

# PRODUCT DATASHEET IRIS

# IRIS

~10° spot beam with holder

#### **SPECIFICATION:**

Dimensions	Ø 38.0 mm
Height	28.5 mm
Fastening	glue, screw
ROHS compliant	yes 🛈

#### **MATERIALS:**

Component C10781\_IRIS C10860\_IRIS-HLD **Type** Single lens Holder



Material	Colour	Finish
PMMA	clear	
PC	black	

#### **ORDERING INFORMATION:**

#### Quantities for one set:

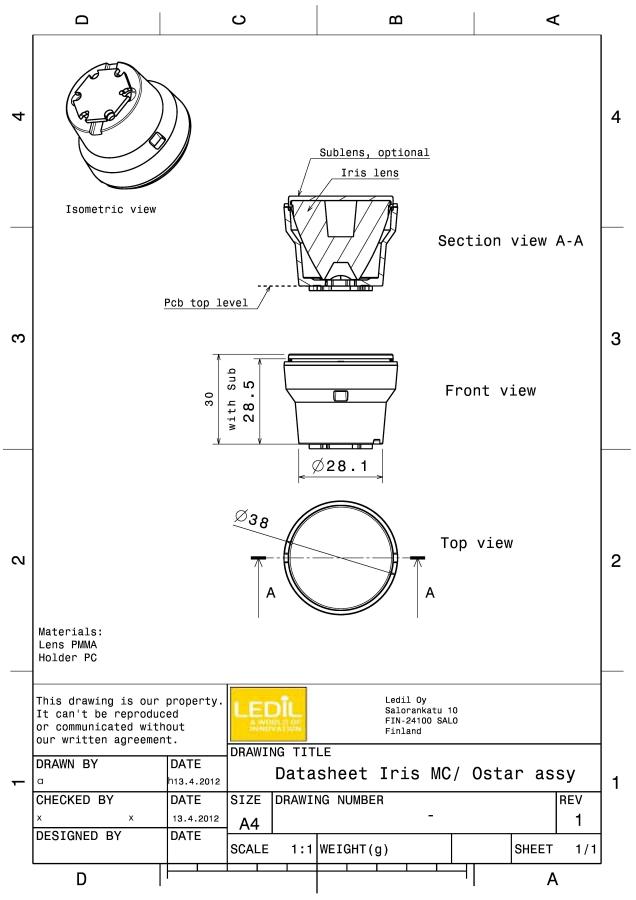
Single lens	1	
Holder	1	



Component		Qty in box	MOQ	MPQ	Box weight (kg)
C10781_IRIS » Box size: 480 x 280 x 300 mm	Single lens	580	116	58	9.0
C10860_IRIS-HLD » Box size: 480 x 280 x 300 mm	Holder	1044	116	29	7.2



PRODUCT DATASHEET IRIS



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



# **OPTICAL RESULTS (MEASURED):**

		90* 90*
LED	MC-E	
FWHM / FWTM	11.0° / 24.0°	3200
Efficiency	89 %	60°
Peak intensity	15 cd/lm	5430 × 5430
LEDs/each optic	1	
Light colour	White	er er
Required component	is:	
		30* 35*
		159 16000 159
		90*
	MHD-E/G	75-
	17.0° / 37.0°	
	91 %	60° 60°
	5.7 cd/lm	$\times$ / / $\times$
	1	3230
-	White	× / / ×
Required component	is:	
		4530
		300 00 00 300
		90*
LED	XHP50	25- 26- 27- 27- 27- 27- 27- 27- 27- 27- 27- 27
LED FWHM / FWTM	16.0° / 33.0°	39 <sup>4</sup> 39 100
LED FWHM / FWTM Efficiency	16.0° / 33.0° 81 %	50°
LED FWHM / FWTM Efficiency Peak intensity	16.0° / 33.0° 81 % 6.6 cd/lm	9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 81 % 6.6 cd/lm 1	37 66 <sup>1</sup> 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 81 % 6.6 cd/lm 1 White	37 66 <sup>1</sup> 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White	75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White	75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White	75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	16.0° / 33.0° 81 % 6.6 cd/lm 1 White	75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0°	30, 30, 30,   30, 70, 6, 75,   30, 90, 90, 90,   40, 30,5 90, 90,   100 100 90, 90,   100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 %	30, 30, 30,   30, 70, 6, 75,   30, 90, 90, 90,   40, 30,5 90, 90,   100 100 90, 90,   100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 % 8.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 % 8.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 % 8.2 cd/lm 1 White 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 % 8.2 cd/lm 1 White 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 % 8.2 cd/lm 1 White 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 33.0° 81 % 6.6 cd/lm 1 White is: XHP50.2 16.0° / 30.0° 83 % 8.2 cd/lm 1 White 1	



