

ILONA-W

~35° wide beam

SPECIFICATION:

Dimensions	Ø 49.8 mm
Height	29.7 mm
Fastening	socket
ROHS compliant	yes 🛈



LEDiĽ

MATERIALS:

Component ILONA-W

Type Single lens

Material	Colour	Fi
PMMA	clear	

Finish

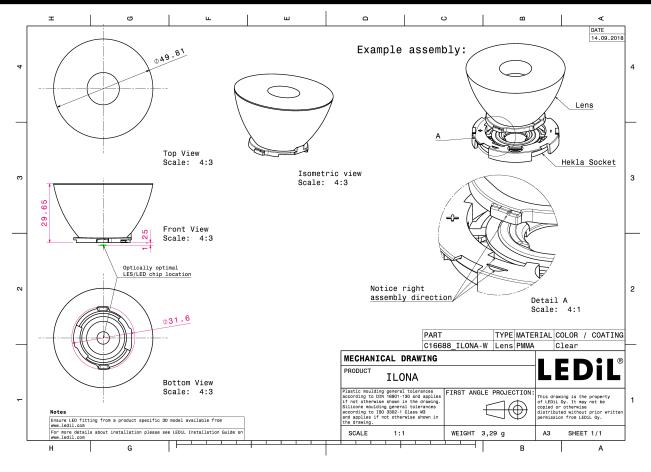
ORDERING INFORMATION:

Component C16688_ILONA-W » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
264	99	33	10.1



PRODUCT DATASHEET C16688_ILONA-W



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



bridgelux.		90° XX 90
LED	V11 HD Gen 8	
FWHM / FWTM	35.0° / 67.0°	77
Efficiency	91 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	5 ⁴
Required compone		
Bender Wirth: 63		
		200
		30° 300 30° 30° 30° 30° 30° 30° 30° 30°
bridgelux.		50° 50
LED	V6 HD Gen 7	
FWHM / FWTM	38.0° / 62.0°	
Efficiency	93 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	a. 1200 at 1200
Required compone	ents:	
Bender Wirth: 63	34c Hekla	150
		30* 2000 30
		<u>133</u> of 132
bridgelux.		50 ⁴ 50 ⁴
LED	V6 HD Gen 7	7
FWHM / FWTM	39.0° / 62.0°	
Efficiency	93 %	602
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	9°
Required compone		
F15255_HEKLA	-SOCKET-C	1500
		30* 200
bridgelux.		
	Vooto DTW/ 12mm (21\//)	
LED FWHM / FWTM	Vesta DTW 13mm (21W)	72
	35.0° / 72.0° 87 %	
Efficiency		
Peak intensity	1.6 cd/lm	
LEDs/each optic	1 Tunable White	
Light colour Required compone		
C16142_HEKLA Bender Wirth: 49		
	эттур го	
		30 ⁴ 10 ⁵⁰ 30 ⁴ 30 ⁵



bridgelux.		59* 50*
LED	Vesta TW 6mm DP	
FWHM / FWTM	39.0° / 63.0°	
Efficiency	88 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	er e
Required compone	ents:	
C16142_HEKL/	A-SOCKET-K	
Bender Wirth: 5	04 Typ L8	500
		34* 359 6* 35°
CITIZE	'N	99 ⁴ 99
LED	CLU7B2	
EED FWHM / FWTM	41.0° / 61.0°	
Efficiency	92 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	er X
Required compone		
F15255_HEKLA		
		160
		30*
	EDS	1 227 - 70 ⁶⁰ - 127 -
		90° 90
	LUXEON CX Plus CoB L08 (Gen2)	72
FWHM / FWTM	36.0° / 72.0° 90 %	
Efficiency	90 % 1.6 cd/lm	
Peak intensity LEDs/each optic	1	
Light colour	White	e ^y
Required compone		
Bender Wirth: 6		
		1500
•		257 OP 157
		»*
LED	LUXEON CX Plus CoB - HD S01H4	72
FWHM / FWTM	39.0° / 61.0°	
Efficiency	93 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 6	34c Hekla	
		30° 30° 30° 30° 30° 30° 30° 30° 30° 30°



