

VIMALUX

A brighter vision



RAZO™

HIGH EFFICIENCY LED STREET LIGHT

MODERN SUPER SLEEK PROFILE

RAZO™ design and appearance is first and foremost sleek and contemporary. Paired with its many mechanical features and unique efficiency, RAZO is the defining design for current and future urban- and cityscapes.



OPTIMIZED FOR EASY MAINTENANCE

RAZO™ offers tool-free and immediate access to all internal active parts of the luminaire. The unique gear access system makes upgrades and site repair a feasible option. The hinge system makes it possible to replace both service electronics, as well as LEDs without unmounting the light.

Top part carries both the LED module and the Electronic gear tray. It can be opened without a tool and extracted for operation of maintenance or it can be replaced with a new one directly without re-wiring by keeping the bottom part installed.



Electrical connection CLASS II : Neutral /Phase are connected to safety switch; for Class I earth wire to be connected on earth stud in housing. DALI 2 incoming wiring is connected to a separate termination block.

Gear with TCI/OSRAM DALI 2 programmable driver, SPD and EMI as per request.

Level gauge for precise and easy horizontal installation.

SILICON GASKET

Housing is made of very corrosion-resistant die-cast aluminum. Polyester powder-coated painting after chemical washing treatment.

Mounting with two stainless steel bolts (extra long bolts for small column can be ordered with luminaire).

Spigot made of die-cast aluminum, standard in same color as body. Universal post top / side entry spigot for \varnothing 60mm/76mm/50mm.

Flat toughened glass to prevent upward light. Fixed to the frame with metal clips for easy replaceability. Very high light transmission to optimize the Light Output Ratio.





LUMEN AND EFFICIENCY @4000K

MODEL	LED QTY	LED CURRENT SETTING mA	SYSTEM POWER SETTING** W	LUMEN*			Efficiency (4000K) LM/Watt
				4000K	3000K	2700K	
RAZO-S-12	12	300	13	1300	1232	1109	110
		400	16	1900	1801	1621	118
		500	21	2600	2534	2281	123
'RAZO-S-20	20	250	17	2125	2015	1813	125
		350	23	3190	3084	2776	145
		600	38	5200	4930	4437	137
		650	40	5400	5119	4658	134
RAZO-M-40	40	400	50	7166	6983	6355	150
		500	62	8888	8426	7667	147
		600	72	10500	9312	8420	145
RAZO-M-60	60	450	82	12206	11571	10530	141
		500	94	13690	12978	11810	142
		600	109	15511	14400	13104	143
		650	115	15982	14949	13784	143
RAZO-M-72	72	550	120	16200	15358	13975	135
		650	143	18478	17531	15953	129

*Lumen result will vary up to +/- 5% between lens types used.

* Power tolerance. +/- 3%



LIFETIME AND WARRANTY

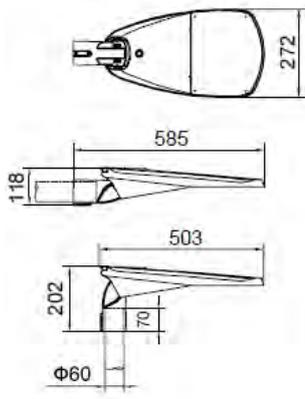
CALCULATION	L90@25° B10	L80@50° B10	STANADARD WARRANTY
LLMF	>118.000 hours	>90.000 hours	10 Years
TM-21	>118.000 hours	>90.000 hours	



