

PRODUCT DATASHEET F13660_ANGELINA-M-B

ANGELINA-M-B

~30° medium beam compatible with BJB connectors

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 82.0 mm
Height	31 mm
Fastening	socket
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

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

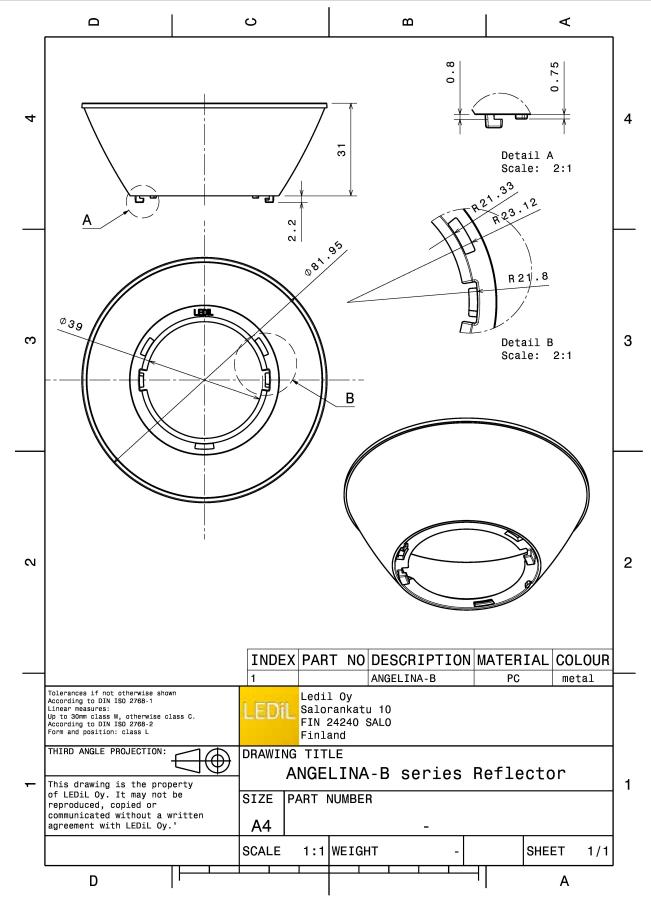
ORDERING INFORMATION:

Component

- F13660_ANGELINA-M-B
- » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
825	110	55	10.0

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



bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.204		No. Co. F2. Co. No. No. 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000
bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.222		91 ³ 92 ⁵ 95 ⁵ 95 ⁶ 96 ⁶ 97 ⁶ 90 ⁶ 90 ⁶ 90 ⁶ 90 ⁶ 90 ⁷ 90 ⁶ 90 ⁷ 90 ⁶ 90 ⁷ 90
bridgeluX. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.227		20 ³ 00 ⁴
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.235		20



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: 47.319.202	CLL03x/CLU03x 37.0° / 96.0° 92 % 1.4 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 43.0° / 99.0° 89 % 1.1 cd/lm 1 White ents: RZ-LENS	



CITIZE	Ν	50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLL03x/CLU03x 39.0° / 98.0° 94 % 1.2 cd/lm 1 White ents:	
CITIZE	'N	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- A.A.G. STUCCH	CLL04x/CLU04x 50.0° / 101.0° 87 % 0.9 cd/lm 1 White ents: RZ-LENS	
CITIZE	N	90° 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLL04x/CLU04x 39.0° / 98.0° 94 % 1.2 cd/lm 1 White ents:	
CITTIZE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	CLU720/721 34.0° / 96.0° 94 % 1.4 cd/lm 1 White ents:	



CITIZE	N		1599
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CLU720/721 35.0° / 97.0° 94 % 1.3 cd/lm 1 White ents:		
CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.214	CXA/B 25xx 46.0° / 99.0° 89 % 1 cd/lm 1 White ents: RZ-LENS		24° 29° 00° 29° 29°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	CXA/B 25xx 42.0° / 98.0° 93 % 1.1 cd/lm 1 White ents:		5° 50 6° 60 6° 60 6° 60 5° 60 5°
CREE LEC ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.214	CXA/B 25xx 44.0° / 98.0° 92 % 1.1 cd/lm 1 White ents:		



