

PRODUCT DATASHEET F13659_ANGELINA-S-B

ANGELINA-S-B

~20° spot connectors	beam	compatible	with	BJB
TECHNICAL	SPECIFIC	CATIONS:		
Dimensions Height				.0 mm 31 mm





MATERIAL SPECIFICATIONS:

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

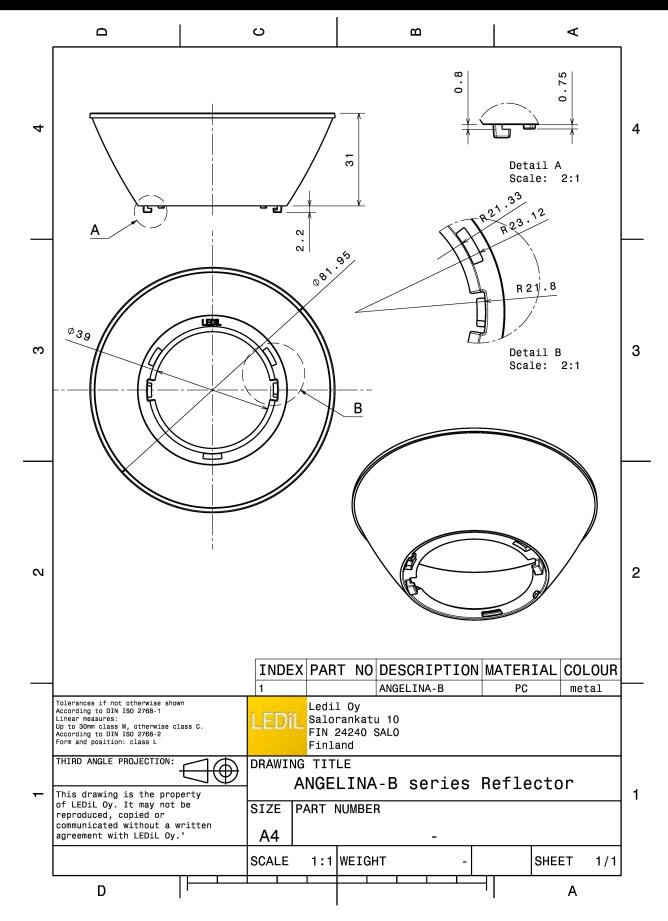
ORDERING INFORMATION:

Component

- F13659_ANGELINA-S-B
- » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
825	110	55	11.3





