

# ANGELA-S-B

~10°	spot	beam	compatible	with	BJB
conne	ctors				

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 119.5 mm
Height	74.5 mm
Fastening	socket
ROHS compliant	yes 🛈



#### **MATERIAL SPECIFICATIONS:**

Component	Туре	Material	Colour	Finish	Coating
ANGELA-S-B	Reflector	PC	metal		HMDS

#### **ORDERING INFORMATION:**

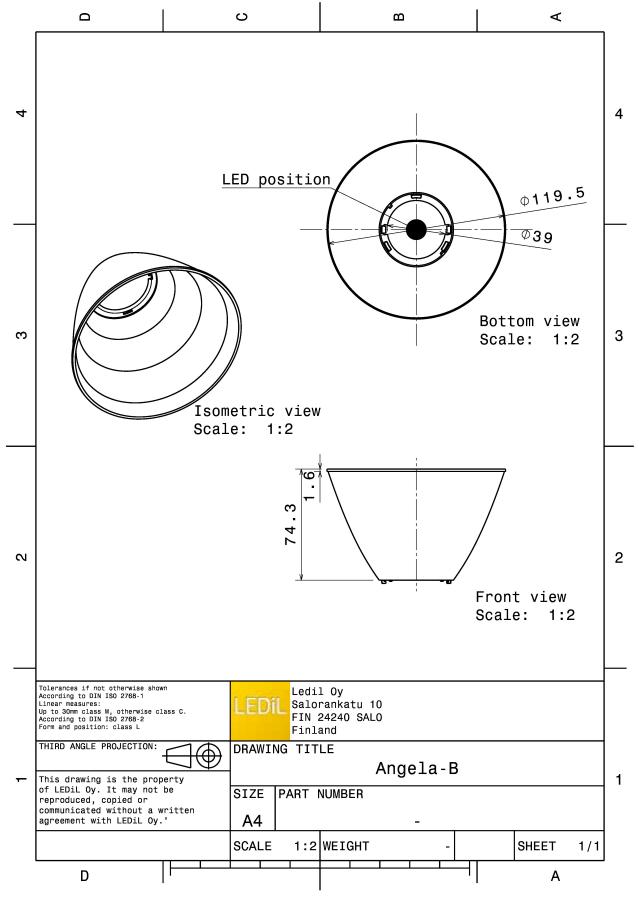
#### Component

- F13662\_ANGELA-S-B
- » Box size: 398 x 298 x 265 mm

Qty in box	MOQ	MPQ	Box weight (kg)
180	90	45	8.6

PRODUCT DATASHEET F13662\_ANGELA-S-B





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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.204		20, 12, 0, 12, 20, 10, 20, 20, 20, 10, 20, 0, 20, 20, 10, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I BJB: 47.319.227	RZ-LENS	30, 30, 40, 40, 500 500 500 500 500 500 500 5
bridgetux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.222		3), 3), 2), 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I BJB: 47.319.227	RZ-LENS	30. 32. 6. 32.   30. 32. 32. 32.   33. 32. 32. 32.



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.227		34. 25. 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.235		20 20 20 20 20 20 20 20 20 20
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH	RZ-LENS	



CITIZE	N	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.202	CLL03x/CLU03x 9.0° / 17.0° 94 % 18.3 cd/lm 1 White nts:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F A.A.G. STUCCH	CLL03x/CLU03x 10.0° / 23.0° 86 % 10.8 cd/lm 1 White nts: RZ-LENS	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLL03x/CLU03x 10.0° / 18.0° 93 % 15.4 cd/lm 1 White nts:	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	CLL04x/CLU04x 15.0° / 29.0° 92 % 7.3 cd/lm 1 White nts:	



CITIZE	N.	301
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE A.A.G. STUCC	CLL04x/CLU04x 15.0° / 35.0° 86 % 5.9 cd/lm 1 White ents: -RZ-LENS	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLL04x/CLU04x 15.0° / 30.0° 92 % 6.9 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCC	CLU720/721 7.0° / 14.0° 94 % 25 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.20	CLU720/721 7.0° / 14.0° 94 % 25.3 cd/lm 1 White ents:	