UMIL	EDS	90° 90°
LED	LUXEON CX Plus CoB - HD S02H6	
FWHM / FWTM	38.0° / 61.0°	
Efficiency	93 %	60 ⁻
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 63	34c Hekla	369
	EDS	20 10 10 10 10 10 10 10 10 10 10 10 10 10
LED	LUXEON CX Plus CoB - HD S04H9	
FWHM / FWTM	35.0° / 63.0°	
Efficiency	92 %	
Peak intensity	2.1 cd/lm	60 ⁵ 60
LEDs/each optic	1	
Light colour	White	
Required compone		
Bender Wirth: 63		
		30° (15° (1° 1
MUMIL 🍼	EDS	90 [,]
		99* 90
	EDS LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0°	90° 90°
LED	LUXEON CX Plus CoB L04 / L05 (Gen2)	99° 99 72 72 800 800 800 800 800 800 800 800 800 80
LED FWHM / FWTM	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0°	99°
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 %	60° 000 00 27° 000 00 39°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 87a Hekla	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPLE Emails Compose Bender Wirth: 64 COMPLE Emails Compose Bender Wirth: 64 COMPLE Emails Compose FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 % 2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPARENTION Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPUTE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 % 2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPARENTION Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 % 2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 COMPUTE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L04 / L05 (Gen2) 34.0° / 66.0° 92 % 1.9 cd/lm 1 White nts: 37a Hekla EDS LUXEON CX Plus CoB M02 / M03 (Gen2) 35.0° / 63.0° 92 % 2 cd/lm 1 White nts:	



	FDC	
UMIL	EDS	50° 50°
LED	LUXEON CX Plus CoB S01 (Gen2)	75
FWHM / FWTM	12.0° / 23.0°	
Efficiency	94 %	60°
Peak intensity	14.3 cd/lm	400
LEDs/each optic	1	
Light colour	White	9°
Required compone	nts:	
Bender Wirth: 63	34c Hekla	
		30 ¹⁰ 0 ¹⁰ 30 ¹⁰
	EDS	90° 1
LED	LUXEON Fusion 21-up (20x24)	
FWHM / FWTM	37.0° / 64.0°	77 400
Efficiency	91 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	21	
Light colour	White	er er
Required compone		
C16142_HEKLA		
Bender Wirth: 44		

		15" 15" 15"
	NUS	50° A 50°
		50*
LED	CXM-3	22
LED FWHM / FWTM		90 ⁴ 90 ⁴
LED FWHM / FWTM Efficiency	CXM-3 41.0° / 61.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity	CXM-3 41.0° / 61.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts:	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts:	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15255_HEKLA	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	2000 30* 2000 20* 20*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 500 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 200 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 200 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 200 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	2600 26 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C NUS CXM-4 41.0° / 62.0° 94 % 1.9 cd/lm 1	2600 26 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹ 25 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 200 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 200 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	50° 200 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA:	CXM-3 41.0° / 61.0° 93 % 1.9 cd/lm 1 White nts: -SOCKET-C	



СЛЛЛСІ		
SVWSI	JNU	90°
LED	LC010T (Tunable White)	72
FWHM / FWTM	35.0° / 65.0°	
Efficiency	90 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	Tunable White	9 ⁴⁴
Required compone		
C16142_HEKLA		
Bender Wirth: 50	11 Typ L8	
		36* 227 2000 237
SEOUL SEOUL SEMICONDUCTOR		9° 25
LED	MJT COB LES 14.5	
FWHM / FWTM	36.0° / 74.0°	27
Efficiency	90 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	5°
Required compone	nts:	
F17438_HEKLA	-G2-I	
		20-
SEOUL		332) dy 323
SEOUL SEMICONDUCTOR		<u>9</u> %*
LED	MJT COB LES 6	
FWHM / FWTM	39.0° / 63.0°	
Efficiency	94 %	
-		
Peak intensity	1.9 cd/lm	
Peak intensity LEDs/each optic	1	
Peak intensity LEDs/each optic Light colour	1 White	2 ⁴ 120
Peak intensity LEDs/each optic Light colour Required compone	1 White nts:	
Peak intensity LEDs/each optic Light colour	1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone	1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone	1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	1 White nts:	90
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	1 White nts: -G2-C	30 ⁰ 25 [°] 25 [°] 25 [°] 25 [°]
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	1 White nts: -G2-C MJT COB LES 9.8	30 ⁰ 25 [°] 25 [°] 25 [°] 25 [°]
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA seous semiconductor LED FWHM / FWTM	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0°	30 ⁰ 25 [°] 25 [°] 25 [°] 25 [°]
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA seous semiconductor LED FWHM / FWTM Efficiency	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0° 93 %	30 ⁰ 25 [°] 25 [°] 25 [°] 25 [°]
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA F17435_HEKLA ED FWHM / FWTM Efficiency Peak intensity	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0°	30 ⁰ 25 [°] 25 [°] 25 [°] 25 [°]
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0° 93 % 2 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA Stout stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0° 93 % 2 cd/lm 1 White	30 ⁰ 25 [°] 25 [°] 25 [°] 25 [°]
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0° 93 % 2 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA Stout stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0° 93 % 2 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone F17435_HEKLA	1 White nts: -G2-C MJT COB LES 9.8 35.0° / 65.0° 93 % 2 cd/lm 1 White nts:	