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



bridgelux. LED		50° 50°
	BXRA ES Rectangle	73.
FWHM / FWTM	23.0° / 90.0°	
Efficiency	92 %	60° 60°
Peak intensity	2.2 cd/lm	
LEDs/each optic		
Light colour	White	$r \times / $
Required componer		1 1590
BJB: 47.319.204	J	
		30° 35° 35° 35°
bridgelux.		90 ⁴
LED	V15 Gen6	
FWHM / FWTM	24.0° / 92.0°	
Efficiency	92 %	60 ⁵ 60 ⁶
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required componer	nts:	
BJB: 47.319.222	4	1630
		.30 ⁴
bridgelux.		
bridgetart		90* 90*
LED	V18 Gen6	90° 91°
	V18 Gen6 27.0° / 92.0°	25 25 25 25
LED		5°
LED FWHM / FWTM	27.0° / 92.0°	9) 9) 9) 90 90 90 90 90 90
LED FWHM / FWTM Efficiency	27.0° / 92.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 92.0° 92 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	27.0° / 92.0° 92 % 1.8 cd/lm 1 White tts:	6) 60 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 92.0° 92 % 1.8 cd/lm 1 White tts:	60 - 67 57 - 1230 - 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	27.0° / 92.0° 92 % 1.8 cd/lm 1 White tts:	6) 60 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	27.0° / 92.0° 92 % 1.8 cd/lm 1 White tts:	60 - 67 57 - 1230 - 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227	27.0° / 92.0° 92 % 1.8 cd/lm 1 White tts:	300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227	27.0° / 92.0° 92 % 1.8 cd/lm 1 White hts: 4	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227	27.0° / 92.0° 92 % 1.8 cd/lm 1 White hts: 4 V18 Gen7	25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgelux LED FWHM / FWTM	27.0° / 92.0° 92 % 1.8 cd/lm 1 White hts: 4 V18 Gen7 27.0° / 92.0°	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgeLux. LED FWHM / FWTM Efficiency	27.0° / 92.0° 92 % 1.8 cd/lm 1 White hts: 4 V18 Gen7 27.0° / 92.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgelux. LED FWHM / FWTM Efficiency Peak intensity	27.0° / 92.0° 92 % 1.8 cd/lm 1 White hts: 4 V18 Gen7 27.0° / 92.0° 93 % 1.8 cd/lm	25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 92.0° 92 % 1.8 cd/m 1 White hts: 4 V18 Gen7 27.0° / 92.0° 93 % 1.8 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 92.0° 92 % 1.8 cd/m 1 White tts: 4 V18 Gen7 27.0° / 92.0° 93 % 1.8 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	27.0° / 92.0° 92 % 1.8 cd/m 1 White hts: 4 V18 Gen7 27.0° / 92.0° 93 % 1.8 cd/m 1 White hts: 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 92.0° 92 % 1.8 cd/m 1 White hts: 4 V18 Gen7 27.0° / 92.0° 93 % 1.8 cd/m 1 White hts: 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer BJB: 47.319.227 bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	27.0° / 92.0° 92 % 1.8 cd/m 1 White hts: 4 V18 Gen7 27.0° / 92.0° 93 % 1.8 cd/m 1 White hts: 	



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 BJB: 47.319.203		
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	CLL03x/CLU03x 23.0° / 86.0° 92 % 2.2 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE A.A.G. STUCCH	CLL03x/CLU03x 25.0° / 92.0° 89 % 1.8 cd/lm 1 White ents: RZ-LENS	



CITIZE	N	90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLL03x/CLU03x 22.0° / 91.0° 94 % 2.3 cd/lm 1 White ents:	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL04x/CLU04x 33.0° / 94.0° 88 % 1.4 cd/lm 1	
Light colour Required compone F13671_ANGE- A.A.G. STUCCH	RZ-LENS	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLL04x/CLU04x 30.0° / 93.0° 92 % 1.6 cd/lm 1	
Light colour Required compone A.A.G. STUCCH	White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	CLU720/721 19.0° / 81.0° 94 % 2.7 cd/lm 1 White ents:	



CITIZE	N	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLU720/721 19.0° / 88.0° 94 % 2.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.214	CXA/B 25xx 30.0° / 93.0° 88 % 1.5 cd/lm 1 White mts: RZ-LENS	
	D	20° 10° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CXA/B 25xx 25.0° / 91.0° 93 % 2 cd/lm 1 White II: 8401-G2	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.214	CXA/B 25xx 27.0° / 91.0° 92 % 1.8 cd/lm 1 White ents:	



			90 ⁴ 90 ⁴
LED	– CXA/B 30xx		
FWHM / FWTM	30.0° / 92.0°		75
Efficiency	92 %		
Peak intensity	1.7 cd/lm		
LEDs/each optic	1		
Light colour	White	_	g
Required compone	nts:		1230
A.A.G. STUCCH	I: 8404-G2		
			30° 30°
	EDS		20° 0° 20° 90°
LED	LUXEON CoB 1204/1205		
FWHM / FWTM	21.0° / 89.0°		75*
Efficiency	94 %		
Peak intensity	2.4 cd/lm		90° / / 10° / 20°
LEDs/each optic	1		
Light colour	White		
Required compone			
A.A.G. STUCCH			
			13 ⁹ 0 ⁹ 15 ⁹
1.000			
UMIL	EDS		90°
	EDS LUXEON CoB 1208		<u>99</u> ¹
			30 ⁴ 50 ⁴
LED	LUXEON CoB 1208		91 ⁺ 92 ⁺
LED FWHM / FWTM	LUXEON CoB 1208 23.0° / 90.0°		61 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency	LUXEON CoB 1208 23.0° / 90.0° 94 %		64 64 100 64 101 10
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm		61, 200, 61, 26, 200, 61, 26, 200, 61,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts:		91 ⁴ 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2		300 307
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2		30° 30° 30° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 EDS LUXEON CoB 1211		30° 30° 30° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0°		500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts: I: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0° 92 %		500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0°		500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts: 1: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0° 92 % 1.9 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White nts: 1: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0° 92 % 1.9 cd/lm 1 White		500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: 1: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0° 92 % 1.9 cd/lm 1 White hts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: 1: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0° 92 % 1.9 cd/lm 1 White hts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	LUXEON CoB 1208 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: 1: 8301-G2 EDS LUXEON CoB 1211 26.0° / 91.0° 92 % 1.9 cd/lm 1 White hts:		