		90° 90°
LED	CXA/B 25xx	
FWHM / FWTM	13.0° / 30.0°	75° 75°
Efficiency	86 %	
Peak intensity	7.5 cd/lm	
LEDs/each optic	1	
Light colour	White	63° 630
Required componer	nts:	
F13671_ANGE-F	RZ-LENS	
BJB: 47.319.214	1	
		30 <sup>6</sup> 900 30 <sup>6</sup> 30 <sup>6</sup>
		50* 50*
LED	CXA/B 25xx	
FWHM / FWTM	11.0° / 22.0°	73
Efficiency	92 %	3200 60 <sup>5</sup>
Peak intensity	11.6 cd/lm	$  $ $\times / /   $ $\times $
LEDs/each optic	1	
Light colour	White	a. 610
Required componer	nts:	
A.A.G. STUCCH		800
		310
		15 1200 15
		90* 90*
		90°
LED	CXA/B 25xx	37 JC
LED FWHM / FWTM	CXA/B 25xx 13.0° / 25.0°	37
LED FWHM / FWTM Efficiency	CXA/B 25xx 13.0° / 25.0° 89 %	90 <sup>4</sup> 90 <sup>4</sup> 77 90 <sup>4</sup> 500 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 25xx 13.0° / 25.0°	50 <sup>4</sup> 50 <sup>4</sup> 72 <sup>-</sup> 72 <sup>-</sup> 72 <sup>-</sup> 72 <sup>-</sup> 72 <sup>-</sup> 72 <sup>-</sup> 72 <sup>-</sup> 72 <sup>-</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm	91 <sup>4</sup> 91 <sup>4</sup> 75 <sup>4</sup> 91 <sup>4</sup> 9
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White	9) <sup>1</sup> 91 <sup>1</sup> 72 <sup>1</sup> 9( <sup>1</sup> ) 9( <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White hts:	9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White hts:	94* 90* 75* 64* 60* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White hts:	9) <sup>4</sup> 75 <sup>4</sup> 60 <sup>4</sup> 70 <sup>4</sup> 60 <sup>5</sup> 60 <sup>5</sup> 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White hts: 1	91 <sup>4</sup> 75 <sup>5</sup> 90 <sup>4</sup> 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0° 91 % 7.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0° 91 % 7.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214 CREE (LED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0° 91 % 7.2 cd/lm 1 White nts:	99° 90° 99° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0° 91 % 7.2 cd/lm 1 White nts:	97 97 99 97 99 97 90 97 90 97 90 97 90 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.214	CXA/B 25xx 13.0° / 25.0° 89 % 9.3 cd/lm 1 White nts: 1 CXA/B 30xx 15.0° / 30.0° 91 % 7.2 cd/lm 1 White nts:	97 97 99 97 99 97 90 97 90 97 90 97 90 97



	.EDS	30* 30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1204/1205 9.0° / 16.0° 93 % 19.2 cd/lm 1 White ents:	
	.EDS	50° 60 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH		
	FDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- A.A.G. STUCCH	LUXEON CoB 1208 11.0° / 24.0° 86 % 10 cd/lm 1 White ents: RZ-LENS	
	EDS	90* 925
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	LUXEON CoB 1211 13.0° / 25.0° 90 % 9.4 cd/lm 1 White ents:	



M LUMIL	EDS	90° 90°
LED	LUXEON CoB 1211	
FWHM / FWTM	13.0° / 24.0°	75*
Efficiency	91 %	
Peak intensity	9.5 cd/lm	eqe
LEDs/each optic	1	
Light colour	White	gr
Required component		6430
A.A.G. STUCCH		
		$\times$ / $\setminus$ $\times$
		30° 30° 30° 30° 30° 30° 30° 30° 30° 30°
UMIL	EDS	90°
LED	LUXEON CoB 1216/1812	75.
FWHM / FWTM	15.0° / 31.0°	
Efficiency	89 %	60° 60°
Peak intensity	6.6 cd/lm	
LEDs/each optic	1	
Light colour	White	43* 43*
Required compone	nts:	4500
BJB: 47.319.203	0	
		30* 36*
	EDS	20 20 20 20 20 20 20 20 20 20 20 20 20 2
		99 <sup>4</sup>
LED	LUXEON CoB 1216/1812	
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	LUXEON CoB 1216/1812 16.0° / 37.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1216/1812 16.0° / 37.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm	g. 300 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-f BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White hts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-f BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 % 17.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 % 17.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 % 17.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 % 17.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 % 17.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-I BJB: 47.319.203	LUXEON CoB 1216/1812 16.0° / 37.0° 85 % 5.5 cd/lm 1 White nts: RZ-LENS 0 EDS LUXEON K12 9.0° / 16.0° 94 % 17.3 cd/lm 1 White nts:	



