

ANGELA-M-B

 ${\sim}30^\circ$ medium beam compatible with BJB and B+W connectors

SPECIFICATION:

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



MATERIALS:

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

ORDERING INFORMATION:

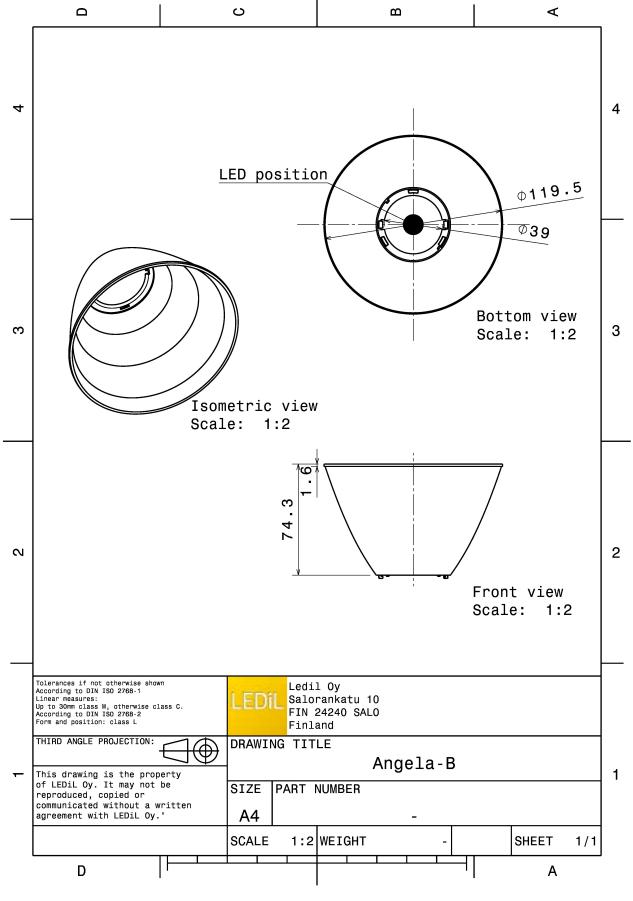
Component

- F13663_ANGELA-M-B
- » Box size: 398 x 298 x 265 mm

Qty in box	MOQ	MPQ	Box weight (kg)
180	90	45	9.1

PRODUCT DATASHEET F13663_ANGELA-M-B





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



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.204		Ro Ro Ro So So 200 62, So 200 62, So 200 62, So 200 62, So 200 92, So 200 92, So 200 92, So 200 92, So 200 93, So 20, 23, So 20, 32,
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.222	RZ-LENS	30 30 40 50 50 50 50 50 50 50 50 50 5
bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.222		30° 10° 10° 10° 10° 10° 10° 10° 1
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F13671_ANGE-F BJB: 47.319.227	RZ-LENS	20- 20- 20- 20- 20- 20- 20- 20-



bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.235		
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	V22 Gen6 23.0° / 70.0° 74 % 2.2 cd/lm 1 White	
F13671_ANGE- A.A.G. STUCCH	RZ-LENS I: 8102-G2	500 500 500 500 500 500 500 500 500 500
FWHM / FWTM Efficiency	18.0° / 67.0°	77 20