		90 ⁴
LED	CXA/B 30xx	
FWHM / FWTM	45.0° / 98.0°	
Efficiency	92 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	ar a
Required compone		
A.A.G. STUCCH		
		30'
	EDC	100 01 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -
UMIL		90 ⁴
LED	LUXEON CoB 1204/1205	
FWHM / FWTM	38.0° / 97.0°	
Efficiency	94 %	60 60
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
A.A.G. STUCCH	II: 8301-G2	
		30° 125° 1280
UMIL	EDS	99 ⁴
	EDS LUXEON CoB 1208	50 ⁴
LED	LUXEON CoB 1208	
LED FWHM / FWTM	LUXEON CoB 1208 39.0° / 97.0°	
LED FWHM / FWTM Efficiency	LUXEON CoB 1208 39.0° / 97.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH MARKING COMPOSE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH MUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH MARKING COMPOSE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH MODELED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1208 39.0° / 97.0° 94 % 1.2 cd/lm 1 White nts: II: 8301-G2 EDS LUXEON CoB 1211 44.0° / 98.0° 92 % 1.1 cd/lm 1 White nts:	



	EDS	9 ¹ 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	LUXEON CoB 1211 43.0° / 97.0° 92 % 1.1 cd/lm 1 White ents:	
	.EDS	90 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.203	RZ-LENS	
	.EDS	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	LUXEON CoB 1216/1812 49.0° / 99.0° 91 % 1 cd/lm 1 White ents:	
🥙 LUMIL	.EDS	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON K12 48.0° / 101.0° 89 % 1 cd/lm 1	64 60 66 70 70 70 70 70 70 70 70 70 70 70 70 70



	FDS	2° 2°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.207	LUXEON K16 44.0° / 98.0° 94 % 1.1 cd/lm 1 White ents:	
	EDS	50* 50 [*]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE- BJB: 47.319.207	RZ-LENS	
	INUS	50* 50 [*]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.202	CxM-14 (19x19) 40.0° / 98.0° 94 % 1.3 cd/lm 1 White ents: 21	
ELUM	INUS	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone BJB: 47.319.203	CxM-22 (28x28) 48.0° / 99.0° 92 % 1 cd/lm 1 White ents:	



OSPAM				F
OSRAM Opto Semiconductors		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	90*	90*
LED	Soleriq S13		28"	
FWHM / FWTM	37.0° / 98.0°			\sim 7
Efficiency	94 %		60° 400	
Peak intensity	1.3 cd/lm			
LEDs/each optic	1			
Light colour	White		9°	45*
Required compone				
A.A.G. STUCCH	I: 8502-G2			
			1230	L \
			30° 0°	30°
OSRAM Opto Semiconductors			90 ⁺	90*
LED	Soleriq S13 19x19			
FWHM / FWTM	37.0° / 97.0°		75*	2
Efficiency	93 %		400	
Peak intensity	0.9 cd/lm		69°	
LEDs/each optic	1			
Light colour	White		95*	6.
Required compone	nts:			
BJB: 47.319.202				
			30*	21.0
			15° 0°	12°,
OSRAM Opto Semiconductors		And Personnelling	90*	90°
OSRAM Opto Semiconductors	Soleriq S19		90*	90*
Opto Semiconductors	Soleriq S19 41.0° / 97.0°		50 ⁺	30*
opto Semiconductors LED FWHM / FWTM			90 ⁴ 70 00	
opto Semiconductors LED FWHM / FWTM Efficiency	41.0° / 97.0°		90°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	41.0° / 97.0° 93 %		90°	99 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	41.0° / 97.0° 93 % 1.2 cd/lm		94 ⁴ 95 96 97	50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	41.0° / 97.0° 93 % 1.2 cd/lm 1 White		90 ⁴ 70 97 97 90 90	9°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts:		90 ⁴ 70 60 ⁴ 97 90	9 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts:		94 ⁴ 20 01 07 00	97 97
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts:		50°	22 25 26 25 25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts:		94 72 64 75 75 75 75 75 75 75 75 75 75 75 75 75	25. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2		94 72 62 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90	20 20 20 20 20 20 20 20 20 20 20 20 20 2
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer A.A.G. STUCCH	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19		94 ⁴ 70 94 95 96 96 96 96 96 96 96 96 96 96 96 96 96	27 27 26 26 26 26 26 26 26 26 26 26 26 26 26
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone: A.A.G. STUCCH	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0°		94 ⁴ 70 64 ⁴ 95 ⁴ 95 ⁴ 70 70	92°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH Opto Semiconductors LED FWHM / FWTM Efficiency	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 %		94 ⁴ 72 64 ⁴ 73 75 75 75 75 75 75 75 75 75 75 75 75 75	64 64 64 64 64 64 64 64 64 64 64 64 64 6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 % 1.2 cd/lm		94 ⁴ 72 64 65 75 75 75 75 75 75 75 75 75 75 75 75 75	99 99 99 99 99 99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 % 1.2 cd/lm 1		94 ⁴ 97 97 97 97 97 97 97 90 90 90 90 90 90 90 90 90 90 90 90 90	99 99 99 99 99 99 99 99 99 99 99 99 99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH OSCRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 % 1.2 cd/lm 1 White		94 ⁴ 70 64 70 70 70 70 70 70 70 70 70 70 70 70 70	99 10 10 10 10 10 10 10 10 10 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 % 1.2 cd/lm 1 White nts:		94 70 64 70 70 70 70 70 70 70 70 70 70 70 70 70	99 99 99 99 99 99 99 99 99 99 99 99 99
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component A.A.G. STUCCH Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 % 1.2 cd/lm 1 White nts:		94 75 95 95 95 95 95 95 95 95 95 9	27 27 27 27 27 27 27 27 27 27 27 27 27 2
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen A.A.G. STUCCH OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	41.0° / 97.0° 93 % 1.2 cd/lm 1 White nts: I: 8503-G2 Soleriq S19 41.0° / 98.0° 94 % 1.2 cd/lm 1 White nts:		94 77 64 97 96 96 96 96 96 96 96 96 96 96 96 96 96	92 92 92 92 92 92 92 92 92 92