<b>A</b>		
Control Contro	LUXEON K16 11.0° / 18.0° 94 % 13.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	CxM-14 (19x19) 9.0° / 18.0° 93 % 16.3 cd/lm 1 White nts:	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH		
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202		



OSRAM Opto Semiconductors		30*	
LED	Soleriq S19		
FWHM / FWTM	11.0° / 20.0°	25	
Efficiency	93 %		$X/M^{**}$ ( ) X
Peak intensity	13.1 cd/lm	69. <sup>6</sup>	$\sim \times / / \Lambda \times \times$
	1		
LEDs/each optic	White	a7	$\times$ / / $ $ $\land$ $\times$
Light colour			
Required compone BJB: 47.319.217			800
DJD. 47.319.217	10		$\times$ $ $ $ $ $\times$
		<sup>36*</sup>	•
PHILIF	<b>S</b>	50	·
LED	Fortimo SLM L19 CoB		HA M
FWHM / FWTM	13.0° / 29.0°	25	1500
Efficiency	86 %		
Peak intensity	7.5 cd/lm	60*	
LEDs/each optic	1		$\times$ / / $\wedge$ $\times$
Light colour	White	a.	
Required compone			400
F13671_ANGE-			
BJB: 47.319.203			6430
			15° 0000 15°
PHILIF	S	99	·
PHILIF	Fortimo SLM L19 CoB	50"	
		997 1997	
LED FWHM / FWTM	Fortimo SLM L19 CoB	99° 79	
LED FWHM / FWTM Efficiency	Fortimo SLM L19 CoB 13.0° / 25.0°	90° 35	300
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L19 CoB 13.0° / 25.0° 91 %	90 <sup>9</sup> 27	330
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/Im	95" 75" 80 97	300
LED	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White	99" 75" 60 75"	200 - 20 200 - 200 200 - 200 200 200 - 200 200 - 200 200 - 200 200 - 200 200 200 - 200 200 - 200 200 - 200 200 - 200 200 200 - 200 200 - 200 200 200 - 200 200 200 - 200 200 200 - 200 200 200 200 - 200 200 200 200 - 200 200 200 200 - 200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents:	99" 25" 60" 60"	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents:	9° 75 60' 67'	300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents:	904 197 197 197	300
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30	95 95 96 97 96 97 96	300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30	97 75 64 74 75 75 75 75 75 75 75 75 75 75 75 75 75	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30 S Fortimo SLM L23 CoB 15.0° / 32.0° 91 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L19 CoB 13.0° / 25.0° 91 % 9.3 cd/lm 1 White ents: 30		



