

# PRODUCT DATASHEET FN15970\_RONDA-S-C

# **RONDA-S-C**

~25° spot beam with holder C compatible with LEDiL HEKLA

## **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 52.1 mm
Height	17.2 mm
Fastening	socket
ROHS compliant	yes 🛈



## MATERIAL SPECIFICATIONS:

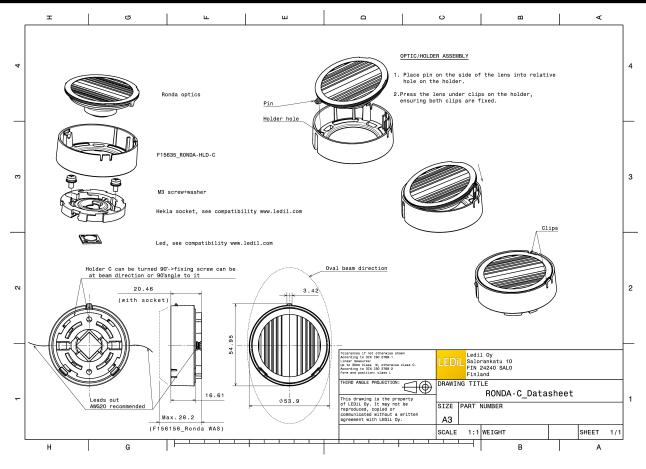
Component	Туре	Material	Colour	Finish
RONDA-S	Single lens	PMMA	clear	
RONDA-HLD-C	Holder	PC	white	

## **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN15970_RONDA-S-C	Single lens	420	120	30	0.0
» Box size:					



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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 F15253_HEKLA		20°
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15253_HEKLA:		20 20 20 20 20 20 20 20 20 20
brdgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA		30 <sup>4</sup> 10 <sup>5</sup> 0 <sup>4</sup> 10 <sup>5</sup> 0 <sup>4</sup>
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15859_HEKLA:		



bridgelux.		100°
LED	VERO10	75*
FWHM / FWTM	25.0° / 53.0°	
Efficiency	87 %	60 <sup>6</sup>
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	97° 65'
Required compone		
F15616_HEKLA	-SOCKET-F	
		2400
		30 <sup>4</sup> 35 <sup>4</sup> 0 <sup>4</sup> 35 <sup>4</sup>
bridgelux.		90*
LED	Vesta TW 13mm (25W) CSP	
FWHM / FWTM	32.0° / 76.0°	
Efficiency	79 %	400
Peak intensity	1.3 cd/lm	$r \sim / / \sim 1$
LEDs/each optic	1	
Light colour	White	9%
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 49	12 Typ L8	1200
		24" 30" 30"
bridgelux.		
LED	Vesta TW 6mm DP	
FWHM / FWTM	20.0° / 41.0°	
Efficiency	83 %	
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 50	14 Typ L8	
bridgelux.		90° 90°
LED	Vesta TW 9mm (12W) CSP	
FWHM / FWTM	26.0° / 55.0°	
Efficiency	82 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	nts:	1520
C16142_HEKLA	SOCKET-K	
C16142_HEKLA Bender Wirth: 48		