# **OPTICAL RESULTS (MEASURED):**

<b>M</b>			
CONTRACTOR OF CONTRACTOR CONTRA T	LUXEON CZ 5.0° / 11.0° 80 % 57 cd/lm 1 White		
	FDS		90 <sup>4</sup> 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON M/MX 16.0° / 30.0° 87 % 9.1 cd/lm 1 White		31 <sup>2</sup> 600 32
	FDC		35 <sup>5</sup> 0 <sup>6</sup> 135 <sup>5</sup>
CONTRACT OF CONTRACT.	LUXEON MZ 12.0° / 22.0° 82 % 15.8 cd/lm 1 White		
~			
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NFMW48xA 12.0° / 25.0° 84 % 12.8 cd/lm 1 White		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°



# **OPTICAL RESULTS (MEASURED):**

OSRAM		40 <sup>+</sup>
Opto Semiconductors	Duris S10	50° 50°
FWHM / FWTM	13.0° / 29.0°	75
Efficiency	79 %	
Peak intensity	8.8 cd/lm	64 <sup></sup> 300
LEDs/each optic	1	
Light colour	White	gr ar
Required compone		400
		30 <sup>4</sup> 10 <sup>5</sup> 990 10 <sup>5</sup>
OSRAM Opto Semiconductors		
LED	Duris S8	
FWHM / FWTM	11.0° / 24.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	WICOP 5050 16.0° / 36.0° 77 % 5.8 cd/lm 1 White nts:	
SEOUL SEOUL SEMICONDUCTOR		
LED	Z5M1/Z5M2	
FWHM / FWTM	7.0° / 14.0°	
Efficiency	83 %	
Peak intensity	40.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Bridgelux SMD 5050 13.0° / 25.0° 91 % 13.2 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 5050B 6V K Class 12.0° / 24.0° 90 % 14.2 cd/lm 1 White	55 50 50 50 50 50 50 50 50 50
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	J Series 5050C 6V E Class 12.0° / 24.0° 89 % 15.1 cd/lm 1 White	25° 0° 15° 26° 27° 0° 15° 28° 28° 28° 28° 28° 28° 28° 28
CREE ÷ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XD16 8.0° / 16.0° 82 % 30.1 cd/lm 1	99 99 99 99 99 99 99 99 99 99 99 99 99



		90° 90°
	XHP35 HD	
LED FWHM / FWTM	11.0° / 22.0°	75'
Efficiency	91 %	60° 6400 60°
Peak intensity	18.3 cd/lm	
LEDs/each optic	1	gr gr
Light colour	White	
Required components:		
		30° 19000 36° 36°
		50* 50*
LED	XHP35 HI	
FWHM / FWTM	10.0° / 18.0°	75'
Efficiency	90 %	
Peak intensity	26.9 cd/lm	694 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	gr
Required components:		1900
rioquirou componento.		
		30* 30*
		15 0 15
CREE ≑		25 <sup>5</sup> 0 <sup>4</sup> 25 <sup>5</sup>
LED	XHP35.2 HD	35' 6' 15'   99' 99' 99'
LED FWHM / FWTM	12.0° / 26.0°	
LED FWHM / FWTM Efficiency	12.0° / 26.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity	12.0° / 26.0° 87 % 12.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 87 % 12.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 87 % 12.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 87 % 12.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 87 % 12.5 cd/lm 1	500 600 610 600 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 87 % 12.5 cd/lm 1	73° 600 5° 600 600 600 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 87 % 12.5 cd/lm 1	99 99 99 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 26.0° 87 % 12.5 cd/lm 1	77 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 components:	12.0° / 26.0° 87 % 12.5 cd/lm 1 White	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 26.0° 87 % 12.5 cd/lm 1 White	77 610 610 600 800 800 800 800 800 800 800 800 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED ED FWHM / FWTM	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0°	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0° 87 %	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0°	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0° 87 % 13.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0° 87 % 13.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0° 87 % 13.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0° 87 % 13.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 87 % 12.5 cd/lm 1 White XHP50.3 HD 14.0° / 24.0° 87 % 13.3 cd/lm 1	