CITIZE	N	30* 31*
LED	CLL03x/CLU03x	77
FWHM / FWTM	16.0° / 61.0°	
Efficiency	83 %	
Peak intensity	3.6 cd/lm	
LEDs/each optic	1	
Light colour	White	e [*] e
Required compone		
A.A.G. STUCCH	I: 8101-G2	220
		\times / \vee / \times
	NT	30° 30' 30'
CITIZE	IN	90°
LED	CLL03x/CLU03x	7
FWHM / FWTM	16.0° / 57.0°	
Efficiency	83 %	
Peak intensity	3.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er 200 er
Required compone		
BJB: 47.319.202	1	3200
		30° 400 30°
CITIZE	N	55* 384
LED	CLL04x/CLU04x	
FWHM / FWTM	21.0° / 62.0°	
Efficiency	81 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er 200 -
Required compone	nts:	
BJB: 47.319.203		
	0	
202. 11.010.200	•	209
202. 11.010.200	•	2000
CITIZE	N	36 <u>10</u> 10
	N CLL04x/CLU04x	360 107 107 107
CITIZE	N CLL04x/CLU04x 22.0° / 70.0°	36 <u>10</u> 10
CITIZE LED FWHM / FWTM Efficiency	N CLL04x/CLU04x 22.0° / 70.0° 76 %	360 107 107 107
CITIZE LED FWHM / FWTM Efficiency Peak intensity	N CLL04x/CLU04x 22.0° / 70.0° 76 % 2.3 cd/lm	360 107 107 107
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	N CLL04x/CLU04x 22.0° / 70.0° 76 % 2.3 cd/lm 1	30 137 0 127 38
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	N CLL04x/CLU04x 22.0° / 70.0° 76 % 2.3 cd/Im 1 White	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	N CLL04x/CLU04x 22.0° / 70.0° 76 % 2.3 cd/lm 1 White nts:	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	N CLL04x/CLU04x 22.0° / 70.0° 76 % 2.3 cd/lm 1 White nts: RZ-LENS	
CITIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	N CLL04x/CLU04x 22.0° / 70.0° 76 % 2.3 cd/lm 1 White nts: RZ-LENS	



17 '1'1'7'L'	NT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLL04x/CLU04x 21.0° / 69.0° 81 % 2.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLU720/721/723 14.0° / 53.0° 83 % 4 cd/lm 1 White nts:	
CITIZE LED FWHM / FWTM Efficiency	CLU720/721/723 14.0° / 50.0°	39*
Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.20;		



r		
		50°
LED	CXA/B 25xx	
FWHM / FWTM	18.0° / 67.0°	75'
Efficiency	82 %	
Peak intensity	3.2 cd/lm	50 ²
LEDs/each optic	1	
Light colour	White	gr or
Required compone		
A.A.G. STUCCH		
		30* 36 3.4
		125 [°] 0 [°] 135 [°]
		30°
LED	CXA/B 25xx	
FWHM / FWTM	21.0° / 69.0°	
Efficiency	76 %	60 00 00 00 00 00 00 00 00 00 00 00 00 0
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	42° - 1500
Required compone		
F13671_ANGE-F	RZ-LENS	
BJB: 47.319.214	1	
		30-
1		10 0 10
		20 ° 20
LEDS	CXA/B 30xx	
CREE ÷ LED FWHM / FWTM	CXA/B 30xx 21.0° / 68.0°	
LED FWHM / FWTM		
LED LED FWHM / FWTM Efficiency	21.0° / 68.0° 80 %	
LED FWHM / FWTM	21.0° / 68.0°	
LEDs LED FWHM / FWTM Efficiency Peak intensity	21.0° / 68.0° 80 % 2.7 cd/lm	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic	21.0° / 68.0° 80 % 2.7 cd/lm 1 White	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts:	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2	24 <u>25</u> <u>6</u> <u>25</u> <u>26</u>
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componei A.A.G. STUCCH	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205	24 <u>25</u> <u>6</u> <u>25</u> <u>26</u>
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0°	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH MINICH LED FWHM / FWTM Efficiency	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 %	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 % 3.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH COMPARIANCE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 % 3.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH WHM / STUCCH ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 % 3.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH COMPARIANCE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 % 3.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH WHM / STUCCH ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 % 3.8 cd/lm 1 White nts:	
LEDS EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	21.0° / 68.0° 80 % 2.7 cd/lm 1 White nts: I: 8404-G2 EDS LUXEON CoB 1204/1205 16.0° / 56.0° 82 % 3.8 cd/lm 1 White nts:	