CITIZE	N	90° 90°
LED	CLC020 Series (Dim-To-Warm)	
FWHM / FWTM	28.0° / 58.0°	400
Efficiency	81 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45"
Required componen		
C16142_HEKLA-		
		2600
		30° 35°
	-	15,
CITIZE	N	90* 90*
LED	CLL02x/CLU02x (LES10)	255
FWHM / FWTM	26.0° / 54.0°	
Efficiency	86 %	60 <sup>4</sup> 000 00 <sup>5</sup>
Peak intensity	2.3 cd/lm	$\square \land \land \land \land \land \land \land \land \land$
LEDs/each optic	1	$  \times / /   \wedge \times$
Light colour	White	ga
Required componen	nts:	
F15255_HEKLA-	SOCKET-C	
Į.		30° 2400 30°
	NT	30° 200 30°
CITIZE	N	200 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup>
LED	CLU700/701/702	200 200 30° 200 0° 30° 90° 90° 72° 72° 72°
LED FWHM / FWTM	CLU700/701/702 19.0° / 39.0°	30 <sup>4</sup> 2009 30 <sup>4</sup> 35 <sup>7</sup> 0 <sup>6</sup> 35 <sup>9</sup> 35 <sup>4</sup> 35 <sup>4</sup> 35 <sup>4</sup> 35 <sup>4</sup>
LED FWHM / FWTM Efficiency	CLU700/701/702	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm	2002 00 200 200 00 200 200 00 00 200 00 200 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1	200 200 100 20 200 200 200 20 200 20 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White	3 <sup>34</sup> 200 32 <sup>4</sup> 127 0 <sup>4</sup> 12 <sup>5</sup> 9 <sup>5</sup> 9 <sup>5</sup> 9 <sup>5</sup> 9 <sup>5</sup> 9 <sup>6</sup> 9 <sup>7</sup> 9 <sup>7</sup> 9 <sup>6</sup> 9 <sup>7</sup> 9 <sup>7</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White tts:	er er
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White tts:	3 <sup>34</sup> 200 157 0 <sup>4</sup> 15 <sup>3</sup> 5 <sup>4</sup> 5 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White tts:	er er
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White tts:	a
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-3	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-S	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C	er er
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-S	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C N CLU7A2 (LES 4.2mm)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-3 CITTIZEI LED FWHM / FWTM	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C N CLU7A2 (LES 4.2mm) 15.0° / 31.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-3 ETTIZED FWHM / FWTM Efficiency	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C N CLU7A2 (LES 4.2mm) 15.0° / 31.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- <b>CITTIZED</b> LED FWHM / FWTM Efficiency Peak intensity	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C N CLU7A2 (LES 4.2mm) 15.0° / 31.0° 89 % 6.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- F15255_HEKLA- Efficiency Peak intensity LEDs/each optic	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C N CLU7A2 (LES 4.2mm) 15.0° / 31.0° 89 % 6.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- <b>CITTIZED</b> EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C N CLU7A2 (LES 4.2mm) 15.0° / 31.0° 89 % 6.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-3 <b>CITTIZED</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA- <b>CITTIZED</b> EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen F15255_HEKLA-3 <b>CITTIZED</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	CLU700/701/702 19.0° / 39.0° 87 % 4.1 cd/lm 1 White hts: SOCKET-C	



CREE -			90° 9
LED	CMA1516		
FWHM / FWTM	27.0° / 52.0°		
Efficiency	89 %		
Peak intensity	2.5 cd/lm		60* · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1		
Light colour	White		g
Required compone			1600
F15256_HEKLA			
_			
			2000
			27 159 00 15°
CREE 4	ти		90*
LED	CMA1825		75
FWHM / FWTM	33.0° / 68.0°		
Efficiency	87 %		601
Peak intensity	1.6 cd/lm		
LEDs/each optic	1		
Light colour	White		45 <sup></sup> 4
Required compone	nts:		1200
F15254_HEKLA	-SOCKET-B		
			36*
			10 9 10
CRFF-			
			90°
LED	CMT14xx	-	
LED FWHM / FWTM	CMT14xx 28.0° / 55.0°		35 <sup>4</sup>
LED FWHM / FWTM Efficiency	CMT14xx 28.0° / 55.0° 88 %		
LED FWHM / FWTM Efficiency Peak intensity	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White		99 <sup>4</sup> 77 66 <sup>4</sup> 900 900 900 900 900 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C CMT19xx 35.0° / 82.0°		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREEE LED FWHM / FWTM Efficiency Peak intensity	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White Ints: -SOCKET-C CMT19xx 35.0° / 82.0° 82 %		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White I White SOCKET-C CMT19xx 35.0° / 82.0° 82 % 1.2 cd/lm		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints: -SOCKET-C CMT19xx 35.0° / 82.0° 82 % 1.2 cd/lm 1 White		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints: -SOCKET-C CMT19xx 35.0° / 82.0° 82 % 1.2 cd/lm 1 White ints:		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints: -SOCKET-C CMT19xx 35.0° / 82.0° 82 % 1.2 cd/lm 1 White ints:		204 <u>200</u> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CMT14xx 28.0° / 55.0° 88 % 2.3 cd/lm 1 White ints: -SOCKET-C CMT19xx 35.0° / 82.0° 82 % 1.2 cd/lm 1 White ints:		204 <u>200</u> 20