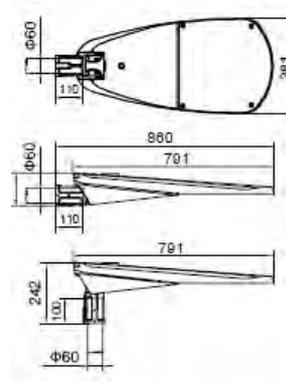
DIMENSIONS AND WEIGHT

MODEL	LENGTH mm	HEIGHT mm	WIDTH mm	WEIGHT Kg
RAZO-S	603	131	300	5.7
RAZO-M	880	242	381	8.9

RAZO-



S



RAZO-M



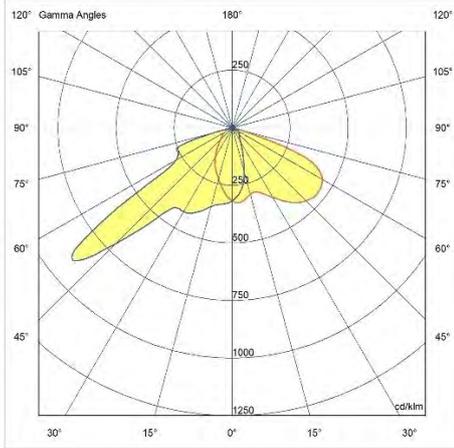
LIGHT DISTRIBUTION – PHOTOMETRIC LENSES

Pedestrian Crossing

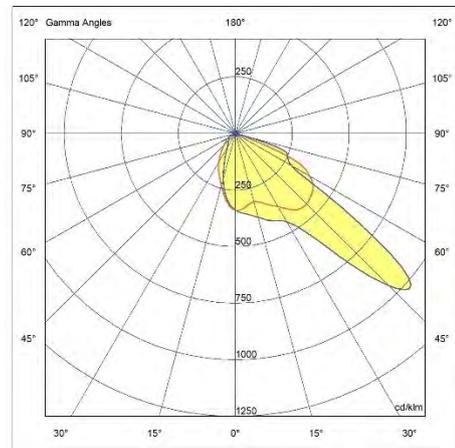
TPL

TPR

350mm x 295mm
 90°
 180° 270°
 C Halfplanes
 180.0 0.0
 270.0 90.0
 Flux 3396 lm
 Maximum 1014.48 cd/klm
 Position C=280.00 G=50.00
 Efficiency: 100.00%
 Date: 12 05 2021
 Asymmetrical



350mm x 350mm
 90°
 180° 270°
 C Halfplanes
 180.0 0.0
 270.0 90.0
 Flux 4162 lm
 Maximum 1045.91 cd/klm
 Position C=85.00 G=48.00
 Efficiency: 100.00%
 Date: 28-04-1984
 Asymmetrical

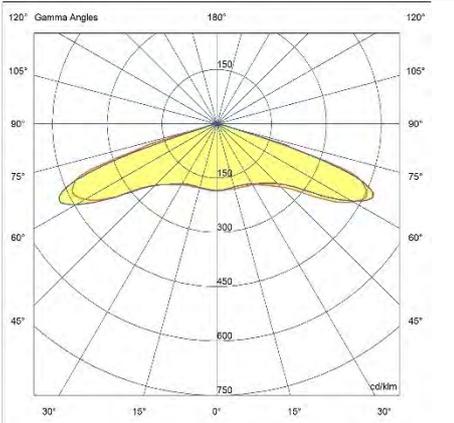


Doble symmetric (wire installation)

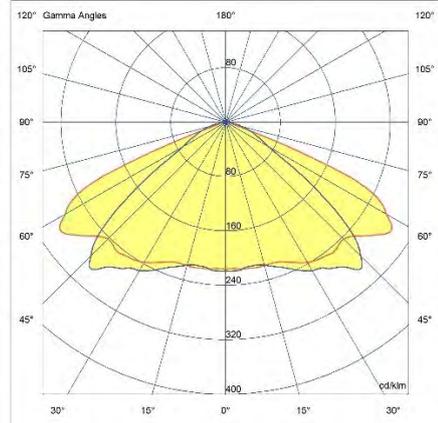
WL5

WTEW

1mm x 1mm
 90°
 180° 270°
 C Halfplanes
 180.0 0.0
 270.0 90.0
 Flux 10734.00 lm
 Maximum 632.50 cd/klm
 Position C=10.00 G=65.00
 Efficiency: 147.49%
 Date: 29 04 2019
 Asymmetrical



Diam=440mm
 90°
 180° 270°
 C Halfplanes
 180.0 0.0
 270.0 90.0
 Flux 7215 lm
 Maximum 506.54 cd/klm
 Position C=35.00 G=62.00
 Efficiency: 100.00%
 Date: 02-02-2021
 Asymmetrical

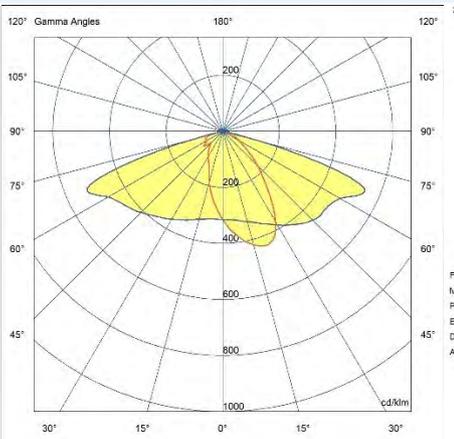


Road Lighting – High Dry Uniformity EU standard

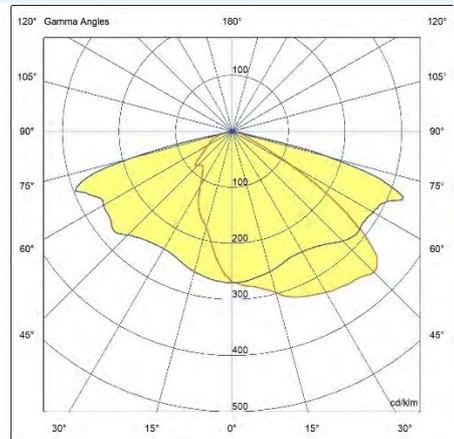
L2

L3

375mm x 290mm
 90°
 180° 270°
 C Halfplanes
 180.0 0.0
 270.0 90.0
 Flux 2634 lm
 Maximum 623.18 cd/klm
 Position C=280.00 G=66.00
 Efficiency: 100.00%
 Date: 13-08-2019
 Asymmetrical