	EDS	
		9) ⁴ 90 ⁴
LED	LUXEON CoB 1208	77
FWHM / FWTM	17.0° / 64.0°	
Efficiency	83 %	
Peak intensity	3.5 cd/lm	
LEDs/each optic	1	
Light colour	White	200
Required component		
A.A.G. STUCCH	1: 8301-G2	
		30 ⁴ 25 ⁷ 0 ⁴ 15 ⁴
UMIL	EDS	90*
LED	LUXEON CoB 1208	
FWHM / FWTM	19.0° / 69.0°	
Efficiency	77 %	60
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	g* <u>300</u> g*
Required compone	nts:	
F13671_ANGE-F	RZ-LENS	
A.A.G. STUCCH	l: 8301-G2	. 205
		20 ⁴ 27 ⁴ 0 ⁴ 25 ⁴
	EDS	99
LED	LUXEON CoB 1211	
FWHM / FWTM	19.0° / 67.0°	
Efficiency	80 %	60 ⁴
Peak intensity	3 cd/lm	
LEDs/each optic		
	1	100
Light colour	White	97 (100) 100
	White	
Light colour	White hts:	
Light colour Required compone	White hts:	
Light colour Required compone	White hts:	
Light colour Required componen BJB: 47.319.203	White nts: 0	
Light colour Required componen BJB: 47.319.203	White nts: 0	
Light colour Required componen BJB: 47.319.203	White Its: D EDS LUXEON CoB 1211	9°
Light colour Required componen BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0°	
Light colour Required componen BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 %	
Light colour Required component BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 % 3.1 cd/lm	
Light colour Required component BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 % 3.1 cd/lm 1	
Light colour Required component BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 % 3.1 cd/lm 1 White	
Light colour Required component BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 % 3.1 cd/lm 1 White hts:	
Light colour Required component BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 % 3.1 cd/lm 1 White hts:	
Light colour Required component BJB: 47.319.203	White hts: 0 EDS LUXEON CoB 1211 19.0° / 67.0° 81 % 3.1 cd/lm 1 White hts:	



	EDC		
			30*
LED	LUXEON CoB 1213/1216/1812		75.
FWHM / FWTM	24.0° / 70.0°		
Efficiency	75 %		60 ⁴ 60 ⁴
Peak intensity	2.2 cd/lm		
LEDs/each optic	1		
Light colour	White		24°
Required compone			3630
F13671_ANGE-I			
BJB: 47.319.203	0		
			30° 25° 0° 25°
UMIL	EDS		90 ⁴ 90 ⁴
LED	LUXEON CoB 1213/1216/1812		
FWHM / FWTM	22.0° / 69.0°		73
Efficiency	79 %		
Peak intensity	2.5 cd/lm		
LEDs/each optic	1		
Light colour	White		97 ⁴ 2000
Required compone	nts:		
BJB: 47.319.203	0		
			30" 30" 30"
	EDS		30 ⁴
		100	<u>80,</u> 20,
LUMIL LED FWHM / FWTM	EDS LUXEON K12 17.0° / 65.0°		25
LED FWHM / FWTM	LUXEON K12		
LED FWHM / FWTM Efficiency	LUXEON K12 17.0° / 65.0°		
LED FWHM / FWTM Efficiency Peak intensity	LUXEON K12 17.0° / 65.0° 87 %		60 ⁴ 22 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts:		200 est 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts:		97 - 300 - 97 300 - 97 300 - 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0		e
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16 17.0° / 67.0°		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16 17.0° / 67.0° 87 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 10 EDS LUXEON K16 17.0° / 67.0° 87 % 3.7 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 10 EDS LUXEON K16 17.0° / 67.0° 87 % 3.7 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16 17.0° / 67.0° 87 % 3.7 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16 17.0° / 67.0° 87 % 3.7 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16 17.0° / 67.0° 87 % 3.7 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.207	LUXEON K12 17.0° / 65.0° 87 % 3.7 cd/lm 1 White nts: 0 EDS LUXEON K16 17.0° / 67.0° 87 % 3.7 cd/lm 1 White nts:		



(co		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	CxM-14 (19x19) 16.0° / 56.0° 82 % 3.9 cd/lm 1 White hts:	
	NUS	30* 30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203		
OSRAM		90 ⁴
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 BJB: 47.319.202		