CREE 4		90 <sup>4</sup> 30 <sup>0</sup>
LED	CXA/B 13xx	
FWHM / FWTM	19.0° / 39.0°	71
Efficiency	88 %	
Peak intensity	4.4 cd/lm	69* 100 K
LEDs/each optic	1	
Light colour	White	g
Required compone		
F15956_HEKLA		
_		
		310 300
CREE ÷	<u> </u>	10 <sup>-</sup> 400 10 <sup>-</sup>
LED	CXA/B 15xx	
FWHM / FWTM	25.0° / 50.0°	
Efficiency	88 %	60.4
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required compone		
F15256_HEKLA	-SOCKET-D	
		200
		- 20 <sup>-</sup> 0 <sup>0</sup> 20 <sup>-</sup> 00
UMIL	EDS	50'
LUMIL		50 <sup>4</sup> 50
LED	EDS LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0°	30 <sup>3</sup>
	LUXEON CX Plus CoB L08 (Gen2)	
LED FWHM / FWTM	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0°	
LED FWHM / FWTM Efficiency	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 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 L08 (Gen2) 36.0° / 82.0° 84 % 1.2 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 L08 (Gen2) 36.0° / 82.0° 84 % 1.2 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 L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 87a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 87a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 % 4.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 WIM / WITH: 63 FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 % 4.1 cd/lm 1	79 190 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 Complete Complete Bender Wirth: 63 Complete Complete Complete Complete Bender Wirth: 63 Complete Complete Complete Complete Complete Complete Bender Wirth: 63 Complete Complete Com	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 % 4.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>WIM / EVIN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 % 4.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 Complete Complete Bender Wirth: 63 Complete Complete Complete Complete Bender Wirth: 63 Complete Complete Complete Complete Complete Complete Bender Wirth: 63 Complete Complete Com	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 % 4.1 cd/lm 1 White nts:	73 61 <sup>2</sup> 100 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 63 <b>With</b> / 63 <b>UUMIL</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CX Plus CoB L08 (Gen2) 36.0° / 82.0° 84 % 1.2 cd/lm 1 White nts: 37a Hekla EDS LUXEON CoB 1202HD 21.0° / 40.0° 89 % 4.1 cd/lm 1 White nts:	



COMIL	EDS	50 <sup>1</sup> 90 <sup>1</sup>
LED	LUXEON CoB 1202s	
FWHM / FWTM	19.0° / 39.0°	75
Efficiency	89 %	
Peak intensity	4.4 cd/lm	01 <sup>2</sup>
LEDs/each optic	1	
Light colour	White	gr / / /
Required compone		
F15848_HEKLA		
		25° (#5) 55°
UMIL	EDS	90 <sup>4</sup>
LED	LUXEON CoB 1204HD	
FWHM / FWTM	27.0° / 51.0°	
Efficiency	88 %	90 <sup>1</sup>
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	54 160
Required compone	nts:	
F15858_HEKLA	-SOCKET-H	
		2000
		300
	EDS	94 <sup>1</sup> 9
LED	LUXEON CoB 1205HD	
LED FWHM / FWTM	LUXEON CoB 1205HD 31.0° / 61.0°	
LED FWHM / FWTM Efficiency	LUXEON CoB 1205HD 31.0° / 61.0° 86 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CoB 1205HD 31.0° / 61.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H	250 250 250 250 250 250 250 250 250 250
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4	250 250 250 250 250 250 250 250 250 250
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0°	250 250 250 250 250 250 250 250 250 250
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 %	250 250 250 250 250 250 250 250 250 250
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 % 5 cd/lm	30 - 25 - 25 - 27 - 27 - 27 - 27 - 27 - 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 % 5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: -SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 % 5 cd/lm 1 White	250 250 250 250 250 250 250 250 250 250
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 % 5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 % 5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15858_HEKLA	LUXEON CoB 1205HD 31.0° / 61.0° 86 % 1.8 cd/lm 1 White nts: SOCKET-H EDS LUXEON CX Plus CoB - HD S01H4 18.0° / 37.0° 89 % 5 cd/lm 1 White nts:	