TRIDON	VIC		90* 90
LED	SLE G7 LES09		
FWHM / FWTM	36.0° / 64.0°		
Efficiency	92 %		607 607
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		45* 45
Required compone	ents:		
F15255_HEKLA	A-SOCKET-C		30 ⁴ 20 20 20 20 20 20 20 20 20 20 20 20 20 2



bridgelux.		50°
LED	V13 Gen 8	75°
FWHM / FWTM	36.0° / 72.0°	400
Efficiency	85 %	60°
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	43.4
Required components:		1200
F15859_HEKLA-SO	CKET-I	
		30° 30°
		15° 0° 15°
bridgelux.		90*
LED	V4 HD Gen 7	
FWHM / FWTM	38.0° / 64.0°	73* 731
Efficiency	91 %	
Peak intensity	2 cd/lm	PV
LEDs/each optic	1	
Light colour	White	45* 1220 43*
Required components:		
F15253_HEKLA-SO	CKET-A	1600
		30° 30° 30° 30° 30° 30° 30° 30° 30° 30°
bridgelux.		50° N°
bridgelux. LED	V9 HD Gen7	50°
	V9 HD Gen7 36.0° / 64.0°	5° 5° 50° 50°
LED		600 23 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM	36.0° / 64.0°	60 60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency	36.0° / 64.0° 89 %	60*
LED FWHM / FWTM Efficiency Peak intensity	36.0° / 64.0° 89 % 2 cd/lm	60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	36.0° / 64.0° 89 % 2 cd/lm 1	60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	36.0° / 64.0° 89 % 2 cd/lm 1 White	60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	36.0° / 64.0° 89 % 2 cd/lm 1 White	9° (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	36.0° / 64.0° 89 % 2 cd/lm 1 White	9° (129) (129)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	36.0° / 64.0° 89 % 2 cd/lm 1 White	9° 6° 8° 129 6° 109
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	36.0° / 64.0° 89 % 2 cd/lm 1 White XKET-I	30. 20. 20. 20. 20. 20. 20. 20. 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	36.0° / 64.0° 89 % 2 cd/lm 1 White CKET-I	30. 20. 20. 20. 20. 20. 20. 20. 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	36.0° / 64.0° 89 % 2 cd/lm 1 White XKET-I	30. 20. 20. 20. 20. 20. 20. 20. 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	36.0° / 64.0° 89 % 2 cd/lm 1 White CKET-I	30. 20. 20. 20. 20. 20. 20. 20. 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC	36.0° / 64.0° 89 % 2 cd/lm 1 White CKET-1 Vero SE 13 37.0° / 78.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgeLux. LED FWHM / FWTM Efficiency	36.0° / 64.0° 89 % 2 cd/lm 1 White CKET-I Vero SE 13 37.0° / 78.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity	36.0° / 64.0° 89 % 2 cd/lm 1 White CKET-I Vero SE 13 37.0° / 78.0° 85 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	36.0° / 64.0° 89 % 2 cd/lm 1 White CKET-I Vero SE 13 37.0° / 78.0° 85 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	36.0° / 64.0° 89 % 2 cd/lm 1 White XET-I Vero SE 13 37.0° / 78.0° 85 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	36.0° / 64.0° 89 % 2 cd/lm 1 White XET-I Vero SE 13 37.0° / 78.0° 85 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15859_HEKLA-SOC bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	36.0° / 64.0° 89 % 2 cd/lm 1 White XET-I Vero SE 13 37.0° / 78.0° 85 % 1.3 cd/lm 1 White	