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PHILIP	25			90*	9
LED	Fortimo SLM L19 CoB	And in case of the local division in the loc			
FWHM / FWTM	42.0° / 98.0°			Nº	
Efficiency	88 %				
Peak intensity	1.1 cd/lm			400	
LEDs/each optic	1				
Light colour	White			93*	
Required componer	nts:				
F13671_ANGE-F					
BJB: 47.319.203	0				
				30° 15° 0°	3
PHILIP	S			90*	9
LED	Fortimo SLM L19 CoB				
FWHM / FWTM	40.0° / 97.0°			70	
Efficiency	93 %			60.0	
Peak intensity	1.2 cd/lm			\sim ///	
LEDs/each optic	1			X /	\times
Light colour	White			er /	
Required componer	nts:				
BJB: 47.319.203	0				
				30°	,
				15% 0%	15°
				90*	
PHILIP	Fortimo SLM L23 CoB	and the second		90°	
LED FWHM / FWTM	Fortimo SLM L23 CoB 44.0° / 98.0°	1		73	
LED FWHM / FWTM Efficiency	Fortimo SLM L23 CoB 44.0° / 98.0° 93 %	T		02 00 23 20	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm			604 400 22: 24:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1			894	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White			904 75 904 904 904 904 904	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts:		1	94 77 65 65 65 65 65 65 65 65 65 65 65 65 65	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts:			914 73 605 60 60 60	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts:			27 60 80 80 80	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts:			30 ⁴ 12 ⁴ 12 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0			80- 90- 90- 90- 90- 90- 90- 90- 90- 90- 90- 90- 90- 90-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0				32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0				32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0				32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0°				32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0° 88 %				<u>13</u> *
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/Im 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0° 88 % 1 cd/Im				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0° 88 % 1 cd/lm 1 White				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0° 88 % 1 cd/lm 1 White nts:				
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0° 88 % 1 cd/lm 1 White nts: RZ-LENS				<u>19</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen BJB: 47.319.203	Fortimo SLM L23 CoB 44.0° / 98.0° 93 % 1.1 cd/lm 1 White nts: 0 S Fortimo SLM L23 CoB 45.0° / 99.0° 88 % 1 cd/lm 1 White nts: RZ-LENS				32



SAMSI	UNG	30°
LED	LC016D / LC019D / LC026D / LC033D	
FWHM / FWTM	45.0° / 100.0°	
Efficiency	89 %	
Peak intensity	1 cd/lm	9 ⁶⁷ - 400
LEDs/each optic	1	
Light colour	White	e de la companya de la company
Required compone	ents:	
F13671_ANGE		
BJB: 47.319.20		
		30° 25° et 25°
SAMS	UNG	114
LED	LC016D / LC019D / LC026D / LC033D	1100 -
FWHM / FWTM	45.0° / 100.0°	
Efficiency	89 %	
Peak intensity	1 cd/lm	79-
LEDs/each optic	1	
Light colour	White	10)
Required compone		400
F13671_ANGE-		399 -
A.A.G. STUCCH		20
		19
SAMSI	UNG	
LED	LC016D / LC019D / LC026D / LC033D	тин — — — — — — — — — — — — — — — — — — —
FWHM / FWTM	41.0° / 98.0°	100
Efficiency	93 %	100
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	200
Light colour	White	69
Required compone	ents:	00
BJB: 47.319.2021		
DOD. 11.010.20	21	***
202. 11.010.20	21	200 - 200 -
202. 11.010.20	21	
		10
SAMSI	UNG	
SAMSI LED	UNG LC016D / LC019D / LC026D / LC033D	
SAMS LED FWHM / FWTM	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0°	
SAMS LED FWHM / FWTM Efficiency	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 %	
SAMS LED FWHM / FWTM Efficiency Peak intensity	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 % 1.2 cd/lm	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 % 1.2 cd/lm 1	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 % 1.2 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 % 1.2 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 % 1.2 cd/lm 1 White ents:	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	UNG LC016D / LC019D / LC026D / LC033D 41.0° / 98.0° 93 % 1.2 cd/lm 1 White ents:	