	.EDS	50 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6		
	EDS	351 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB - HD S04H9 26.0° / 51.0° 88 % 2.6 cd/lm 1 White ents:	
	FDS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6	LUXEON CX Plus CoB L04 / L05 (Gen2) 31.0° / 63.0° 87 % 1.8 cd/lm 1 White ents: 37a Hekla	
🥙 LUMIL	.EDS	»"
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6		



UMIL	.EDS	50 <sup>**</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Bender Wirth: 6		
ELUM	INUS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL/ Bender Wirth: 4	CDM-9 (Dim-To-Warm) 26.0° / 52.0° 82 % 2.3 cd/lm 1 White ents: A-SOCKET-K	
ELUM	INUS	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA	CXM-4 16.0° / 33.0° 88 % 5.6 cd/lm 1 White ents: A-SOCKET-C	
ELUM	INUS	90 <sup>10</sup> 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKLA		73 64 64 67 60 60 60 60 60 60 60 60 60 60 60 60 60



PHILIP	10	
		»*
LED	Fortimo SLM L09 CoB	7
FWHM / FWTM	26.0° / 51.0°	
Efficiency	87 %	ge*
Peak intensity	2.5 cd/lm	
LEDs/each optic	1 White	
Light colour		
Required compone F15858_HEKLA		
T 10000_HEREA		
		800
		30° 25° 0' 15°
PHILIP	<b>S</b>	**
LED	Fortimo SLM L13 CoB	
FWHM / FWTM	33.0° / 77.0°	
Efficiency	80 %	6 <sup>1</sup>
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C16140_CLAMF	-VERO29	
Bender Wirth: 43	32 Typ L8	1200
		30° m ot 100
PHILIF	S	
LED	Fortimo SLM L13 CoB	and the second
FWHM / FWTM	33.0° / 77.0°	
Efficiency	80 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
C16142_HEKLA	-SOCKET-K	
Bender Wirth: 43		
SAMSI	ING	50*
		99 <sup>4</sup>
LED	LC003D / LC006D / LC009D / LC013D	90 <sup>+</sup>
FWHM / FWTM	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0°	98* 27
LED FWHM / FWTM Efficiency	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 %	95 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 % 2.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 % 2.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 % 2.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 % 2.3 cd/lm 1 White ints:	5°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 % 2.3 cd/lm 1 White ints:	5°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC003D / LC006D / LC009D / LC013D 27.0° / 55.0° 87 % 2.3 cd/lm 1 White ints:	5°.