🤭 LUMIL	.EDS	90° 90°
LED	LUXEON CoB 1211	
FWHM / FWTM	26.0° / 91.0°	73* 72*
Efficiency	92 %	605
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	5 ^{°°} 52%
Required compone	ents:	
A.A.G. STUCCH	H: 8102-G2	1600
		364 20% 20% 55°
	.EDS	30*
LED	LUXEON CoB 1216/1812	
FWHM / FWTM	32.0° / 93.0°	73'
Efficiency	91 %	400
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	95° (C)
Required compone	ents:	
BJB: 47.319.203	30	1220
		30* 1620 36*
		15 0 15
	.EDS	30* 30
LED	LUXEON CoB 1216/1812	
LED FWHM / FWTM	LUXEON CoB 1216/1812 34.0° / 95.0°	
LED	LUXEON CoB 1216/1812	
LED FWHM / FWTM Efficiency	LUXEON CoB 1216/1812 34.0° / 95.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: .RZ-LENS 30	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: .RZ-LENS 30	90° 0° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: .RZ-LENS 30	20 ² 25 ³ 0 ⁴ 13 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: .RZ-LENS 30 .EDS LUXEON K12	25 ⁻ 0 ⁺ 15 ⁻ 25 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 .EDS LUXEON K12 27.0° / 95.0°	25 ⁻ 0 ⁺ 15 ⁻ 25 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 EDS LUXEON K12 27.0° / 95.0° 89 %	30 ² 25 ² 0 ⁴ 15 ² 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 LUXEON K12 27.0° / 95.0° 89 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 EDS LUXEON K12 27.0° / 95.0° 89 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 EDS LUXEON K12 27.0° / 95.0° 89 % 1.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 EDS LUXEON K12 27.0° / 95.0° 89 % 1.6 cd/lm 1 White ents: RZ-LENS	25 ⁻ 25 ⁻ 25 ⁻ 26 ⁻ 27 ⁻ 26 ⁻ 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	LUXEON CoB 1216/1812 34.0° / 95.0° 88 % 1.4 cd/lm 1 White ents: RZ-LENS 30 EDS LUXEON K12 27.0° / 95.0° 89 % 1.6 cd/lm 1 White ents: RZ-LENS	25 ⁻ 25 ⁻ 25 ⁻ 26 ⁻ 27 ⁻ 26 ⁻ 27



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compose BJB: 47.319.20		
	.EDS	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE BJB: 47.319.20	RZ-LENS	
(C LUM	INUS	20 ⁴ 20 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.20	CxM-14 (19x19) 23.0° / 87.0° 94 % 2.4 cd/lm 1 White ents:	77. 61 00 61 00 61 00 60 00 61 00 60 00 61 00 60 00 61 00 60 00 61 00 60 60 60 60 60 60 60 60 60 60 60 60 6
		20" 25" 0° 15"
() LUM	INUS	20 ⁴ 20 ³ 20 ⁴ 20 ³



