

PRODUCT DATASHEET FCA12077_IRIS

IRIS

 ${\sim}5^\circ$ real spot beam optimized for CREE XP-E. Assembly with holder and installation tape.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 38.0 mm
Height	27.1 mm
Fastening	glue, tape, pin, screw
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

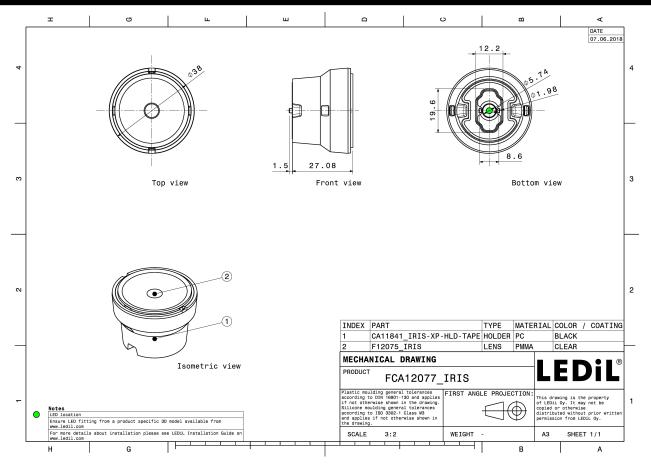
Component	Туре	Material	Colour	Finish
IRIS	Single lens	PMMA	clear	
IRIS-XP-HLD-TAPE	Assembly	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FCA12077_IRIS	Single lens	378	126	42	8.9
» Box size: 480 x 280 x 300 mm					



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





		50° 50°
LED	XHP35 HD	
FWHM / FWTM	10.0° / 23.0°	8'
Efficiency	89 %	
Peak intensity	18.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr ar
Required compone		1. Store
		20% 1200 34
	•	/ <u>20</u> / dy <u>12</u> 7
		90* 90
LED	XHP35 HI	75
FWHM / FWTM	7.6° / 17.0°	
Efficiency	90 %	90 ⁴
Peak intensity	35.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		30 ⁴ 30 ⁴ 30 ⁴
	_	
		20'
		90 ⁴
LED	XP-E	30*
LED FWHM / FWTM		
LED	XP-E 4.0° / 9.0°	94°
LED FWHM / FWTM Efficiency	XP-E 4.0° / 9.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm	90 ⁴ 9100 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 % 103.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 % 103.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 % 103.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 % 103.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 % 103.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E 4.0° / 9.0° 93 % 87.4 cd/lm 1 White nts: XP-E2 5.0° / 9.0° 93 % 103.9 cd/lm 1 White	





		7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 6.0° / 14.0° 94 % 46.4 cd/lm 1 White	
CREE LEO FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 6.0° / 14.0° 95 % 46 cd/lm 1 White	
CREE (LEC) FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-P 3.0° / 8.0° 96 % 152.7 cd/lm 1 White	
CREE LEO FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HI 3.9° / 9.0° 88 % 123.3 cd/lm 1 White	





		90* 8 90°
LED	XT-E	
FWHM / FWTM	6.0° / 13.0°	78
Efficiency	91 %	
Peak intensity	44 cd/lm	
LEDs/each optic	1	
Light colour	White	95° 2500 93'
Required componer	nts:	
		and the second s
		30-
	EDS	90 ⁴ 90 ⁹
LED	LUXEON Rebel	
FWHM / FWTM	5.0° / 9.0°	75
Efficiency	%	
Peak intensity	75.6 cd/lm	60 ⁺ 2 60 ⁺ 60 ⁺
LEDs/each optic	1	
Light colour	White	13 ²
Required componer		
· · · · · · · · · · ·		
		30-
	EDS	90° 90° 900
		90° 90' 15'
LED	LUXEON Rebel ES	
LED FWHM / FWTM	LUXEON Rebel ES 7.0° / 14.0°	
LED FWHM / FWTM Efficiency	LUXEON Rebel ES 7.0° / 14.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES 7.0° / 14.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts:	30 60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 % 40.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Equired componer VELUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 % 40.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component VED EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 % 40.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Equired componer VELUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 % 40.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component VED EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 % 40.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES 7.0° / 14.0° 93 % 38.5 cd/lm 1 White hts: EDS LUXEON T 7.0° / 14.0° 94 % 40.2 cd/lm 1 White	