000414		
OSRAM Opto Semiconductors		90°
LED	Soleriq S19	
FWHM / FWTM	18.0° / 65.0°	73'
Efficiency	83 %	
Peak intensity	3.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er et
Required compone	nts:	300
BJB: 47.319.217	0	
		200
		× ×
		· · · · · · · · · · · · · · · · · · ·
OSRAM Opto Semiconductors		50° 50°
LED	Soleriq S19	
FWHM / FWTM	17.0° / 65.0°	
Efficiency	83 %	
Peak intensity	3.4 cd/lm	$K \rightarrow A$
LEDs/each optic	1	
Light colour	White	8°
Required compone	nts:	300
A.A.G. STUCCH	II: 8503-G2	
		20
		15° 0° 15°
S ΛΜSI	JNG	97
	JNG LC016D / LC019D / LC026D / LC033D	<u>89</u> *
		39 ⁺ 39 ⁺ 90 ⁺ 90 ⁺
LED	LC016D / LC019D / LC026D / LC033D	
LED FWHM / FWTM	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0°	99° 72° 60° 60°
LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 %	99 ³ 97 89 ⁴ 80 80 80 80 80 80 80 80 80 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm	51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts:	73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts:	73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts:	77
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2	73'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNCG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 % 2.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNCG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 % 2.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNCG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNCG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 % 2.9 cd/lm 1 White nts: RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNCG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 % 2.9 cd/lm 1 White nts: RZ-LENS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	LC016D / LC019D / LC026D / LC033D 17.0° / 66.0° 81 % 3.4 cd/lm 1 White nts: II: 8101-G2 JNCG LC016D / LC019D / LC026D / LC033D 18.0° / 68.0° 78 % 2.9 cd/lm 1 White nts: RZ-LENS	



SAMSU	JNG	50 ⁺
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	17.0° / 66.0°	
Efficiency	81 %	
Peak intensity	3.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr d
Required compone BJB: 47.319.202		
		30. 12 ³ 0 ⁴ 12 ³
SVWSI	JNG	50 ⁴
LED	LC016D / LC019D / LC026D / LC033D	77
FWHM / FWTM	18.0° / 68.0°	
Efficiency	78 %	601
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	100
Light colour	White	
Required compone	ints:	
F13671_ANGE-	RZ-LENS	339
BJB: 47.319.202	21	
		30 37 45 37
		50 ⁴
SEOUL SEMICONDUCTOR	ZC12/18	
SEOUL SEMICONDUCTOR	ZC12/18 16.0° / 57.0°	20 20 20
seoul semiconductor LED FWHM / FWTM		50 ¹
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	16.0° / 57.0°	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	16.0° / 57.0° 82 %	50 ⁻ 50 ⁻ 123
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 57.0° 82 % 3.8 cd/lm	
	16.0° / 57.0° 82 % 3.8 cd/lm 1 White	99°
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints:	200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200
seoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints:	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints:	200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	16.0° / 57.0° 82 % 3.8 cd/lm 1 White It: 8101-G2	200.
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	16.0° / 57.0° 82 % 3.8 cd/lm 1 White It 8101-G2 ZC25/40/60	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints: II: 8101-G2 ZC25/40/60 24.0° / 69.0° 77 %	200.
stour stanconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH STUCCH STUCCH ED FWHM / FWTM Efficiency Peak intensity	16.0° / 57.0° 82 % 3.8 cd/lm 1 White It 8101-G2 ZC25/40/60 24.0° / 69.0°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints: II: 8101-G2 ZC25/40/60 24.0° / 69.0° 77 % 2.4 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints: II: 8101-G2 ZC25/40/60 24.0° / 69.0° 77 % 2.4 cd/lm 1 White	
stoul standonbuctors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCF	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints: II: 8101-G2 ZC25/40/60 24.0° / 69.0° 77 % 2.4 cd/lm 1 White ints:	
stoul staticonductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH STUCCH STUCCH FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints: II: 8101-G2 ZC25/40/60 24.0° / 69.0° 77 % 2.4 cd/lm 1 White ints: RZ-LENS	
SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH EFMIN / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	16.0° / 57.0° 82 % 3.8 cd/lm 1 White ints: II: 8101-G2 ZC25/40/60 24.0° / 69.0° 77 % 2.4 cd/lm 1 White ints: RZ-LENS	