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OSRAM Opto Semiconductors		and the second se	90°
LED	Soleriq S13		
FWHM / FWTM	20.0° / 87.0°		75
Efficiency	94 %		
Peak intensity	2.6 cd/lm		60°
LEDs/each optic	1		
Light colour	White		g7* 67*
Required compone	nts:		
A.A.G. STUCCH			
			2000
			30°
			150 00 250
OSRAM Opto Semiconductors			90* 90*
LED	Soleriq S13 19x19		
FWHM / FWTM	20.0° / 89.0°		
Efficiency	92 %		600 60°
Peak intensity	2.4 cd/lm		
LEDs/each optic	1		
Light colour	White		q3 ² 63*
Required compone	nts:		
BJB: 47.319.202	1		
			30* 30*
OSRAM			
Opto Semiconductors			90° 90°
Opto Semiconductors	Soleriq S19		25°
opto Semiconductors LED FWHM / FWTM	23.0° / 89.0°		<u>3</u> 2 <u>3</u> 2
opto Semiconductors LED FWHM / FWTM Efficiency	23.0° / 89.0° 94 %		61 20 61 22 24 25 25 26 26 26
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	23.0° / 89.0° 94 % 2.2 cd/lm		<u>8</u> 4 <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 89.0° 94 % 2.2 cd/lm 1		<u>9</u> 4 <u>7</u> <u>9</u> 4 <u>90</u> <u>90</u> <u>97</u> <u>97</u> <u>90</u> <u>97</u> <u>97</u> <u>97</u> <u>98</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 89.0° 94 % 2.2 cd/m 1 White		e'
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	23.0° / 89.0° 94 % 2.2 cd/lm 1 White nts:		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 89.0° 94 % 2.2 cd/lm 1 White nts:		e'
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	23.0° / 89.0° 94 % 2.2 cd/lm 1 White nts:		e'
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	23.0° / 89.0° 94 % 2.2 cd/lm 1 White nts:		gr
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	23.0° / 89.0° 94 % 2.2 cd/lm 1 White nts:		gr
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	23.0° / 89.0° 94 % 2.2 cd/lm 1 White nts:		gr
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: I: 8503-G2		gr
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH OSRAM Opto Semiconductors LED	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: 1: 8503-G2		
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	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: 1: 8503-G2 Soleriq S19 23.0° / 90.0°		gr
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	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: : 8503-G2 Soleriq S19 23.0° / 90.0° 94 %		
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	23.0° / 89.0° 94 % 2.2 cd/m 1 White hts: 1: 8503-G2 Soleriq S19 23.0° / 90.0° 94 % 2.2 cd/m		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: 1: 8503-G2 Soleriq S19 23.0° / 90.0° 94 % 2.2 cd/lm 1 White		
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH Opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: : 8503-G2 Soleriq S19 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: :		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: : 8503-G2 Soleriq S19 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: :		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	23.0° / 89.0° 94 % 2.2 cd/lm 1 White hts: : 8503-G2 Soleriq S19 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: :		