LED LC010C FWHM/FWTM 20.07/41.0° Efficiency 88 % Peak intensity 3.8 dd/m LED/sech optic 1 Light colour While Required components: F15846_HEKLA-SOCKET-G SAMSUNC LED LC010C 62 EWHM / FWTM 19.07/33.0° Efficiency 87 % Peak intensity 4.3 dd/m LED/sech optic 1 Light colour While Required components: F15255_HEKLA-SOCKET-C SAMSUNC LED LC010T (Turable While Required components: F15255_HEKLA-SOCKET-C SAMSUNC LED LC010T (Turable While Required components: F15255_HEKLA-SOCKET-C SAMSUNC LED LC010T (Turable While Required components: F15255_HEKLA-SOCKET-C SAMSUNC LED LC010T (Turable While Required components: F15255_HEKLA-SOCKET-K Bender Wint: S01 Typ L8	<b>S</b> ΛΜS	JNG	50°	
Efficiency 88% Peak Intensity 3.8 cd/m Light cloor While Required components: F1584. HEKLA-SOCKET-G SAMS UNG LED LC0100 C2 FWHM / FWTM 18.0° / 38.0° Fficiency 7% Peak Intensity 4.3 cd/m LED/acah offic 1 Light cloor While Required components: F15255. HEKLA-SOCKET-C SAMS UNG LED LC0107 (Fundble While) Required components: F15255. HEKLA-SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K F15255. HEKLA-SOCKET-K Bender White SOCKET-K F15255. HEKLA-SOCKET-K F15255. HEKLA-SOCKET-K F15255. HEKLA-SOCKET-K F15255. HEKLA-SOCKET-K F15255. HEKLA-SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K Bender White SOCKET-K F15255. HEKLA-SOCKET-I	LED		24	A
Peak Intensity 3.8 od/m EEDWaach optic 1 EEDWaach optic 1 EEDWaach optic 2 Prosent PEAK A-SOCKET-G SAMSUNC EED LCO100 G2 WMM / PVTM 19.97/38.0° Efficiency 97% Peak Intensity 3.3 od/m EEDWaach optic 1 LEDWaach optic 1	FWHM / FWTM	20.0° / 41.0°		
LEDviewh optic 1 Light toolur White Required components: F15949_HEKLA-SOCKET-G SAMSUNC LED LC010C G2 FWHM / FWTM 19.07 /38.0° Efficiency 87 % Peak Intensity 4.3 addm Light toolur White Required components: F1525_HEKLA-SOCKET-C SAMSUNC LED LC0107 (Tunable White) Required components: C15142_HEKLA-SOCKET-K Bender Wint: S01 Typ L8 SAMSUNC LED LC016D / LC026D / LC023D FWHM / FWTM 24.0° / 56.0° Efficiency 25.7 % Bender Wint: S01 Typ L8 SAMSUNC LED LC016D / LC026D / LC023D FWHM / FWTM 24.0° / 56.0° Efficiency 79.% Peak Intensity 1.1 adim LEDWatch optic 1 Light toolur White Required components: C15142_HEKLA-SOCKET-K Bender Wint: S01 Typ L8	Efficiency	88 %	60*	$\times / / / \times \mathbb{Y}$
Light colour While Required components: F 1584, FEKLA-SOCKET-G SAMSUNG LED LED Konney 87% Required components: F 1525, FEKLA-SOCKET-C SAMSUNG LED Konney 82% Peak intensity 2.1 cd/m LED/acho pic 1 Light colour Turable White Required components: C 15142, FEKLA-SOCKET-K Bender Writh: 50 Typ L8 ELD KONNEY 1.1 cd/m LED/acho pic 1 Light colour White Required components: C 15142, FEKLA-SOCKET-K Bender Writh: 50 Typ L8	Peak intensity	3.8 cd/lm		1630
Required components: F15948_HEKLA-SOCKET-G SAMSUNG LED CO10C G2 Efficiency 87% Preak intensity 4.3 cd/m LED/each oftic 1 Light colour White Required components: F15256_HEKLA-SOCKET-C Efficiency 82% Reguired components: C16142_HEKLA-SOCKET-K Bender Write: 501 Typ LB Efficiency 72% Reguired components: C16142_HEKLA-SOCKET-K Bender Write: 501 Typ LB Efficiency 72% Peak intensity 1.1 cd/m LED/each oftic 1 Light colour White Required components: F15256_HEKLA-SOCKET-1	LEDs/each optic	1		
F1994B_HEKLA-SOCKET-G	Light colour	White	45.	2430
SAMSUNG LED COTOG G2 FYHM / FYTM 19.0° / 38.0° Efficiency 87.% Peak intensity 4.3 colim LED/each optic 1 Light colour White Required components: F1525G_HEKLA-SOCKET-C SAMSUNG LED COTOT (Unable White) FYMH / FYTM 28.0° / 56.0° Efficiency 82.% Peak intensity 2.1 colim LED/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender With: 501 Typ LB SAMSUNG LED LC010D / LC020D / LC020D FYMH / FYTM 34.0° / 85.0° Efficiency 79.% Peak intensity 1.1 colim LED/each optic 1 Light colour White Required components: F1580_HEKLA-SOCKET-I	Required compone	nts:		
SAMSUNG LED LOUOC G2 FWH/FVFW/S8.0° Efficiency 87% Peak intensity 4.3 cd/m LEDSeach option 1 Light colour White Required components: F15255_HEKLA-SOCKET-C SAMSUNG LED LOUOT (Tunable White) FWH/FVFW 2.0°/56.0° Efficiency 82% Peak intensity 2.1 cd/m LEDSeach option 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ LB Efficiency 79% Peak intensity 1.1 cd/m LEDSeach option 1 Light colour White Required components: F15259_HEKLA-SOCKET-I	F15848_HEKLA	-SOCKET-G		
SAMSUNG LED LOUIO G2 FWH/F/FVH Efficiency 87% Peak intensity 4.3 cd/m LEDSeach option 1 Light colour White Required components: F15255_HEKLA-SOCKET-C SAMSUNG LED LOUIOT (Tunable White) FWH/F/FVT 2.0 c6.0* Efficiency 82% Peak intensity 2.1 cd/m LEDSeach option 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ LB Efficiency 79% Peak intensity 1.1 cd/m LEDSeach option 1 Light colour White Required components: F15859_HEKLA-SOCKET-I				$\langle \langle \rangle \rangle$
LED LC010C G2 FWHM / FVTM 19.0*/38.0* Eliciancy 87 % Peak intensity 4.3 cd/m LED&leach optic 1 LED&leach optic 1 LED&leach optic 1 LED&leach optic 1 LED LC010T (Tunable White) FWHM / FVTM 26.0* / 56.0* Eliciancy 82 % Peak intensity 2.1 cd/m LED&leach optic 1 LIght colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Winth: 501 Typ L8 ELD LC016D / LC019D / LC026D / LC033D SAMM SUNG LED LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LLpht colour White Required components: F15859_HEKLA-SOCKET-I			34	15° 60° 15°
LED LC010C G2 FWHM / FVTM 19.0*/38.0* Eliciancy 87 % Peak intensity 4.3 cd/m LED&leach optic 1 LED&leach optic 1 LED&leach optic 1 LED&leach optic 1 LED LC010T (Tunable White) FWHM / FVTM 26.0* / 56.0* Eliciancy 82 % Peak intensity 2.1 cd/m LED&leach optic 1 LIght colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Winth: 501 Typ L8 ELD LC016D / LC019D / LC026D / LC033D SAMM SUNG LED LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LED / LC016D / LC019D / LC026D / LC033D SMM / FVTM 34.0* / 55.0* Eliciancy 79 % Peak intensity 1.1 cd/m LLpht colour White Required components: F15859_HEKLA-SOCKET-I	SAMSI	JNG		
EWHM / FVITM 19.0° / 38.0° Efficiency 87 % Peak intensity 4.3 cd/m LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C SAMSUNG LED LC010T (Tunable White) FWHM / FVITM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/m LEDs/each optic 1 LEDs/each optic 1	LED			
Efficiency 87% Peak intensity 4.3 coldm LEDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C SAMASUNG LED LC010T (Tunable White) FWHM / FVTTM 26.0° / 56.0° Efficiency 82% Peak intensity 2.1 col/m LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 LED LC016D / LC026D / LC033D EWHM / FVTTM 34.0° / 85.0° Efficiency 79% Peak intensity 1.1 col/m LEDS/each optic 1 LEDS/each optic 1 LE	FWHM / FWTM		73	
Peak intensity 4.3 cd/m LEDS/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C SAMSUNG LED LC010T (Tunable White) FWHM / FVTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/m LEDS/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG LED LC010B / LC026D / LC023D FWHM / FVTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/m LEDS/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	Efficiency			$\land \sqcap \land \land$
LEDs/each optic 1 Light colour White Required components: F15255_HEKLA-SOCKET-C SAMSUNG LED LC010T (Tunable White) FWHM /FWTM 26.0° /56.0° Efficiency 82% Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour numble White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM /FWTM 34.0° /85.0° Efficiency 70% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F15359_HEKLA-SOCKET-I	-		60*	1600
Light colour White Required components: F15255_HEKLA-SOCKET-C SAMSUNG LED LC010T (Tunable White) FWHM / FWTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L3 SAMSUNG LED LC016D / LC026D / LC023D FWHM / FWTM 34.0° / 55.0° Efficiency 79 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour 1 LEDs LC016D / LC026D / LC023D FWHM / FWTM 34.0° / 55.0° Efficiency 79 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour 0 F15859_HEKLA-SOCKET-I	LEDs/each optic	1		
Required components: F15255_HEKLA-SOCKET-C SAMSUNC LED LC010T (Tunable White) FWHM / FWTM 26.0° - 56.0° Efficiency 82.% Peak intensity 2.1 cd/m LEDS/each optic 1 LEDS/each optic 1 LEDS/each optic 1 C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNC LED LC016D / LC026D / LC026D / LC023D FWHM / FWTM 34.0° / 85.0° Efficiency 79.% Peak intensity 1.1 cd/m LEDS/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I		White	42.	
F15255_HEKLA-SOCKET-C		nts:	7	
LED LC010T (Tunable White) FWHM / FWTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I				
LED LC010T (Tunable White) FWHM / FWTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I				
LED LC010T (Tunable White) FWHM / FWTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I			20	35% 0% 35% 3
LED LC010T (Tunable White) FWHM / FWTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I				
FWHM / FWTM 26.0° / 56.0° Efficiency 82 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: E15859_HEKLA-SOCKET-I	SAMSU	JNG	50°	
Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I			50°	
Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8 SAMSUNG LED LC016D / LC026D / LC033D FWHM / FWTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED	LC010T (Tunable White)	98 <sup>3</sup> 78	
Light colour Tunable White Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8	LED FWHM / FWTM	LC010T (Tunable White) 26.0° / 56.0°	95 <sup>3</sup> 71 90	
Required components: C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8	LED FWHM / FWTM Efficiency	LC010T (Tunable White) 26.0° / 56.0° 82 %	94* 77* 80*	
C16142_HEKLA-SOCKET-K Bender Wirth: 501 Typ L8	LED FWHM / FWTM Efficiency Peak intensity	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm	94 <sup>4</sup> 77 61	
C16142_HEKLA-SOCKET-K Bender Wirh: 501 Typ L8	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1	94 37 67 	
SAMSUNG LED LC016D/LC019D/LC026D/LC033D FWHM/FWTM 34.0°/85.0° Efficiency 79 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White	94 <sup>3</sup> 71 97 97	
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts:	94 73 97 97	
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K	94 79 69 70 70	
LED LC016D / LC019D / LC026D / LC033D FWHM / FWTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K	94 73 95 97 97 97	
FWHM / FWTM 34.0° / 85.0° Efficiency 79 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K 01 Typ L8	9 <sup>1</sup>	
Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8	9 <sup>1</sup> 9 <sup>1</sup> 9 <sup>2</sup> 9 <sup>3</sup> 9 <sup>3</sup>	
LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 JNG LC016D / LC019D / LC026D / LC033D	94 94 97 97 97 97 97	
LEDs/each optic 1 Light colour White Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 JNG LC016D / LC019D / LC026D / LC033D 34.0° / 85.0°	94 94 97 97 97 97 97 97 97 97	
Required components: F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 ING LC016D / LC019D / LC026D / LC033D 34.0° / 85.0° 79 %	94 77 84 84 84 84 84 84 84	
F15859_HEKLA-SOCKET-I	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 <b>JNG</b> LC016D / LC019D / LC026D / LC033D 34.0° / 85.0° 79 % 1.1 cd/lm	94 77 97 97 97 97 97 97 97	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 <b>JNGG</b> LC016D / LC019D / LC026D / LC033D 34.0° / 85.0° 79 % 1.1 cd/lm 1	94 97 97 97 97 97 97 97 97 97 97 97 97 97	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 <b>JNGG</b> LC016D / LC019D / LC026D / LC033D 34.0° / 85.0° 79 % 1.1 cd/lm 1 White	94 97 97 97 97 94 94 94 94 94 94 94 94 94 94 94 94 94	
30'	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 <b>JNCG</b> LC016D / LC019D / LC026D / LC033D 34.0° / 85.0° 79 % 1.1 cd/lm 1 White nts:	94 97 97 97 97 97 97 97 97 97 97 97 97 97	
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SAMSU ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC010T (Tunable White) 26.0° / 56.0° 82 % 2.1 cd/lm 1 Tunable White nts: -SOCKET-K D1 Typ L8 <b>JNCG</b> LC016D / LC019D / LC026D / LC033D 34.0° / 85.0° 79 % 1.1 cd/lm 1 White nts:		