		90* 90*
		Ĩ A Ĩ
LED	XHP50.3 HI	75. 75.
FWHM / FWTM	12.0° / 22.0°	
Efficiency	88 %	60° 600 60°
Peak intensity	17.6 cd/lm	$\wedge $ / / $\wedge $ $\wedge $ /
LEDs/each optic	1	
Light colour	White	g
Required components:		12800
		30°
		90° 90°
LED	XHP70.2	73'
FWHM / FWTM	20.0° / 36.0°	
Efficiency	84 %	60*
Peak intensity	5.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er / / / / / / / / / / / / / / / / / / /
Required components:		$\times$
		4830
		30° 36°
		15° 5600 25°
CREE =		
LEDS		90* 90*
	XHP70.3 HD	
	XHP70.3 HD 18.0° / 34.0°	5° 5° 5°
LED FWHM / FWTM		73
LED FWHM / FWTM Efficiency	18.0° / 34.0°	200 J20 200 60*
LED FWHM / FWTM Efficiency Peak intensity	18.0° / 34.0° 86 %	73
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	18.0° / 34.0° 86 % 7 cd/lm	27 200 200 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	18.0° / 34.0° 86 % 7 cd/lm 1	31 64 223
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	18.0° / 34.0° 86 % 7 cd/lm 1	c. 61 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	18.0° / 34.0° 86 % 7 cd/lm 1	c. 61 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	18.0° / 34.0° 86 % 7 cd/lm 1	6. 61 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1	6. 61 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1	6. 61 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White	6. 61 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI	6. 61 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0°	br. br.   32. 0.   60. 0.0   61. 0.0   62. 0.0   63. 0.0   64. 0.0   65. 0.0   66. 0.0   70.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 %	br. br.   32. 0.   60. 0.0   61. 0.0   62. 0.0   63. 0.0   64. 0.0   65. 0.0   66. 0.0   70.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 % 12.8 cd/lm	br. br.   32. 0.   60. 0.0   61. 0.0   62. 0.0   63. 0.0   64. 0.0   65. 0.0   66. 0.0   70.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 % 12.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 % 12.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 % 12.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 % 12.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	18.0° / 34.0° 86 % 7 cd/lm 1 White XHP70.3 HI 14.0° / 26.0° 88 % 12.8 cd/lm 1	



		90°
LED	XP-E2	
FWHM / FWTM	8.0° / 14.0°	$\wedge \wedge \uparrow$
Efficiency	90 %	60 <sup>4</sup> 2200 60 <sup>+</sup>
Peak intensity	41.4 cd/lm	$f \vee / /   \wedge \vee \rangle$
LEDs/each optic	1	
Light colour	White	93 °
Required components:		
		30° 34°
	5	15 <sup>5</sup> 0 <sup>8</sup> 15 <sup>5</sup>
LED		
ED FWHM / FWTM	LUXEON 3030 2D (Round LES)	75
	8.0° / 17.0° 88 %	
Efficiency Roak intensity	30.9 cd/lm	60* 60*
Peak intensity LEDs/each optic	1	
Light colour	ı White	ar ar
Required components:	Wilke	
Required components.		
		30 <sup>6</sup> 3000 30 <sup>6</sup> 30 <sup>6</sup>
	)S	90*
LED	LUXEON 5050 Round LES	
FWHM / FWTM	13.0° / 24.0°	75"
Efficiency	91 %	
Peak intensity	15 cd/lm	60° (610)
LEDs/each optic	1	
Light colour	White	43°
Required components:		
		30. 30.
		15° 1000 15°
LED	LUXEON 5258	
FWHM / FWTM	11.0° / 22.0°	
Efficiency	89 %	
Peak intensity	17.8 cd/lm	
LEDs/each optic	1 M/Fite	
Light colour	White	
Required components:		



	)S	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 18.0° / 34.0° 86 % 7.1 cd/lm 1 White	20 21 21 22 22 22 22 23 23 23 23 23 23
	JS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 8.0° / 16.0° 92 % 39.7 cd/lm 1 White	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	16	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SST-12 8.0° / 14.0° 90 % 43.6 cd/lm 1 White	
	JS	90* 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SST-20 8.0° / 16.0° 88 % 34.3 cd/lm 1 White	25 61 500 30 <sup>4</sup> 30



	S	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SST-40 10.0° / 21.0° 90 % 19.9 cd/lm 1 White	20 0 0 0 0 0 0 0 0 0 0 0 0 0
<b>ΜΝΙCΗΙΛ</b>		50* 6 50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G 8.0° / 18.0° 91 % 30.1 cd/lm 1 White	
OSRAM		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ P 7070 14.0° / 23.0° 87 % 13.5 cd/lm 1 White	227 64 122 24. 64. 610 610 610 610 610 610 610 610
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Black Flat (LUW HWQP) 8.0° / 14.0° 88 % 45.2 cd/lm 1 White	20 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70