Privile / PriTVI 1970 49.0° Efficiency 89.% Reak Intensity 1.5 cd/m LEDXeach optic 1 LEDXeach optic 1 Bull: 47.319.2030 PHILUPS LED Fortimo SLM L19 Cob Privile / Privile / Required components: Bull: 47.319.2030 PHILUPS LED Fortimo SLM L23 Cob Privile / Privile / Required components: Bull: 47.319.2030 PHILUPS LED Fortimo SLM L23 Cob Privile / South LEDXeach optic 1 LEDXeach optic 1 LEDXe	PHILIF	PS	90°	9
PWMM / PWTM 30.0° / 94.0° Eledioncy 98 % Pask Intensity 1.5 cd/m LEDs/sach optic 1 Eledioncy 98 % Pask Intensity 1.5 cd/m LED Fortime SLM L19 CoB PHIST / MACE RZ-LENS BUE 47. 319.2030 PHILIPS LED Fortime SLM L19 CoB PWM / FWTM 1.8 cd/m LEDs/sach optic 1 LED fortime SLM L19 CoB Image: Comparison of the state optic Required components: BUE 47.319.2030 PHILIPS Image: Comparison of the state optic BUE 47.319.2030 Image: Comparison optic PHILIPS Fortime SLM L23 CoB PWM / FWTM 32.0 '95.0' EleD fortime SLM L23 CoB Image: Comparison optic BUE 47.319.2030 Image: Comparison optic Pask Intensity 1.5 cd/m LED fortime SLM L23 CoB Image: Comparison optic BuE 47.319.2030 Image: Comparison optic BuE 47.319.2030 Image: Comparison optic BuE 7.319.2030 Image: Comparison optic BuE 7.319.2030 <th>LED</th> <th>Fortimo SLM L19 CoB</th> <th></th> <th></th>	LED	Fortimo SLM L19 CoB		
Elficiency 88% Peak Intensity 15 cd/m LEDWach option 1 Light colour White Required components: F1371_ANGE-RZ_LENS BJB: 47.319.2030 PHILLOS ELFO Fortimo SLM L19 CoB PWIHA /FWTM 270' / 92.0° Efficiency 93% Peak Intensity 1.8 cd/m LEDWach option 1 Light colour White Required components: BJB: 47.319.2030 PHILLOS ELED Fortimo SLM L23 CoB FWHA /FWTM 32.0° / 56.0° Efficiency 33% Peak Intensity 1.5 cd/m LEDWach option 1 LEDWach option 1 LEDWach option 1 BJB: 47.319.2030 PHILLOS ELED Fortimo SLM L23 CoB FWHA /FWTM 32.0° / 56.0° Efficiency 33% Peak Intensity 1.5 cd/m LEDWach option 1 LEDWach opti	FWHM / FWTM	30.0° / 94.0°		
LEDPiesch print 1 Light colour White Required components: F1371_ANGE-RZ-LENS BJB: 47.319.2030 PHILLPS LED for SLM L19 CoB FWHM /FVTM 27.0° /9.20 Efficiency 39.% Peak intensity 1.8 colim LEDPiesch optie 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS Efficiency 39.% Peak intensity 1.5 colim LEDPiesch optie 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS Efficiency 39.% Peak intensity 1.5 colim LEDPiesch optie 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS Efficiency 39.% Peak intensity 1.5 colim LEDPiesch optie 1 Light colour White Required components: BJB: 47.319.2030	Efficiency	88 %	60°	
Light colour White Required components: F1307_NACERZLENS BJE 47.319.2030 PHILIPS LED FORMULYENT FORMULYENT Bole 47.319.2030 PHILIPS Light colour White Required components: BJE 47.319.2030 PHILIPS Efficiency 39 % PAGE INTERS SUBJECT SUB	Peak intensity	1.5 cd/lm		
Required components: F1371_ANCE-R2LENS BJE: 47.319.2030 PCHILLOS LED Fortimo SLM L19 CoB RVMM / FVTM 27.0° 19.0° Fildenory 39 % Peak intensity 1.8 cd/m LED viscoh optic 1 LED viscoh optic 1 LED wiscoh optic 1 LED to fortimo SLM L23 CoB PCMM / FVTM 32.0° / 96.0° Enciency 39 % Peak intensity 1.5 cd/m LED viscoh optic 1 Light colour White Required components: BJE: 47.319.2030 PCHILLOS Enciency 39 % Peak intensity 1.5 cd/m LED wiscoh optic 1 Light colour White Required components: BJE: 47.319.2030 PCHILLOS Enciency 39 % Peak intensity 1.5 cd/m LED wiscoh optic 1 Light colour White Required components: BJE: 47.319.2030	LEDs/each optic	1		
F1971_ANGE-R2-LENS BJB: 47.319.2030 PHILIPS LED Fortimo SLM L19 CoB FWHM / FWTM ZT:0° / 92.0° Efficiency 93 % Peak Intensity 1.8 cd/m LED2/seach optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak Intensity 1.5 cd/m LED2/seach optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak Intensity 1.3 cd/m LED2/seach optic 1 Light colour White Required components: BJB: 47.319.2030	Light colour	White		$\langle \rangle \rangle$
BB: 47 319 2030 PHILIPS LED Fortimo SLM L19 CoB FWHM / FVTM 27.0° / 92.0° Eliciency 93 % Peak intensity 1.8 cd/m LEDS/each optic 1 Lght colour White Reguired components: BJB: 47 319 2030 PHILIPS LED fortimo SLM L23 CoB FWHM / FVTM 32.0° / 95.0° Eliciency 39 % Peak intensity 1.5 cd/m LEDS/each optic 1 Lght colour White Required components: BJB: 47.319.2030 PHILIPS LED fortimo SLM L23 CoB FWHM / FVTM 32.0° / 95.0° Eliciency 88 % Peak intensity 1.3 cd/m LEDS/each optic 1 Lght colour White Required components: BJB: 47.319.2030	Required compone	nts:		NX
PHILIPS LD rotino SLM L19 CoB EVIMI / FVTM 27.0° / 92.0° Efficiency 93 % Peak Intensity 1.8 cd/m LD2Areach optic 1 Lghr colour While Required components: BJE *7.319.2030 PHILIPS LD rotino SLM L23 CoB EVIMI / FVTM 20.0° / 95.0° Efficiency 93 % Peak Intensity 1.5 cd/m LD2Areach optic 1 Lghr colour While Required components: BJE *7.319.2030 PHILIPS LD2 rotino SLM L23 CoB EVIMI / FVTM 20.0° / 95.0° Efficiency 83 % Peak Intensity 1.5 cd/m LD2Areach optic 2 Efficiency 84 % Peak Intensity 1.3 cd/m LD2 rotino SLM L23 CoB EVIMI / FVTM 34.0° / 95.0° Efficiency 84 % Peak Intensity 1.3 cd/m LD2Areach optic 1 Lghr colour While Required components: BJE *7.319.2030	F13671_ANGE-	RZ-LENS	- 120	+
PHILIPS LED Fortino SLM L19 CoB FWHM / FVTM 27.0° / 92.0° Efficiency 93 % Peak intensity 1.8 cd/m LEDS/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortino SLM L23 CoB FWHM / FVTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/m LEDS/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortino SLM L23 CoB FWHM / FVTM 34.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/m LEDS/each optic 1 Light colour White Required components: BJB: 47.319.2030	BJB: 47.319.203	0		
