

# PRODUCT DATASHEET FN15789\_RONDA-REC-90

# **RONDA-REC-90**

~80°+80° rectangular beam with holder A compatible with 3rd party connectors from TE, Bender+Wirth and IDEAL

## **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 69.9 mm
Height	14.6 mm
Fastening	socket
ROHS compliant	yes 🛈



Colour

clear white Finish

## **MATERIAL SPECIFICATIONS:**

Component
RONDA-REC-90
RONDA-HLD-A

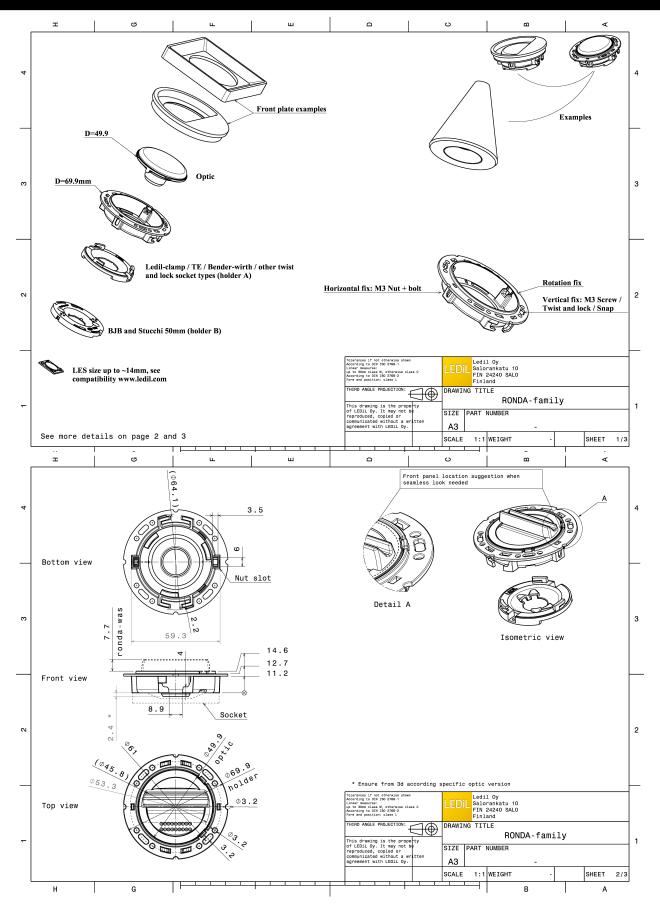
Туре	Material
Single lens	PMMA
Holder	PC

## **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FN15789_RONDA-REC-90	Single lens	420	120	30	0.0
» Box size:					

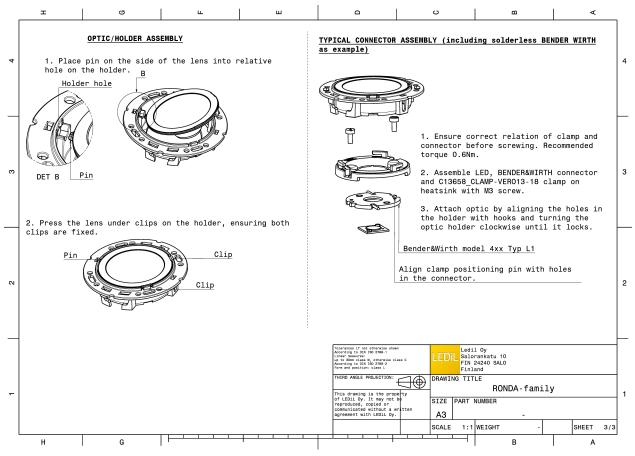
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See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



## **PHOTOMETRIC DATA (MEASURED):**

bridgelux.		90° 90°
LED	V13 Gen7	
FWHM / FWTM	80.0° / 112.0°	73'
Efficiency	87 %	
Peak intensity	0.5 cd/lm	60° - 200
LEDs/each optic	1	
Light colour	White	43*
Required compone		
	2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1	400
		 155 <sup>0</sup> 0 <sup>0</sup> 15 <sup>3</sup>
bridgelux.		90* 90*
LED	Vero SE 13	
FWHM / FWTM	87.0° / 113.0°	
Efficiency	91 %	605
Peak intensity	0.5 cd/lm	200
LEDs/each optic	1	
Light colour	White	43*
Required compone	nts:	
C16402_CLAM	P-VEROSE-13-18	400
		30. 31.
bridgelux.		
LED	VERO13	
FWHM / FWTM	88.0° / 118.0°	78*
Efficiency	91 %	
Peak intensity	0.5 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	45*
Required compone		
C13658_CLAM		
		10 <sup>-</sup> 13 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 30 <sup>6</sup>
bridgelux.		90*
LED	VERO18	75°
FWHM / FWTM	81.0° / 120.0°	
Efficiency	89 %	60°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	43* 43*
1		
Required compone	nts:	
Required compone C13658_CLAM	nts:	
	nts:	
	nts:	34