PHILIF	<b>DS</b>	50 <sup>4</sup>
LED	Fortimo SLM L23 CoB	
FWHM / FWTM	16.0° / 37.0°	8
Efficiency	86 %	
Peak intensity	5.6 cd/lm	
LEDs/each optic	1	
Light colour	White	ar
Required compone		
F13671_ANGE-		
BJB: 47.319.203		600
		20 00 00 100 300
<b>S</b> ΛΜSI	JNG	90 <sup>4</sup> 90 <sup>4</sup>
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	11.0° / 23.0°	78'
Efficiency	87 %	
Peak intensity	11 cd/lm	
LEDs/each optic	1	
Light colour	White	er" 500
Required compone	nts:	
F13671_ANGE-		$\times$
BJB: 47.319.202		980
SAMSI	JNG	9 <sup>4</sup>
		90 <sup>2</sup>
LED	LC016D / LC019D / LC026D / LC033D	90 <sup>4</sup> 94
LED FWHM / FWTM		90 <sup>4</sup> 357 369
LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 %	64
LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 JNG LC016D / LC019D / LC026D / LC033D	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH SAMSU LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 JNG LC016D / LC019D / LC026D / LC033D 10.0° / 19.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 UNG LC016D / LC019D / LC026D / LC033D 10.0° / 19.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 JNG LC016D / LC019D / LC026D / LC033D 10.0° / 19.0° 91 % 15.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-I A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 <b>JNGG</b> LC016D / LC019D / LC026D / LC033D 10.0° / 19.0° 91 % 15.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 UNC LC016D / LC019D / LC026D / LC033D 10.0° / 19.0° 91 % 15.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- A.A.G. STUCCH SAMSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 UNC LC016D / LC019D / LC026D / LC033D 10.0° / 19.0° 91 % 15.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- A.A.G. STUCCH SAMSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 11.0° / 23.0° 87 % 11 cd/lm 1 White nts: RZ-LENS II: 8101-G2 UNC LC016D / LC019D / LC026D / LC033D 10.0° / 19.0° 91 % 15.2 cd/lm 1 White nts:	



<b>S</b> ΛΜS	JNG	90* 90
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	10.0° / 19.0°	25
Efficiency	91 %	
Peak intensity	15.2 cd/lm	a function of the second secon
LEDs/each optic	1	
Light colour	White	er
Required compone	nts:	
A.A.G. STUCCH	ll: 8101-G2	12000
		$\times$ / $\setminus$ $\times$
		30° 15000 30
SEOUL		90 <sup>4</sup> 90
SEOUL SEMICONDUCTOR	ZC12/18	
LED FWHM / FWTM	9.0° / 17.0°	73*
Efficiency	93 %	
Peak intensity	18.4 cd/lm	600 600
LEDs/each optic	1	
Light colour	White	gr (
Required compone		12000
A.A.G. STUCCH		
		30* 15000 30
		 15° 0° 15°
SEOUL		
SECUL SECUL SEMICONDUCTOR		90*
seoul semiconductor	ZC25/40/60	20 <sup>1</sup>
seoul semiconductor LED FWHM / FWTM	14.0° / 29.0°	99* 99 275
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	14.0° / 29.0° 93 %	64 23 24 26 20 20 20 20 20 20 20 20 20 20 20 20 20
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity	14.0° / 29.0° 93 % 7.7 cd/lm	59° 500 75° 500 66° 500 500 730 500 730 500
stoul staticonductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 29.0° 93 % 7.7 cd/lm 1	50 <sup>1</sup> 7 <sup>2</sup> 6 <sup>1</sup> 5 <sup>2</sup> 5 <sup>20</sup> 5 <sup>2</sup>
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 29.0° 93 % 7.7 cd/lm 1 White	50 75 60 50 50 50 50 50 50 50 50 50 50 50 50 50
scoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints:	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints:	
scoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints:	
stour stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints:	
seoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	14.0° / 29.0° 93 % 7.7 cd/lm 1 White Ints: 30	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	14.0° / 29.0° 93 % 7.7 cd/lm 1 White Ints: 30	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 SEOUL SEMICONDUCTOR LED FWHM / FWTM	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0°	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 seoul semiconductor LED FWHM / FWTM Efficiency	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 % 7.7 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 % 7.7 cd/lm 1	
seoul semiconoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 seoul semiconoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 % 7.7 cd/lm 1 White	
seoul semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 seoul semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 % 7.7 cd/lm 1 White ints:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 % 7.7 cd/lm 1 White ints:	
SECUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203 SECUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	14.0° / 29.0° 93 % 7.7 cd/lm 1 White ints: 30 ZC25/40/60 14.0° / 28.0° 91 % 7.7 cd/lm 1 White ints:	