LED Fortimo SLM L19 CoB FWHM / FWTM 27.0° / 92.0° Efficiency 93 % Peak intensity 18 cd/m LEDSeeach optic 1 LEDSeeach optic 1 BJB: 47.319.2030 EDSEE EED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 15 cd/m LEDSeeach optic 1 Light colour White Required components: BJB: 47.319.2030 EDSEE EED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 15 cd/m LEDSeeach optic 1 Light colour White Required components: BJB: 47.319.2030 EDSEE EED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 13 cd/m LEDSeeach optic 1 Light colour White Required components: BJB: 47.319.2030			20 ⁴ 15 ⁴ 160	153
FWHM / FWTM 27.0° / 92.0° Efficiency 39 % Peak intensity 1.8 cd/m LEDS/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM 22.0° / 95.0° Efficiency 39 % Peak intensity 1.5 cd/m LEDS/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/m LEDS/each optic 1 Light colour White Required components: BJB: 47.319.2030	PHILIF	S	50*	
Efficiency 93 % Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/m LEDs/each optic 1 LEDs/each optic 1	LED) L-L
Peak intensity 1.8 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILUPS LED Fortimo SLM L23 CoB EWHM / FVTM 32.0° / 95.0° Efficiency 33 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILUPS LED Seatimeters 1.3 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILUPS LED Seatimeters 1.3 cd/m LEDs/each optic 1 Light colour Mite Required components: Required co	FWHM / FWTM	27.0° / 92.0°		KV
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LEDs/each optic 1 Light colour While Required components: BJB: 47.319.2030 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 od/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030	Peak intensity	1.8 cd/lm		$X \setminus I$
Required components: BJB: 47.319.2030 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 39 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILLPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/m LEDs/each optic 1 LEDs/e	LEDs/each optic	1		
Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 LEDs/each	Light colour	White	54 X	
PHILIPS LED Fortimo SLM L23 CoB Efficiency 93 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: EJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB EWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components:	Required compone	nts:		TV
PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/m LEDbe/ach optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS Efficiency LD Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/m LEDS/each optic 1 Light colour White Required components: Efficiency BJB: 47.319.2030 Image: Components LD Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/m LEDS/each optic 1 Light colour White Required components: Emiliphic colour Light colour White Required components: Emiliphic colour	BJB: 47.319.203	0		INX.
LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			569	H \
LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:			300	15°
LED Fortimo SLM L23 CoB FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	PHILIF	S	9 /4	
FWHM / FWTM 32.0° / 95.0° Efficiency 93 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 BHILLDS Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	LED			
Efficiency 93 % Peak intensity 1.5 cd/m LEDs/each optic 1 Light colour White Required components: BJB: 47.319.203/	FWHM / FWTM	32.0° / 95.0°	73	$\lambda \sim \tau$
LEDs/each optic 1 Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	Efficiency	93 %	40	$X \times N$
Light colour White Required components: BJB: 47.319.2030 PHILIPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	Peak intensity	1.5 cd/lm		\setminus \times
Required components: BJB: 47.319.2030	LEDs/each optic	1		$X \setminus$
Required components: BJB: 47.319.2030				
DHILDPS LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/m LEDs/each optic 1 Light colour White Required components: Image: Component State	Light colour	White		
LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: ***	Light colour Required compone			
LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: ***	Required compone	nts:		
LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: ***	Required compone	nts:		AK
LED Fortimo SLM L23 CoB FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: ***	Required compone	nts:		
FWHM / FWTM 34.0° / 95.0° Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components: **	Required compone BJB: 47.319.203	nts: 0	200 100 100	
Efficiency 88 % Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	Required compone BJB: 47.319.203	nts: 0 PS	200 100 100	<u>132</u>
Peak intensity 1.3 cd/lm LEDs/each optic 1 Light colour White Required components:	Required compone BJB: 47.319.203	nts: 0 S Fortimo SLM L23 CoB	200 100 100	
LEDs/each optic 1 Light colour White Required components:	Required compone BJB: 47.319.203	nts: 0 S Fortimo SLM L23 CoB 34.0° / 95.0°	200 100 100	
Light colour White Required components:	Required compone BJB: 47.319.203 PHILLIC LED FWHM / FWTM Efficiency	nts: :0 S Fortimo SLM L23 CoB 34.0° / 95.0° 88 %	200 100 100	
Required components:	Required compone BJB: 47.319.203 PHILLIC LED FWHM / FWTM Efficiency Peak intensity	nts: :0 S Fortimo SLM L23 CoB 34.0° / 95.0° 88 % 1.3 cd/lm	200 100 100	
	Required compone BJB: 47.319.203 PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: 0 S Fortimo SLM L23 CoB 34.0° / 95.0° 88 % 1.3 cd/lm 1	200 100 100	
	Required compone BJB: 47.319.203 PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: 0 Fortimo SLM L23 CoB 34.0° / 95.0° 88 % 1.3 cd/lm 1 White	200 100 100	
BJB: 47.319.2030	Required compone BJB: 47.319.203 PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	nts: 0 Fortimo SLM L23 CoB 34.0° / 95.0° 88 % 1.3 cd/lm 1 White nts:	200 100 100	
	Required compone BJB: 47.319.203 PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	nts: 0 Fortimo SLM L23 CoB 34.0° / 95.0° 88 % 1.3 cd/lm 1 White nts: RZ-LENS		