	.EDS	20 ²⁰ 20 ²⁰
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 6.9° / 15.0° 89 % 43.1 cd/lm 1 White	
	EDS	Lumoaine LEDL (by FDA12077, JBS, 22, ES) Langes 1: Philose, Lumieles Lucase Z, ES, (22, 22, 4070) JB 45 62520mg/250m, 49 - 30 4389 / j243 6 mA 29 *
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone EED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	LUXEON Z ES 4.0° / 9.0° 93 % 94.1 cd/lm 1 White ents: NCSxx19A 5.0° / 11.0° % 1 White	10000 9000 4000 2000 1000 2000 1000 2000 1000 2000 1000 2000 1000 2000 1000 2000 1000 2000 1000
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F 7.0° / 16.0° 94 % 35.7 cd/lm 1 White	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A 8.0° / 18.0° 89 % 26.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19A 6.0° / 14.0° 93 % 38.7 cd/lm 1 White ents:	
ØNICHI	\	»·
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 7.0° / 15.0° 92 % 36.6 cd/lm 1 White ents:	73 73 73 75 75 75 75 75 75 75 75 75 75 75 75 75
		125 [°] 0 [°] 125 [°]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NWSx229A 10.0° / 21.0° 91 % 18.6 cd/lm 1 White	



OSDAM		
OSRAM Opto Semiconductors		90 ⁴ 90 ⁴
LED	OSLON Square EC	75
FWHM / FWTM	6.0° / 12.0°	
Efficiency	92 %	59 ⁴
Peak intensity	52 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a,
Required compone	ents:	200
		30-
OSRAM		
Opto Semiconductors	OSLON SSL 150	
LED FWHM / FWTM	4.0° / 9.0°	73-
Efficiency	4.0° / 9.0° 94 %	
Peak intensity	94 % 101 cd/lm	60 ¹ 60 ¹
LEDs/each optic	1	
Light colour	White	gr and a second se
Required compone		
rioquirou compone		200
		204 10000 340
		257 of 157
OSRAM Opto Semiconductors		
LED	OSLON SSL 80	
FWHM / FWTM	4.0° / 9.0°	
Efficiency	90 %	
Peak intensity	89 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
0 0 0 0 0		
SAMSI	JNG	<u>90*</u> 90
LED	LH351Z	75
FWHM / FWTM	7.0° / 15.0°	
Efficiency	89 %	60 ⁴ 60 ⁴
Peak intensity	48.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		\times / $1 \times \lambda$
		30* 51200 30
		15 ⁷ 0 ⁷ 15 ⁹



SEOUL		90* A 90'
LED	Z5M3	
FWHM / FWTM	7.0° / 16.0°	75°
Efficiency	92 %	60*
Peak intensity	30 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	ents:	
		20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰





CREESILED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XD16 6.0° / 14.0° 91 % 47.9 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE 8.0° / 18.0° 92 % 29.7 cd/lm 1 White	25
		105 3000 105
CREE LED	XP-G3 7.7° / 18.0° 91 % 28.7 cd/lm 1 White	59 ⁴ 75 75 100 100 100 100 100 100 100 10
CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-L HD 8.6° / 19.0° 93 % 25.3 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°



CREE LED	XQ-E HD 5.3° / 11.0° 94 % 77.8 cd/lm 1 White	91° 91° 73° 72° 72° 60° 86° 60° 86° 60° 60° 86° 86° 86° 86° 86° 86° 86° 86° 86° 86
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XQ-E HD 5.0° / 11.5° 93 % 80 cd/lm 1 White	
		<u>39*</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 7.0° / 15.0° 94 % 38.6 cd/lm 1 White	34- 201 201 201 201 201 201 201 201 201 201
	05	1 15 [°] 0 ⁸ 15 [°]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON SunPlus 20 Line (150 deg) 6.0° / 14.0° 90 % 42.7 cd/lm 1	



)S		90* S
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON SunPlus 35 Line 6.0° / 15.0° 94 % 49.9 cd/lm 1 Blue		25°
	JS	· · · · · ·	
LED	SST-10-B130		
FWHM / FWTM	6.0° / 13.0°		695 G
Efficiency	94 %		
LEDs/each optic Light colour	1 IR		
Required components:			
rioquilou componente.			
			30* 51200 32
(ce			135 ⁷ 0 ⁰ 135 ⁴
	JS		90* 90
LED	SST-20		75
FWHM / FWTM	6.0° / 14.0°		
Efficiency	93 %		600
Peak intensity	48.4 cd/lm		
LEDs/each optic Light colour	1 White		
Required components:	Wille		
			30" 51200 15" St
OSRAM Opto Semiconductors			40) W 35'
LED	Duris S5 (Single chip)		
FWHM / FWTM	6.0° / 14.0°		78*
Efficiency	94 %		55.5
Peak intensity	48.2 cd/lm		
LEDs/each optic	1		
Light colour	Yellow		4°*
Required components:			
			34
			30° 51200 30 15° 0° 35°