## **PHOTOMETRIC DATA (MEASURED):**

OIDIZD			
CITIZE	N	and the second se	90° 90°
LED	CLL03x/CLU03x		
FWHM / FWTM	78.0° / 110.0°		
Efficiency	89 %		60°
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		$\parallel$ $\times$ $/$ $/$ $\parallel$ $\times$ $\times$
Light colour	White		57°
Required compone	nts:		400
C16791_CLAMF	P-Z45-A		
TE Connectivity:	2325807-3		
			364 157 669 157 364
			30* 30*
LED	CXA/B 15xx		
FWHM / FWTM	87.0° / 119.0°		73° 200 78°
Efficiency	91 %		
Peak intensity	0.5 cd/lm	and the second se	50* 50*
LEDs/each optic	1	and the second	
Light colour	White	and the second se	45° 65°
Required compone	nts:		
C14123_CLAMF			
Bender Wirth: 43	34 Typ L1		
			30° 500 30°
1			15° 0° 15°
			95° 95°
			90 <sup>4</sup> 30 <sup>5</sup>
	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0°		32     32       30,     30,       30,     30,
LED FWHM / FWTM	CXA/B 1816 & CXA/B 1820 & CXA 1850		22° 0° 25°
LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0°		20 20 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 %		20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm		32 <sup>3</sup> 6 <sup>3</sup> 32 <sup>3</sup> 60 <sup>4</sup> 700     70       67     700     67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White		20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White		200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts:		200 - 200 - 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 89.0° / 115.0° 92 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 89.0° / 115.0° 92 % 0.5 cd/lm 1		1 25 <sup>3</sup> 6 <sup>3</sup> 15 <sup>3</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 9 <sup>4</sup> 20 <sup>3</sup> 6 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup> 6 <sup>4</sup> 3 <sup>5</sup> 20 <sup>4</sup> 6 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 9 <sup>4</sup> 10 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 89.0° / 115.0° 92 % 0.5 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 89.0° / 115.0° 92 % 0.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 89.0° / 115.0° 92 % 0.5 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 1816 & CXA/B 1820 & CXA 1850 84.0° / 115.0° 88 % 0.5 cd/lm 1 White nts: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 CXA/B 1816 & CXA/B 1820 & CXA 1850 89.0° / 115.0° 92 % 0.5 cd/lm 1 White nts:		



## **PHOTOMETRIC DATA (MEASURED):**

OSRAM	1	50 <sup>4</sup>	90*
LED	PrevaLED Core G7 L15 H1		
FWHM / FWTM	67.0° / 103.0°	- 15	75
Efficiency	81 %		$\sim /$
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
C16685_CLAMF			
			$\land$
		365	30°
PHILIF	DS	10° V	32.
LED	Fortimo SLM L13 CoB		
EED FWHM / FWTM	82.0° / 113.0°	73	75*
Efficiency	86 %		$\mathbf{V}$
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		
Light colour	' White		45*
Required compone			
	: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1		
		30°	12.
PHILIP	<b>DS</b>	30,	90*
		5x*	90°
LED	Fortimo SLM L15 + SLM holder 77.0° / 111.0°	99 <sup>4</sup>	
LED FWHM / FWTM	Fortimo SLM L15 + SLM holder	301	30,
LED FWHM / FWTM Efficiency	Fortimo SLM L15 + SLM holder 77.0° / 111.0°	55 <sup>4</sup> 77 70 70 70 70	90* - 75*
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 %	55 <sup>4</sup> 79 70 70	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm	55° 50° 50°	6°
LED FWHM / FWTM Efficiency Peak intensity	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White	50° - 200 57° - 200	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White		99 <sup>5</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents:	99 <sup>4</sup> 75 75 75 75 75 75 75 75 75 75 75 75 75	99 <sup>7</sup> 60 <sup>4</sup> 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents:		997 72 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents:	25% d <sup>2</sup>	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents:		997 997 997 997 997 997 997 997 997 997
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents:	25% d <sup>2</sup>	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: : OPTIC CLIP Z50 TYPE1 2213194-1	25% d <sup>2</sup>	25. 25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: : OPTIC CLIP Z50 TYPE1 2213194-1	25% d <sup>2</sup>	12° - 25° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity:	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: : OPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0°	25% d <sup>2</sup>	997 12° 12° 12° 12° 12° 12° 12° 12°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0° 87 %	25% d <sup>2</sup>	99 99 99 99 99 99 99 99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: stous semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0° 87 % 0.5 cd/lm 1 White	25% d <sup>2</sup>	10° - 10° -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0° 87 % 0.5 cd/lm 1 White	25% d <sup>2</sup>	99 99 99 99 99 99 99 99 99 99
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: stous SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0° 87 % 0.5 cd/lm 1 White	25% d <sup>2</sup>	997 997 997 997 997 997 997 997 997 997
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: stout stemconoucros LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0° 87 % 0.5 cd/lm 1 White ents:	25% d <sup>2</sup>	99 <sup>°</sup> 99 <sup>°</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TE Connectivity: seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo SLM L15 + SLM holder 77.0° / 111.0° 86 % 0.6 cd/lm 1 White ents: COPTIC CLIP Z50 TYPE1 2213194-1 MJT COB LES 14.5 78.0° / 112.0° 87 % 0.5 cd/lm 1 White ents:	25% d <sup>2</sup>	997 727 997 997 997 997 997 997 997 997



# PHOTOMETRIC DATA (SIMULATED):

·		
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 477 T		54° 500 6° 500 6° 500 6° 500 100 100 100 100 100 100 100
bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: IDEAL: 50-2103CT -		
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: C14123_CLAMP-CX		



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#### **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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