SAMSI	JNG	50 ³ 50 ³
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	27.0° / 93.0°	
Efficiency	89 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	gr d
Required compone	ents:	
F13671_ANGE-RZ-LENS		
BJB: 47.319.202	21	500
		30 ⁴ 25 ⁴ 4 ³ 25 ⁴
SAMSI	UNG	200 T
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	27.0° / 93.0°	
Efficiency	89 %	129 -
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	199.0
Light colour	White	100
Required compone	ents:	101
F13671_ANGE-		100
A.A.G. STUCCH	H: 8101-G2	
0 0 0 0 0 0		
SAMSU		
	LC016D / LC019D / LC026D / LC033D	
LED		
LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D	
LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SANSI LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SANSI LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SANS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21 UNG LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SANS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21 UNG LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SAMSU LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21 UNCC LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21 UNCC LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202 SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents: 21 UNCC LC016D / LC019D / LC026D / LC033D 24.0° / 91.0° 93 % 2.1 cd/lm 1 White ents:	



SEOUL SEMICONDUCTOR		
LED	ZC12/18	
FWHM / FWTM	22.0° / 89.0°	
Efficiency	93 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	**
Required componer		
A.A.G. STUCCHI	I: 8101-G2	
		30° 2009 30 10° 0° 107
		20 ⁴
	ZC25/40/60	
FWHM / FWTM	30.0° / 93.0°	77
Efficiency	92 %	
Peak intensity	1.6 cd/lm	64- X K
LEDs/each optic	1	
Light colour	White	
Required componer		
A.A.G. STUCCHI		
		800
		20° 107 [°] 0 [°]
SHA	RP	99*
LED	RP Mega Zenigata (GW6DME)	
	Mega Zenigata (GW6DME) 23.0° / 90.0°	25°
LED	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 %	81
LED FWHM / FWTM Efficiency Peak intensity	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm	54 500 K
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1	51 ⁴ 77 51 51 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCH	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2	34
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 Tiger Zenigata (GWTGCBG4FD)	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SEHA LED FWHM / FWTM	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 23.0° / 90.0°	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SCHAC LED FWHM / FWTM Efficiency	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: 1: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 23.0° / 90.0° 91 %	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SCHA LED FWHM / FWTM Efficiency Peak intensity	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 23.0° / 90.0°	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SCHA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: 1: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 23.0° / 90.0° 91 % 2 cd/lm	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SCHAC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: 1: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 23.0° / 90.0° 91 % 2 cd/lm 1 White	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 23.0° / 90.0° 91 % 2 cd/lm 1 White hts:	94 ⁴ 10 ⁴ 10 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SCHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer F13671_ANGE-F	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCHI SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Mega Zenigata (GW6DME) 23.0° / 90.0° 94 % 2.2 cd/lm 1 White hts: I: 8301-G2	