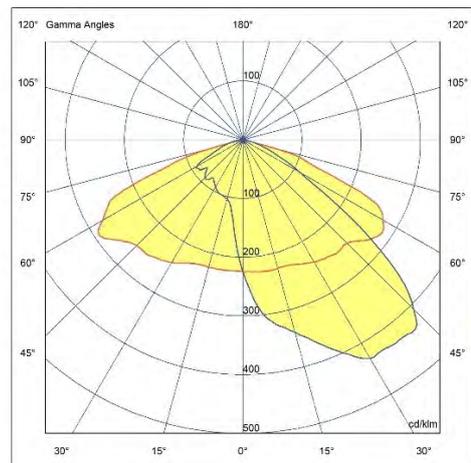
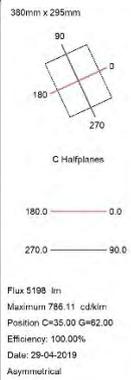
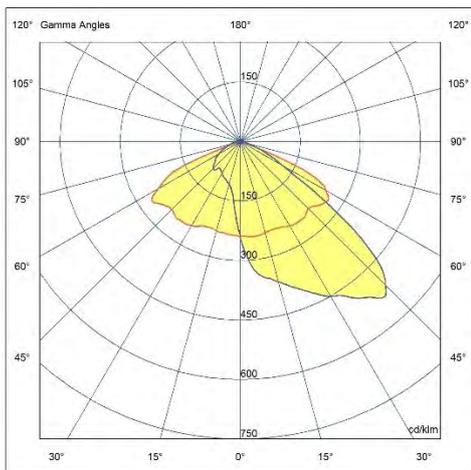
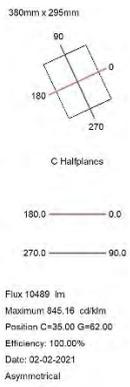
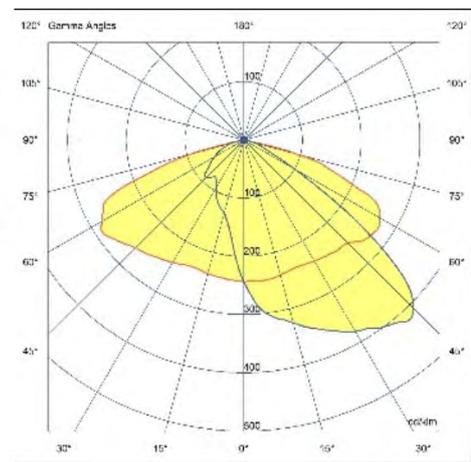
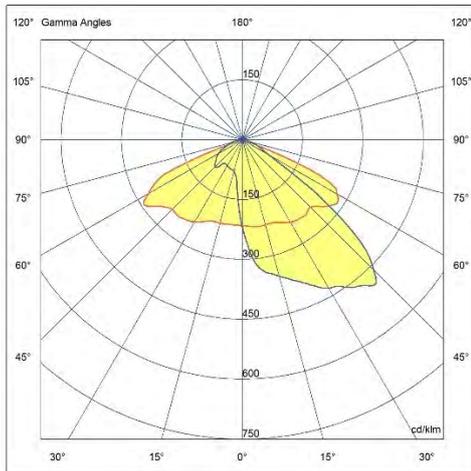
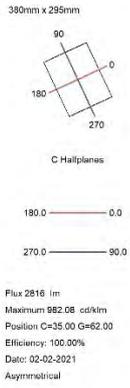
200mm x 200mm
 90°
 180° 270°
 C Halfplane
 180.0 0.0
 270.0 90.0
 Flux 3288 lm
 Maximum 554.15 cd/klm
 Position C=70.00 G=70.00
 Efficiency: 100.00%
 Date: 29 04 2019
 Asymmetrical