bridgelux.		300,0	90° 90°
LED	VERO10		
EED FWHM / FWTM	36.0° / 64.0°	In	75*
		va	
Efficiency	90 %	o nate	60° 60°
Peak intensity	2 cd/lm	Y coordinate value o	
LEDs/each optic	1	CO	
Light colour	White	>	
Required components:		-300,0	
F15616_HEKLA-SC	OCKET-F	-300,0 0	300,0
		X coordinate value	
			364 359 04 359
bridgelux.		300,0	9* 9*
	Vacto DTW Ome (AVAUSIAUA SIAV		
	Vesta DTW 9mm (4W/6W/12W)	an a	73'
FWHM / FWTM	36.0° / 64.0°	Va.	
Efficiency	90 %	coordinate value	60°
Peak intensity	1.9 cd/lm	ip	
LEDs/each optic	1	COC	
Light colour	White	➤	1200 er
Required components:		-300,0	
C16142_HEKLA-SC		-300,0 0	300,0
Bender Wirth: 490 T	yp L8	X coordinate value	
			36* 2000 30*
OTTIZEN			135 ⁴ 0 ⁴ 135 ⁴
CITIZEN			90° 90°
LED	CLL02x/CLU02x (LES10)		
FWHM / FWTM	35.0° / 64.0°		400
Efficiency	79 %		60°
Peak intensity	1.9 cd/lm		
LEDs/each optic	1		
Light colour	White		43°
Required components:			
F15255_HEKLA-SC			
-			
			30° 30° 30° 30°
CITIZEN			50* <u>50</u> *
LED	CLU700/701/702/703		
FWHM / FWTM	38.0° / 63.0°		400
Efficiency	84 %		
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		45° 1200 45 ⁴
Required components:			
F15255_HEKLA-SC			100
			500
			500 30 ⁴ 25 ¹ 0 ² 15 ²



CITIZEN		90° 90°
LED	CLU712/713	
FWHM / FWTM	36.0° / 66.0°	75*
Efficiency	90 %	
	90 % 2 cd/lm	60*
Peak intensity		\times / \sim
LEDs/each optic	1 White	
Light colour	White	
Required components:		
F17438_HEKLA-G2-I		1000
		36° 2000 36° 36°
		90* 90*
LEDs	CHA0304	
FWHM / FWTM	CHA0304 38.0° / 62.0°	75
Efficiency	38.0° / 62.0° 91 %	
Peak intensity	2 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	' White	ar
Required components:	White	
F17435_HEKLA-G2-0	<u>_</u>	1690
	5	
		- 30° - 30° - 30°
CREE ≑		25 ⁷ 0 ⁴ 15 ⁴
		90° 30° 30° 30°
LED	CHA0410	95° 96° 96° 96° 96° 96° 96° 96°
LED FWHM / FWTM	38.0° / 63.0°	
LED FWHM / FWTM Efficiency	38.0° / 63.0° 91 %	
LED FWHM / FWTM Efficiency Peak intensity	38.0° / 63.0° 91 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 63.0° 91 % 2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 63.0° 91 % 2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 63.0° 91 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 63.0° 91 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 63.0° 91 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 63.0° 91 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0	38.0° / 63.0° 91 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0	38.0° / 63.0° 91 % 2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0	38.0° / 63.0° 91 % 2 cd/lm 1 White C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0	38.0° / 63.0° 91 % 2 cd/lm 1 White C C C C C C C C C C C C C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0	38.0° / 63.0° 91 % 2 cd/lm 1 White C C C C C MA1825 35.0° / 68.0° 87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0	38.0° / 63.0° 91 % 2 cd/lm 1 White C C CMA1825 35.0° / 68.0° 87 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0 CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 63.0° 91 % 2 cd/lm 1 White C C C C C MA1825 35.0° / 68.0° 87 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0 CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 63.0° 91 % 2 cd/lm 1 White C C CMA1825 35.0° / 68.0° 87 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0 CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 63.0° 91 % 2 cd/lm 1 White C C C C C MA1825 35.0° / 68.0° 87 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0 CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 63.0° 91 % 2 cd/lm 1 White C C C C C MA1825 35.0° / 68.0° 87 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17435_HEKLA-G2-0 CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 63.0° 91 % 2 cd/lm 1 White C C C C C MA1825 35.0° / 68.0° 87 % 1.8 cd/lm 1 White	