SAMS	JNG	50'
LED	LC020C	
FWHM / FWTM	24.0° / 48.0°	
Efficiency	88 %	607
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	100
Light colour	White	
Required compone		
F15848_HEKLA	A-SOCKET-G	200
		34' 30'
SAMS	JNG	St.
LED	LC020C G2	
FWHM / FWTM	25.0° / 51.0°	
Efficiency	85 %	
Peak intensity	2.5 cd/lm	
LEDs/each optic	1	
Light colour	White	9"
Required compone	ents:	
F15859_HEKLA	A-SOCKET-I	
		202
SAMSI	UNG	20°
LED	LC020T (Tunable white)	
LED FWHM / FWTM	LC020T (Tunable white) 33.0° / 76.0°	
LED FWHM / FWTM Efficiency	LC020T (Tunable white) 33.0° / 76.0° 79 %	
LED FWHM / FWTM Efficiency Peak intensity	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 seous semiconductor LED FWHM / FWTM	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKL4 Bender Wirth: 50 SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 % 4.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 % 4.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 secous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 % 4.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 seous semiconoucrox LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 % 4.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 % 4.1 cd/lm 1 White ents:	<i>o</i> .
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16142_HEKLA Bender Wirth: 50 Stout SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LC020T (Tunable white) 33.0° / 76.0° 79 % 1.3 cd/lm 1 Tunable White ents: A-SOCKET-K 01 Typ L8 MJT COB LES 6 19.0° / 39.0° 85 % 4.1 cd/lm 1 White ents:	<i>o</i> .