OSDAM		
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Black Flat S (KW HHL532.TK) 8.0° / 14.0° 88 % 44.5 cd/lm 1 White	
OSRAM		90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	OSLON Black Flat S (KW2 HIL532.TK) 8.0° / 16.0° 88 % 34.2 cd/lm 1 White	6. 6. 200
Required components:		30 <sup>4</sup> 137 0 <sup>4</sup> 35 <sup>4</sup> 35 <sup>4</sup>
OURSEAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Compact PL (KW2 CFLNM2.TK) 8.0° / 16.0° 89 % 37.2 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 7.9° / 16.0° 89 % 36.5 cd/lm 1 White	25 <sup>°</sup> 0° 35 <sup>°</sup>



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square Flat 12.0° / 25.0° 87 % 13.8 cd/lm 1 White	30. 20. 20. 20. 20. 20. 20. 20. 2
OSRAM Opto Semiconductors		 80 20 20
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SFH 4715AS 8.0° / 16.0° 89 % 1 IR	30 57 50 50 50 50 50 50 50 50 50 50
OSRAM		
Depto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SFH 4716AS 8.0° / 15.0° 88 % 1 IR	Q1 Q2 Q2   Q2 Q2 Q2   Q3 Q3 Q4   33 Q3 Q5
		30 <sup>6</sup> 30 <sup>5</sup> 00 30 <sup>6</sup>



OSRAM Opto Semiconductors		90° 90°
LED	SFH 4770S	73*
FWHM / FWTM	8.1° / 16.6°	
Efficiency	91 %	605 60*
Peak intensity	3.4 cd/lm	
LEDs/each optic	1	
Light colour	IR	97°
Required components:		
		30° 35° 0° 35°
SEQUE		50* 50*
SEOUL SEMICONDUCTOR	Z8Y22P	
FWHM / FWTM	6.0°	75
Efficiency	89 %	
Peak intensity	43.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	5° 500 5°
Required components:		$\land$ / / $\land$ /
		$\times$
		30* 32*
		15° 0° 15°
SEOUL SEOUL SEMICONDUCTOR		99 <sup>4</sup> 99 <sup>4</sup> 39 <sup>5</sup>
SECUL SEMICONDUCTOR	Z8Y50P	90 <sup>4</sup> 30 <sup>5</sup>
SEOUL SEMICONDUCTOR	Z8Y50P 16.0° / 28.0°	33. 35.   95. 95.   95. 95.
seoul semiconductor LED		25° 0° 15° 26° 25°
seoul semiconductor LED FWHM / FWTM	16.0° / 28.0°	15 <sup>17</sup> 0 <sup>14</sup> 15 <sup>17</sup> 90 <sup>14</sup> 90 <sup>14</sup> 90 <sup>14</sup> 75 <sup>17</sup> 70 <sup>14</sup> 30 <sup>10</sup> 90 <sup>14</sup> 30 <sup>10</sup> 60 <sup>14</sup>
seoul semiconductor LED FWHM / FWTM Efficiency	16.0° / 28.0° 84 %	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	16.0° / 28.0° 84 % 9.4 cd/lm	gr 200 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 84 % 9.4 cd/lm 1	75°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1	gr 200 60
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1	75 64 77 77 77 77 77 77 77 77 77 77 77 77 77
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1	75°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	16.0° / 28.0° 84 % 9.4 cd/lm 1	75 64 77 77 77 77 77 77 77 77 77 77 77 77 77
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1 White	75°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P	Ba. Ba.   Ba.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0°	75°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 %	30. 30. 30.   30. 30. 30.   30. 30. 30.   30. 30. 30.   30. 30. 30.   30. 30. 30.   30. 30. 30.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0°	25 26 27 27 27 27 27 27 27 27 27 27
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 % 9.3 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 % 9.3 cd/lm	22. 230. 04.   33. 30. 04.   35. 06. 05.   36. 06. 05.   36. 06. 05.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   36. 06. 06.   37. 06. 06.   36. 06. 06.   37. 06. 06.   36. 06. 06.   37. 06. 06.   37. 06. 06.   37. 06. 06.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 % 9.3 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 % 9.3 cd/lm 1	25 250 00   90* 000 00   90* 000 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00   90* 00 00
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 % 9.3 cd/lm 1	75* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 90*   95*
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 28.0° 84 % 9.4 cd/lm 1 White Z8Y50P 16.0° / 30.0° 84 % 9.3 cd/lm 1	75* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 305   95* 90*   95*



#### **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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