100 100 100 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm 1	6° 60 60 60 60 1200 1200 100 100 100 100 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm 1	6° 60 60 60 60 1200 1200 100 100 100 100 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	159.0° 89 % 1.3 cd/lm 1 White NF2W757G-MT (Tunable White) 159.0 + 59.0° / 172.0 + 158.0° 94 % 1.1 cd/lm 1	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		8°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	158.0 + 70.0°	75.
Efficiency	93 %	800
Peak intensity	1.5 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	45° 550 55°
Required components		200
		2439
		200
		13 ³ - 15 ⁴
SAMSU	NG	5y ⁴ 29 ⁴
SAMSU	NG LH351D	97
		39 ⁴
LED	LH351D	9* 9* 9* 90*
LED FWHM / FWTM	LH351D 86.0 + 164.0° / 166.0 + 176.0°	
LED FWHM / FWTM Efficiency	LH351D 86.0 + 164.0° / 166.0 + 176.0° 91 %	55 ⁴ 600 671
LED FWHM / FWTM Efficiency Peak intensity	LH351D 86.0 + 164.0° / 166.0 + 176.0° 91 % 0.7 cd/lm	60 ⁴ 607
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D 86.0 + 164.0° / 166.0 + 176.0° 91 % 0.7 cd/lm 1 White	60° 60°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 86.0 + 164.0° / 166.0 + 176.0° 91 % 0.7 cd/lm 1 White	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 86.0 + 164.0° / 166.0 + 176.0° 91 % 0.7 cd/lm 1 White	60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D 86.0 + 164.0° / 166.0 + 176.0° 91 % 0.7 cd/lm 1 White	61 ⁴ 60 60 67 67 100 67



PRODUCT DATASHEET C13155_EMERALD-A

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

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