)S	50* 50*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F17437_HEKLA-G2-	LUXEON CoB 1202/1203 36.0° / 66.0° 88 % 1.9 cd/lm 1 White	25° 60° 7° 65° 60° 7° 65° 60° 7° 500 6° 500 6°
	DS	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1202s 36.0° / 64.0° 91 % 2.1 cd/lm 1 White	27 - 00 - 27 - 20 27 - 00 - 0 - 00 27 - 00 - 0 - 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1204/1205 35.0° / 69.0° 87 % 1.8 cd/lm 1 White	30 ⁴
	DS S	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CoB 1208 32.0° / 62.0° 88 % 2.1 cd/lm 1 White	



ΜΝΙCΗΙΛ		90* 90*
LED	COB S-Type (LES 7)	
FWHM / FWTM	36.0° / 64.0°	75* 73*
Efficiency	90 %	
Peak intensity	1.9 cd/lm	60 ¹
LEDs/each optic	1	
Light colour	White	45* 1230 65
Required components:		
F15848_HEKLA-SO	CKET-G	1600
		30- 200 34
		2000 13° 0° 15°
ΜΝΙCΗΙΛ		50° 30'
LED	NFSWE11A	
FWHM / FWTM	36.0° / 65.0°	400
Efficiency	83 %	60 ¹ 60
Peak intensity	1.8 cd/lm	
LEDs/each optic	30	
Light colour	White	95* 95
Required components:		1200
C16142_HEKLA-SO	CKET-K	
		1630
		30. 3.
OSRAM		
USRAM		
Opto Semiconductors		90* 90*
Opto Semiconductors	Duris S8	90° 90°
Opto Semiconductors	Duris S8 38.0° / 64.0°	9°* 99'
Opto Semiconductors		60 25 26 26 26 26 27 26 27 26 27 27 27 28
^{Opto Semiconductors} LED FWHM / FWTM	38.0° / 64.0°	
^{opto Semiconductors} LED FWHM / FWTM Efficiency	38.0° / 64.0° 88 % 2 cd/lm 1	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 64.0° 88 % 2 cd/lm	92* 92* 73* 600 92 60* 60 60* 60 60* 60 60* 60 60* 60 60* 60*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 64.0° 88 % 2 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 64.0° 88 % 2 cd/lm 1 White	97 97 60 60 - 1520 - 1520 - 1520 - 1520
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 64.0° 88 % 2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 64.0° 88 % 2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOC	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G	50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOC	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G	500
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB	50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO PHILIPS LED FWHM / FWTM	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0°	50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FUSHING SEA LED FWHM / FWTM Efficiency	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 %	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FUHHILLED FWHM / FWTM Efficiency Peak intensity	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 % 2 cd/lm	500
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FMHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 % 2 cd/lm 1	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FMHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 % 2 cd/lm	350
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 % 2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FMHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 % 2 cd/lm 1 White	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15848_HEKLA-SOO FMHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	38.0° / 64.0° 88 % 2 cd/lm 1 White CKET-G Fortimo SLM L09 CoB 35.0° / 66.0° 89 % 2 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°



PHILIPS	5	94 ⁴ 99
LED	Fortimo SLM L13 CoB	27
FWHM / FWTM	35.0° / 70.0°	
Efficiency	86 %	ge
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	a.
Required components:		4
Bender Wirth: 632a	Hekla XL	
		1600
		34° 25° 4° 25°
PHILIPS	5	94 ²
LED	Fortimo SLM L15 CoB	
FWHM / FWTM	37.0° / 74.0°	27
Efficiency	85 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g.
Required components:		
Bender Wirth: 632a		1220
		304 1000 3
A B B B B B B B B B B		15° 0° 15°
SVM20	NG	90° 9
	NG LC003D / LC006D / LC009D / LC013D	30 ⁴
		20 June 1
	LC003D / LC006D / LC009D / LC013D	
LED FWHM / FWTM	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0°	80 ⁴ 72 60 80
LED FWHM / FWTM Efficiency	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 %	80* 27 605 500
LED FWHM / FWTM Efficiency Peak intensity	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm	20* 27 60 67 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White	25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White	25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White	25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White	25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White OCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White OCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White OCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSUI LED FWHM / FWTM Efficiency	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White OCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSUI LED FWHM / FWTM Efficiency Peak intensity	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White CKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSUI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White DCKET-C NG LC010C 38.0° / 64.0° 87 % 1.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSUI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White DCKET-C NCG LC010C 38.0° / 64.0° 87 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White DCKET-C NCC LC010C 38.0° / 64.0° 87 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White DCKET-C NCC LC010C 38.0° / 64.0° 87 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: F15255_HEKLA-SC SAMSUU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LC003D / LC006D / LC009D / LC013D 35.0° / 64.0° 80 % 1.9 cd/lm 1 White DCKET-C NCC LC010C 38.0° / 64.0° 87 % 1.9 cd/lm 1 White	