SEOUL		90 ⁴	90*
	ZC12/18		
LED FWHM / FWTM	39.0° / 97.0°	7	75'
Efficiency	93 %		$\langle \mathbf{X} \mathbf{V} \rangle$
Peak intensity	93 % 1.2 cd/lm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60.
LEDs/each optic	1		$ \setminus \times $
Light colour	White	g.	
Required compone			
A.A.G. STUCCH			
		129	
		200° 125' of	12°
SEOUL			
SEOUL SEMICONDUCTOR			90-
LED	ZC25/40/60	71	75'
FWHM / FWTM	47.0° / 99.0°		
Efficiency	92 %	69-	60.
Peak intensity	1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			\downarrow
A.A.G. STUCCH	11: 8102-G2		Λ
		30 227 07	15° 30°
			~
SUA			
SHA		20*	90*
LED	Mega Zenigata (GW6DME)	39°	90°
LED FWHM / FWTM	Mega Zenigata (GW6DME) 40.0° / 98.0°	39*	90*
LED FWHM / FWTM Efficiency	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 %	50* 73* 60*	90°
LED FWHM / FWTM Efficiency Peak intensity	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm	99* 75 90	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1		50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White	9° 60 60 60 60 60 60 60 60 60 60	99 99 99 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White ints:		99 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White ints:	50° 10° 10° 10° 10° 10° 10° 10° 1	99" 97" 97" 97" 97"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White ints:	50° 10° 10° 10° 10° 10° 10° 10° 1	99'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White ints:		99" 97" 97" 97" 97" 97" 97" 97"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White It: 8301-G2		99" 92" 92" 92" 92"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White II: 8301-G2		99 59 59 69 69 69 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White II: 8301-G2 Tiger Zenigata (GWTGCBG4FD)		99 99 99 99 99 99 99 99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White II: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0°		29°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White I 8301-G2 Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 %		99 97 97 97 97 97 97 97 97 97 97 97 97 9
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) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White II: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 % 1.1 cd/lm		59 57 67 57 57 57 57 57 57 57 57 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH A.A.G. STUCCH SCHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White ints: II: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 % 1.1 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White ints: II: 8301-G2 Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 % 1.1 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White II: 8301-G2		99 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White I 8301-G2 WRP Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 % 1.1 cd/lm 1 White I RZ-LENS		59 72 90 90 90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White I 8301-G2 WRP Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 % 1.1 cd/lm 1 White I RZ-LENS		59' 59' 59' 59' 59' 59' 59'
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone A.A.G. STUCCH SEHAA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F13671_ANGE-	Mega Zenigata (GW6DME) 40.0° / 98.0° 94 % 1.2 cd/lm 1 White I 8301-G2 WRP Tiger Zenigata (GWTGCBG4FD) 41.0° / 99.0° 90 % 1.1 cd/lm 1 White I RZ-LENS		10 10 10 10 10 10 10 10 10 10



TRIDON	VIC	20 ⁴ 20 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES17 H 38.0° / 96.0° 91 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SLE G7 LES21 H 43.0° / 97.0° 91 % 1.1 cd/lm 1 White	
XICATO		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XOB 14.5 mm 40.0° / 98.0° 94 % 1.2 cd/lm 1 White	
Required compone BJB: 47.319.20	ents: 21	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C15743_XTM-A	XTM - 19mm LES 43.0° / 98.0° 93 % 1.1 cd/lm 1 White ents:	



PHOTOMETRIC DATA (SIMULATED):

CITIZEN		
LED	CLL04x/CLU04x	
FWHM / FWTM	37.0° / 90.0°	
Efficiency	95 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
BJB: 47.319.2030		
CITIZEN		1600 - 1500 -
LED	CLU730/731	100
FWHM / FWTM	37.0° / 93.0°	
Efficiency	91 %	1109
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	•••
Light colour	White	799
Required components:		609 509
BJB: 47.319.2030		•••
		»
		100
		-126.0* -122.6* -96.0* -46.0* -45.4* -45.4* -65.4* -65.4* -45.4* -45.4* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6* -122.6*
SAMSUN	IG	90 ⁴
LED	LC040D / LC060D / LC080D	
FWHM / FWTM	41.0° / 94.0°	
Efficiency	90 %	60°
Peak intensity	1.3 cd/lm	
	1	
LEDs/each optic		
LEDs/each optic Light colour	White	gr 200
	White	er
Light colour	White	g
Light colour Required components:	White	ç. 00



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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