

# THREELINE

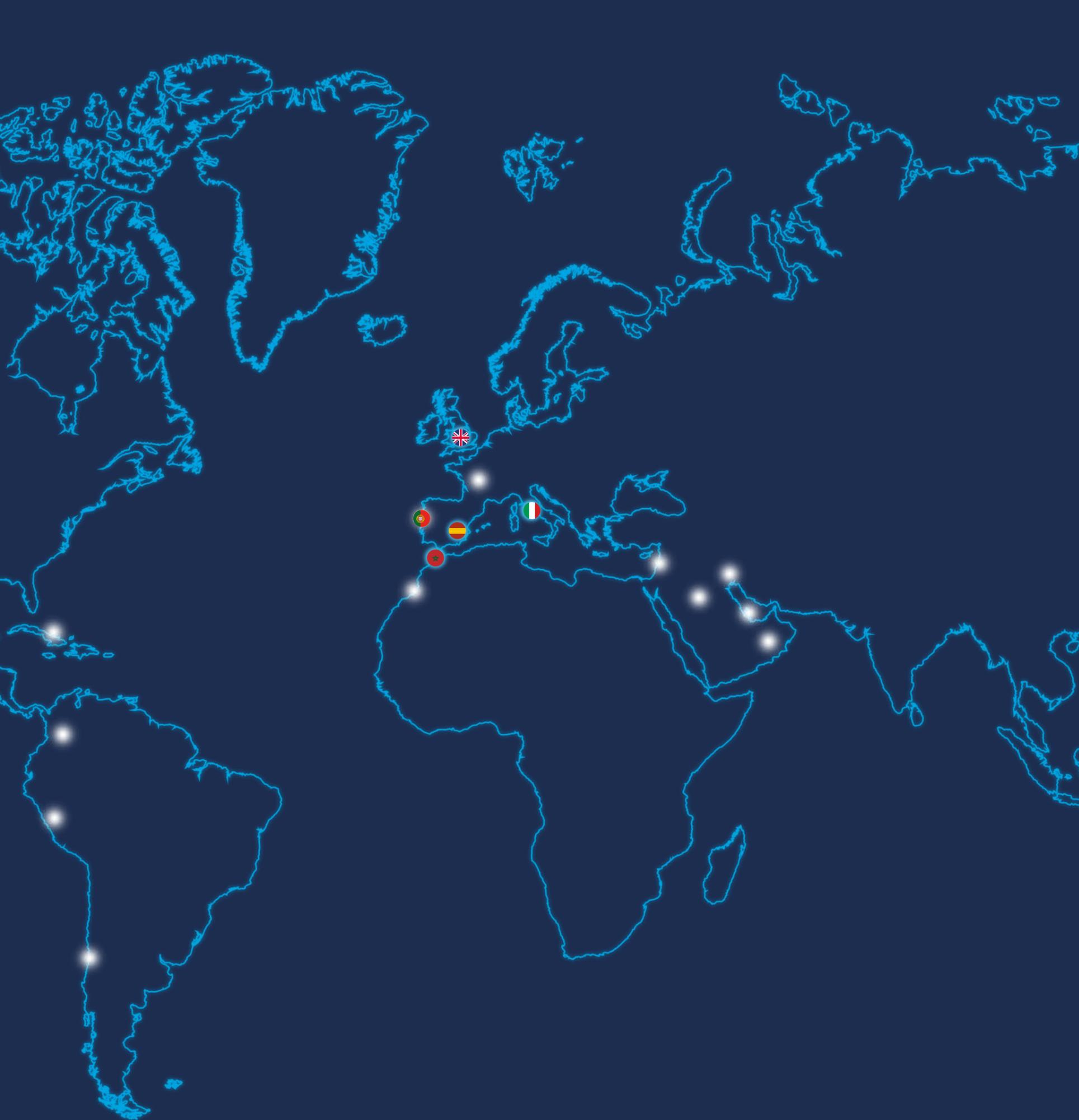


## RUA

**PROFESSIONAL STREET LIGHTING**



Check out the  
RUA line video



#### A SPANISH COMPANY SPECIALISED IN LED LIGHTING

Founded in 2006 in Spain as a lighting electronics company, **Threeline Technology** developed its own transformer.