LED LC020C FWHM / FWTM 34.0° / 62.0° Efficiency 90% Peak intensity 2.2 cd/m LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2-I XOE 9.8 mm FWHM / FWTM 36.0° / 65.0° Efficiency 88% Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-I	SAMSU	NG	50* 50
FWHM / FWTM 34.0° / 62.0° Efficiency 90% Peak intensity 2.2 cd/m LEDS/each optic 1 Light colour White Required components: F17435_HEKLA-G2-I XUECATO LED XOB 9.8 mm FWHM / FWTM 36.0° / 65.0° Efficiency 88% Peak intensity 1.9 cd/m LEDS/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C XUECATO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency White Required components: F17435_HEKLA-G2-C XUECATO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency White Required components: F17435_HEKLA-G2-C	LED		
Peak intensity 2.2 cd/lm LED& 200 Pa mm F17438_HEKLA-G2-1	FWHM / FWTM		73
Peak intensity 2.2 cd/lm LED& 200 Part Mite Required components: F17438_HEKLA-G2:1	Efficiency	90 %	
LEDs/each optic 1 Light colour White Required components: F17438_HEKLA-G2:1	-		
Required components: F17438_HEKLA-G2-I	LEDs/each optic	1	
Required components: F17438_HEKLA-G2-I	Light colour	White	9
LED XOB 9.8 mm FWHM / FWTM S6.0° / 65.0° Efficiency 88 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C	Required component	s:	100
XICATO LED XOB 9.8 mm FWHM / FWTM 36.0° / 65.0° Efficiency 88 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C XICATO Efficiency 89 % Peak intensity 3.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/m LEDs/each optic 1 Light colour White Required components: 1 Light colour Wite Required components: 1 Light colour White Required components: 1 Light colour White Required components: 1 Light colour White Required components: 1	F17438_HEKLA-G	62-I	
XICATO LED XOB 9.8 mm FWHM / FWTM 36.0° / 65.0° Efficiency 88 % Peak intensity 1.9 cd/m LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C XICATO Efficiency 89 % Peak intensity 3.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/m LEDs/each optic 1 Light colour White Required components: 1 Light colour Wite Required components: 1 Light colour White Required components: 1 Light colour White Required components: 1 Light colour White Required components: 1			
LED XOB 9.8 mm FWHM / FWTM 36.0° / 65.0° Efficiency 88 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 89 % Peak intensity 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:			30.4 20
LED XOB 9.8 mm FWHM / FWTM 36.0° / 65.0° Efficiency 88 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C Efficiency 89 % Peak intensity 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:			
FWHM / FWTM 36.0° / 65.0° Efficiency 88 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C F17435_HEKLA-G2-C Image: Component is the state of the	ΧΙζΑΤΟ		50° 5
Efficiency 88 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C CICCATO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	LED	XOB 9.8 mm	
Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C EDS/EACTO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM	36.0° / 65.0°	40
LEDs/each optic 1 Light colour White Required components: F17435_HEKLA-G2-C F17435_HEKLA-G2-C F17435_HEKLA-G2-C SICCATO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	Efficiency	88 %	
Light colour White Required components: F17435_HEKLA-G2-C CICCATO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/m LEDs/each optic 1 Light colour White Required components:	Peak intensity	1.9 cd/lm	
Required components: F17435_HEKLA-G2-C F17435_HEKLA-G2-C Image: Components of the second	LEDs/each optic	1	
F17435_HEKLA-G2-C	Light colour		₫ [*] 4
XICATO LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:			
LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:	F17435_HEKLA-0	62-C	
LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:			
LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************			30 ⁴ 2000 3
LED XTM - 9mm LES FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************	XIC ATO		
FWHM / FWTM 35.0° / 64.0° Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************			
Efficiency 89 % Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:			75
Peak intensity 2 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components:	-		69 ²
Light colour White Required components:			
Required components:			<i>•</i>



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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