		50*
LED	ZC25/40/60	
FWHM / FWTM	16.0° / 35.0°	75
Efficiency	87 %	
Peak intensity	6.2 cd/lm	
LEDs/each optic	1	
Light colour	White	er la
Required compone		
F13671_ANGE-		
BJB: 47.319.203		
		34" ener 34"
SHA	RP	25 <sup>1</sup>
LED	Mega Zenigata (GW6DME)	
FWHM / FWTM	10.0° / 18.0°	75
Efficiency	94 %	
Peak intensity	16.1 cd/lm	ext ext and a set of the set of t
LEDs/each optic	1	
Light colour	White	
Required compone		
BJB: 47.319.20		12000
		20 0° 20°
SHA	RP	50 <sup>4</sup> A 50 <sup>4</sup>
LED	Mega Zenigata (GW6DME)	
FWHM / FWTM	10.0° / 18.0°	87 787
Efficiency		
Efficiency Peak intensity	94 %	61 (14)
Peak intensity	94 % 15.5 cd/lm	
Peak intensity LEDs/each optic	94 %	
Peak intensity LEDs/each optic Light colour	94 % 15.5 cd/lm 1 White	
Peak intensity LEDs/each optic	94 % 15.5 cd/lm 1 White ents:	
Peak intensity LEDs/each optic Light colour Required compone	94 % 15.5 cd/lm 1 White ents:	6,
Peak intensity LEDs/each optic Light colour Required compone	94 % 15.5 cd/lm 1 White ents:	
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2	
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2	
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NIC SLE G7 LES17 H	25 <sup>0</sup> 0 <sup>0</sup> 25 <sup>0</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM	94 % 15.5 cd/lm 1 White ents: H: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0°	20 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency	94 % 15.5 cd/lm 1 White ents: H: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 %	20 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity	94 % 15.5 cd/lm 1 White ents: H: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0°	20 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 % 10.9 cd/lm 1	25 <sup>0</sup> 0 <sup>0</sup> 25 <sup>0</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 % 10.9 cd/lm 1 White	25 <sup>0</sup> 0 <sup>0</sup> 25 <sup>0</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 % 10.9 cd/lm 1 White	25 <sup>0</sup> 0 <sup>0</sup> 25 <sup>0</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 % 10.9 cd/lm 1 White	20 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 % 10.9 cd/lm 1 White	20 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 15.5 cd/lm 1 White ents: HI: 8301-G2 NICC SLE G7 LES17 H 11.0° / 23.0° 90 % 10.9 cd/lm 1 White	20 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>



TRIDO	VIC	90° 90
LED	SLE G7 LES21 H	
FWHM / FWTM	14.0° / 29.0°	
Efficiency	90 %	900 Start St
Peak intensity	7.7 cd/lm	
LEDs/each optic	1	
Light colour	White	a
Required compone	ents:	30 <sup>4</sup> 25 <sup>4</sup> 0000 13 <sup>5</sup>
XICATO	0	
LED	XOB 14.5 mm	
FWHM / FWTM	9.0° / 18.0°	37
Efficiency	92 %	
Peak intensity	16.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone BJB: 47.319.20		20 <sup>0</sup> 20 20 <sup>1</sup> 20 20 <sup>1</sup> 20
XICATO	)	
LED	XTM - 19mm LES	
FWHM / FWTM	12.0° / 22.0°	
Efficiency	91 %	900 State St
Peak intensity	11 cd/lm	
LEDs/each optic	1	
Light colour	White	of the second
Required compone C15743_XTM-A		
		20 <sup>10</sup> 20 <sup>1</sup> 10 <sup>1</sup>



# PHOTOMETRIC DATA (SIMULATED):

CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: BJB: 47.319.2030	CLU730/731 8.5° / 15.0° 92 % 22.2 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: BJB: 47.319.2021	Soleriq S15 10.0° / 18.0° 90 % 14.6 cd/lm 1 White	99 <sup>4</sup> 99 <sup>4</sup> 72 99 <sup>4</sup> 600 99 <sup>4</sup> 600 99 <sup>4</sup> 600 99 <sup>4</sup> 600 90 <sup>4</sup> 60 <sup>5</sup> 90 <sup>5</sup> 600 90 <sup>4</sup> 60 <sup>5</sup> 90 <sup>5</sup> 70 <sup>5</sup> 70 <sup>5</sup> 70 <sup>5</sup> 90 <sup>5</sup> 70 <sup>5</sup> 7
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: BJB: 47.319.2030	LC040D / LC060D / LC080D 17.0° / 36.0° 87 % 5.8 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20



#### **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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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#### LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

#### LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

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