SEOUL			90*	T
SEOUL SEMICONDUCTOR	ZC25/40/60			
EED FWHM / FWTM	2023/40/80 21.0° / 68.0°		751	$\lambda \square \land \neg$
Efficiency	81 %			
Peak intensity	2.7 cd/lm		60*	
LEDs/each optic	1			
Light colour	White		45%	1630
Required component				
A.A.G. STUCCH				X
7				2430
			30.6	15° 0° 15°
SEOUL			90.6	T
SEOUL SEMICONDUCTOR	ZC25/40/60			
EED FWHM / FWTM	23.0° / 68.0°		757	
Efficiency	81 %			
Peak intensity	2.7 cd/lm		60.5	
	1			
LEDs/each optic Light colour	White		45%	
Required component			\leq /	
BJB: 47.319.203			\sim	
D0D: 47.010.200				2400
			30.	
				15° 0° 15°
SHA	RP		90°	15 ⁵ 0 ⁶ 25 ⁵
SHA			90*	357 07 137
LED	Mega Zenigata (GW6DME)	-	90* 29:	
LED FWHM / FWTM	Mega Zenigata (GW6DME) 17.0° / 63.0°		94 75	
LED FWHM / FWTM Efficiency	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 %		90' 795 Ør	
LED FWHM / FWTM Efficiency Peak intensity	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm		95 72 91	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1		97 90 90	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White		g. 93	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts:		94 73 64 67	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts:		94 95 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts:		95 75 97 97 97	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2		95 72 94 97 97 97 97 97	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2		94 95 95	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2		93 93 94	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME)		90 90 90 90 90 90 90	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME) 17.0° / 61.0°		90 72 90 90 90 90 90	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 RCP Mega Zenigata (GW6DME) 17.0° / 61.0° 84 %		801 72 91 92 92 92 94 94 94 94 94 94	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SCHAA LED FWHM / FWTM Efficiency Peak intensity	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 RCP Mega Zenigata (GW6DME) 17.0° / 61.0° 84 % 3.7 cd/lm		91 72 91 91 91 91 91 91 91 91 91 91 91 91	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH A.A.G. STUCCH SCHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME) 17.0° / 61.0° 84 % 3.7 cd/lm 1		60 60 91 92 92 92 92 92 92 92 92 92 92	200 200 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME) 17.0° / 61.0° 84 % 3.7 cd/lm 1 White		91 92 92 92 92 92 92 92 92 92 92 92	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME) 17.0° / 61.0° 84 % 3.7 cd/lm 1 White nts:		97 97 94 94 94	200 200 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME) 17.0° / 61.0° 84 % 3.7 cd/lm 1 White nts:		93 94 94 94	200 200 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Mega Zenigata (GW6DME) 17.0° / 63.0° 83 % 3.6 cd/lm 1 White nts: II: 8301-G2 Mega Zenigata (GW6DME) 17.0° / 61.0° 84 % 3.7 cd/lm 1 White nts:		91 92 92 93 94 94 94 94	200 200 500



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES17 H 17.0° / 66.0° 80 % 3.3 cd/lm 1 White	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES21 H 20.0° / 68.0° 80 % 2.8 cd/lm 1 White	
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	XOB 14.5 mm 17.0° / 66.0° 82 % 3.4 cd/lm 1 White nts:	
XICATC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15743_XTM-A	XTM - 19mm LES 19.0° / 68.0° 81 % 3.1 cd/lm 1 White nts:	



OPTICAL RESULTS (SIMULATED):

CITIZEN		50° 55°
LED	CLU730/731/733	1500
FWHM / FWTM	16.0° / 26.0°	
Efficiency	91 %	200
LEDs/each optic	1	
Light colour	White	ar an ar
Required components:		
BJB: 47.319.2030		610
		300 300
OCDAM		15 000 15*
OSRAM Opto Semiconductors		90* 90*
LED	Soleriq S15	75"
FWHM / FWTM	18.0° / 30.0°	
Efficiency	90 %	60° 60°
Peak intensity	6 cd/lm	
LEDs/each optic	1	3220
Light colour	White	a
Required components:		
BJB: 47.319.2021		
		\times / \times ×
		30° 6430 30° 30°
SAMSUN	IG	90° 90°
LED	LC040D / LC060D / LC080D	
FWHM / FWTM	23.0° / 45.0°	25'
Efficiency	87 %	
Peak intensity	3.8 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	a3 ¹² 2130 a3 ¹²
Required components:		
BJB: 47.319.2030		270
		\times / \square / \times
		30° 4000 30°
		15° 0° 15°



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.

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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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