Optics for wet condition - Denmark

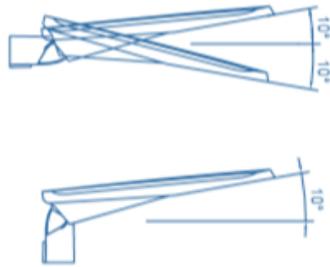
TEW
TEWK4

L3TEW
L4TEW



TILT SETTINGS

RAZO-S/M
-10° - +10°

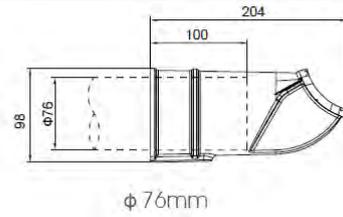
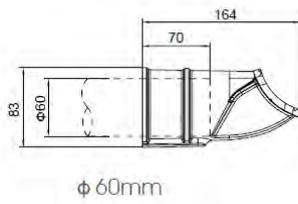
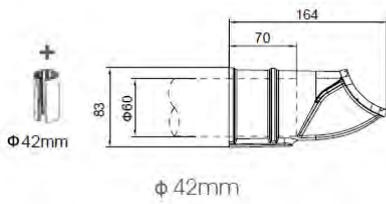


SPIGOT SIZES and ADAPTERS

Ø27-42mm Adapter

Ø42-Ø60mm Standard

Ø60-Ø72mm Adapter





GENERAL SPECIFICATIONS FOR ALL RAZO VERSIONS

FREQUENCY (Hz)	50/60
POWER FACTOR (COS)	>90
VOLTAGE	AC 100-270 V
DRIVER CONTROL INTERFACE	DALI2, D4i, CLO
COLOR	DARK GREY (RAL 7026), LIGHT GRAY (RAL 9006)
BODY PARTS MATERIAL	Alu Alloy: LM6 (Die Cast)
ISOLATION CLASS	CLASS I / CLASS II
SURGE PROTECTION	Max Surge Current: 20kA 8/20us; Max Open Circuit Voltage 10 kV
INGRESS PROTECTION	IP66
WIND LOAD FACTOR	S 0.048 / M 0.058
IMPACT PROTECTION	IK09
OPERATING TEMPERATURE	-20°C / +50°C

CERTIFICATIONS/TEST REPORTS

AS/NZS	IEC (CB) LVD	CE LVD	CE EMC
AS/NZS 1158.6:2015 AS/NZS 60958.1:2013 AS/NZS 60958.2.3:2015 AT Approved M30 listed	IEC 60958-1:2014 IEC EN60958-2-3:2002 IEC 60958-2-3:2002/AMD1:2011 IEC 62471:2006 IEC 62493:2015 IEC LM-80-08	EN 60958-1:2015 EN 60958-2-3:2003/A1:2011 EN 62471:2008 EN 62493:2015	EN 55015:2013/A1:2015 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Lighting Tests	Salt Spray Test	Vibration Test	EU RoHS
IESNA LM-79-2008	>1000 hrs ISO 9227	IEC60068-2-6:2007	EN 62321:2009

ORDER CODE – LUMINAIRE CONFIGURATION

ORDER CODE POSITION	CODE TYPE	OPTIONS	WHAT IS THIS?
1	Product Family	RAZO-S RAZO-M	Name of Product Family
2	LED Qty	Look up in Data Sheet Lumen Table	Choose your LED Qty for desired wattage and lumen area
3	LED Current Setting	Look up in Data Sheet Lumen Table	Choose your LED Current Setting and corresponding System Power for exact wattage and lumen required. The driver will then be pre-programmed to this specific setting during production or installation
4	CRI + CCT	730 740 827	Colour Rendering Index (Ra) = 70 Choose Colour Temperature: 30= 3000K 40=4000K 27=2700K
5	Body Colour	DG LG C	DG=Dark Grey (RAL XXX) LG= Light Grey (RAL XXX) C = Custom Colour (Specify in Order Text)
6	Lens Type	L1, L2, L3, L4 TEW...	Choose Lens Type for desired lighting distribution according to your Lighting Design Requirements
7	Mounting Type	SM TM PM SU PE	SM=Side Mounted TM=Top Mounted PM=Park Mounted WS=Wire Suspended PE=Pendant Mounted
8	External Control Connector	N ZU ZD ZUD	N =NEMA ZU =ZHAGA – facing UP ZD = ZHAGA – facing DOWN ZUD = ZHAGA – 2 pcs. facing UP and DOWN

1	2	3	4	5	6	7	8
RAZO-M	42	350	740	LG	L9	SM	N

RAZO-M-42-350-740-LG-L9-SM-N

**RAZO Street Light**

Top/Side Mounted Street Light with Programmable Driver for **20 LEDs** in **4000K** Colour Temperature set at **350 mA**. Equipped with **L9** optical lenses. **Light Grey** Die-Cast Alu Body. Fitted with **NEMA 7-PIN** for external control device.



admin@vimalux.com



Australia: +61 403985805
New Zealand: +64 022 365 6727
MENA: +966 55 8588724
Denmark: +45 40111901
Italy: +39 345 460 5437



www.vimalux.com



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IMPORTANT!

Due to continuous technological innovation, changes in external conditions, and availability of parts and services, the products and specifications displayed in this data sheet are subject to change. Please ask your Felicity Smart Infrastructure representative for full up-to-date technical details.