SEOUL		90° 90°
SEOUL SEMICONDUCTOR	MJT COB LES 9.8	
FWHM / FWTM	27.0° / 56.0°	73"
Efficiency	83 %	
Peak intensity	2.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	gr det
Required compone		$\Gamma \times ( \land X )$
F15255_HEKLA		1000
		30° - 15° 0° 15°
TRIDOM		90° 90°
LED	SLE G7 LES09	
FWHM / FWTM	26.0° / 52.0°	25*
Efficiency	86 %	
Peak intensity	2.5 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45°
Required compone		
F15255_HEKLA		
		2000
		30° 30° 36° 36°
TRIDOM		90* 90*
LED	SLE G7 LES13	
FWHM / FWTM	33.0° / 75.0°	77
Efficiency	81 %	400
Peak intensity	1.3 cd/lm	60°
LEDs/each optic	1.5 00/m	
Light colour	White	43° 800 43°
Required compone		
F15859_HEKLA		$\times \land \land \times$
		1230
		- 30° - 35°
TRIDOM		90* 90*
LED	SLE G7 LES15	
FWHM / FWTM	34.0° / 84.0°	73*
Efficiency	80 %	
Peak intensity	00 % 1.2 cd/lm	60° 60°
LEDs/each optic	1.2 co/im 1	
LEDS/each optic	1 White	ar 65.
Required compone		
F15859_HEKLA		
		30° <u>12300</u> 30° 30°