OSRAM Opto Semiconductors		90* 90
	Duris S5 (Single chip)	
	4.0° / 12.0°	18.
	93 %	
-	74.7 cd/lm	
LEDs/each optic	1	
Light colour	' Red	45"
Required components:	Neu	
rtequired components.		
		30° 76800 30 15° 0° 15°
OSRAM		90* 99
Opto Semiconductors	Duric S5 (Single chin)	
	Duris S5 (Single chip)	73.
	4.0° / 12.0°	
	93 % 72 5 cd/m	60° 2560 60
	72.5 cd/lm	
LEDs/each optic	1	
, e	Green	
Required components:		9220
		X X
		30° 78000 30 15° 0° 15°
OSRAM		440 J 7 440
Opto Semiconductors		
	OSCONIQ P 3737 (2W version)	
	6.0° / 14.0°	
	94 %	
	46.2 cd/lm	
LEDs/each optic	1	
, e	White	
Required components:		
OSRAM Onto Semiconductors		90*
LED	OSLON Black Flat	
	6.0° / 14.0°	75
	94 %	
Peak intensity	48.9 cd/lm	
LEDs/each optic	1	
	White	47 / 1
Light colour	AAUIG	
Light colour Required components:		



[
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Black Flat 4.2° / 10.0° 94 % 92 cd/lm 1 White	90 ⁴ 97 97 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98
OSRAM		139 100 25'
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 6.4° / 14.0° 94 % 48.3 cd/lm 1 White	200 Diana di anti- 200 Di
OSRAM		
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSTAR Projection Compact (Kx.CSLNM1.xx) 6.0° / 12.0° 94 % 76.4 cd/lm 1 White	201
		15 0 15



OSRAM		
Opto Semiconductors		
LED	SFH 4716AS	
FWHM / FWTM	6.0° / 12.0°	
Efficiency	94 %	
LEDs/each optic	1	
Light colour	IR	
Required components:		
SAMSUN	IG	90° 90°
LED	LH351C	
FWHM / FWTM	8.0° / 18.0°	55 54
Efficiency	93 %	605
Peak intensity	31.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	\$7. <u>19700</u> \$7.
Required components:		
		\times / / \times
		30. 3000 30.
SAMSUN	IG	
		30"
LED FWHM / FWTM	LH351D 9.3° / 21.0°	75. 75
Efficiency	90 %	
	90 /8	60°
Peak intensity		
Peak intensity	21 cd/lm	$\left[\times / / \cdot \right] \times 1$
LEDs/each optic	21 cd/lm 1	a ^r
LEDs/each optic Light colour	21 cd/lm	¢ [*] , <u>1300</u> , ¢*,
LEDs/each optic	21 cd/lm 1	gr (100
LEDs/each optic Light colour	21 cd/lm 1	90 ⁻ 3300
LEDs/each optic Light colour	21 cd/lm 1	97 - 1300 - 67 300 - 207
LEDs/each optic Light colour Required components:	21 cd/lm 1	
LEDs/each optic Light colour Required components:	21 cd/lm 1 White	24
LEDS/each optic Light colour Required components: seous semiconductor LED	21 cd/lm 1 White Z8Y22P	20° 0° 13° 30°
LEDS/each optic Light colour Required components: scoul semiconductor LED FWHM / FWTM	21 cd/lm 1 White Z8Y22P 8.0°	20° 0° 13° 30°
LEDs/each optic Light colour Required components: stoll semiconductor LED FWHM / FWTM Efficiency	21 cd/lm 1 White Z8Y22P 8.0° 98 %	
LEDs/each optic Light colour Required components: stoll semiconductor LED FWHM / FWTM Efficiency Peak intensity	21 cd/lm 1 White Z8Y22P 8.0° 98 % 29.9 cd/lm	
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21 cd/lm 1 White Z8Y22P 8.0° 98 % 29.9 cd/lm 1	
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21 cd/lm 1 White Z8Y22P 8.0° 98 % 29.9 cd/lm	20° 0° 13° 30°
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21 cd/lm 1 White Z8Y22P 8.0° 98 % 29.9 cd/lm 1	20° 0° 13° 30°
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21 cd/lm 1 White Z8Y22P 8.0° 98 % 29.9 cd/lm 1	20° 0° 13° 30°
LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21 cd/lm 1 White Z8Y22P 8.0° 98 % 29.9 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:

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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