TRIDON		90 ⁴ 90 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES17 H 24.0° / 89.0° 91 % 2.1 cd/lm 1 White	
TRIDON		20 [°] 0 [°] 12 [°]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES21 H 29.0° / 91.0° 91 % 1.7 cd/lm 1 White	
XICATO		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	XOB 14.5 mm 23.0° / 92.0° 94 % 2.1 cd/lm 1 White Ints: 21	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XTM - 19mm LES 25.0° / 91.0° 93 % 1.9 cd/lm 1 White	
C15743_XTM-A		30 ⁴ 2000 20 10 ⁵ 0 ⁴ 10 ⁵ 20

Last update: 18/01/2022Subject to change without prior noticePublished: 02/05/2018LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.14/16



PHOTOMETRIC DATA (SIMULATED):

CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: BJB: 47.319.2030	CLL04x/CLU04x 22.0° / 68.0° 95 % 3.1 cd/lm 1 White	
CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: BJB: 47.319.2315	CLL04x/CLU04x 24.0° / 79.0° 89 % 2.5 cd/lm 1 White	39° 50° 50° 50° 50° 50° 50° 50° 50
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: BJB: 47.319.2030	C040D / LC060D / LC080D 27.0° / 85.0° 90 % 2.2 cd/lm 1 White	



PRODUCT DATASHEET F13659_ANGELINA-S-B

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.

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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