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15859_HEKLA	XOB 14.5 mm 34.0° / 80.0° 80 % 1.2 cd/lm 1 White ents:			30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone F15255_HEKL/	XOB 9.8 mm 25.0° / 53.0° 87 % 2.5 cd/lm 1 White ents:		20 <sup>2</sup> 20 <sup>2</sup>	3¢, 5¢,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone C16058_XTM-A	XTM - 19mm LES 36.0° / 108.0° 80 % 0.9 cd/lm 1 White ents:			90 



# PHOTOMETRIC DATA (SIMULATED):

	_	
CITIZEN	J	90* 90*
LED	CLL03x/CLU03x	
FWHM / FWTM	28.0° / 68.0°	78*
Efficiency	82 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr. at
Required component	S:	
F15859_HEKLA-S	OCKET-I	
		3600
		30° 30°
~		123 0 <sup>6</sup> 123
<b>Μ</b> ΝΙCΗΙΛ		90*
LED	СОВ Т-Туре	75
FWHM / FWTM	19.0° / 38.0°	23.
Efficiency	85 %	50° 50°
Peak intensity	5.7 cd/lm	$\Gamma \times / / \wedge \times \Gamma$
LEDs/each optic	1	
Light colour	White	45"
Required component	S:	
F15848_HEKLA-S	OCKET-G	4550
		30* 30*



# PRODUCT DATASHEET FN15970\_RONDA-S-C

#### **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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