The success of this product has led us to offer comprehensive lighting solutions to our customers. Our factory, logistics centre and headquarters are based in Almansa, province of Albacete (Spain). From here we distribute our products anywhere in the world.

In 2015 we set up our headquarters in Italy, where we design many of our luminaires.

#### BRINGING LIGHT TO MORE THAN 10,000 PROJECTS

We have more than 10 years' experience and have brought light to more than 10,000 projects. Nowadays we are considered a benchmark in the LED lighting market, with an average increase in turnover of 20% in recent years.

# RUA

Threeline presents its new product range specially designed for street lighting in towns and cities: the **RUA** line.

 RUA is a street light line made in Spain that offers a wide range of lighting solutions capable of meeting current market needs with an efficiency of 130 lm/W.

The Nichia LED implemented ensures maximum reliability and excellent lighting levels.

The RUA line is made up of three models in different sizes: S, M and L with different powers, thus adapting to every need and providing ideal efficiency and sustainability for street lighting.

Its innovative design and smooth finish give the luminaire a perfect cleaning system to prevent the accumulation of debris on the surface of the casing. In addition, for easy maintenance, it is

equipped with a manual opening system of the highest quality that does not require any tools to be opened.

Threeline offers different dimming systems for greater adaptability to different installations, all in compliance with technical requirements for LED technology luminaires for outdoor lighting.

Each of our RUA luminaires is made of the highest quality materials. Made from cast aluminium and finished in silver for greater homogeneity in the environment.



### PMMA lens

For optimum adaptation to different settings, there are several types of PMMA light distributions with a transmittance of 93%.

### Led

High efficiency (160 lm/W) Nichia 3030 LED, which provides high levels of illumination.



### Sealing gasket

High degree of ingress protection to IP66 thanks to a neoprene gasket.

### Electrical safety switch

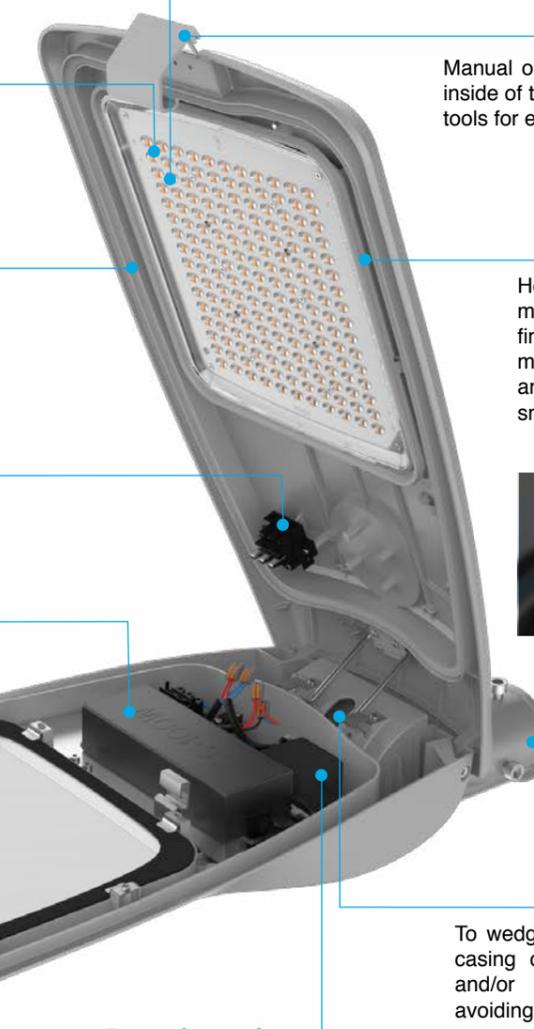
The electrical circuit is automatically and immediately disconnected when the luminaire is opened.

### Power supply

Different power supply options for different dimming needs according to specific requirements of each project.

### Closure

IK08 flat tempered glass that protects materials and equipment inside. It also prevents yellowing and aging of lenses.



### Opening system

Manual opening to access to the inside of the luminaire without any tools for easier maintenance.

### Heat sink

Heat management by means of an advanced finned system built into the mould to improve cooling and maintain the exterior smooth finish.



### Mounting system

Assembly with lateral or vertical mounting.

### Opening clamp

To wedge the upper part of the casing open during installation and/or maintenance work, avoiding unintentional closing.

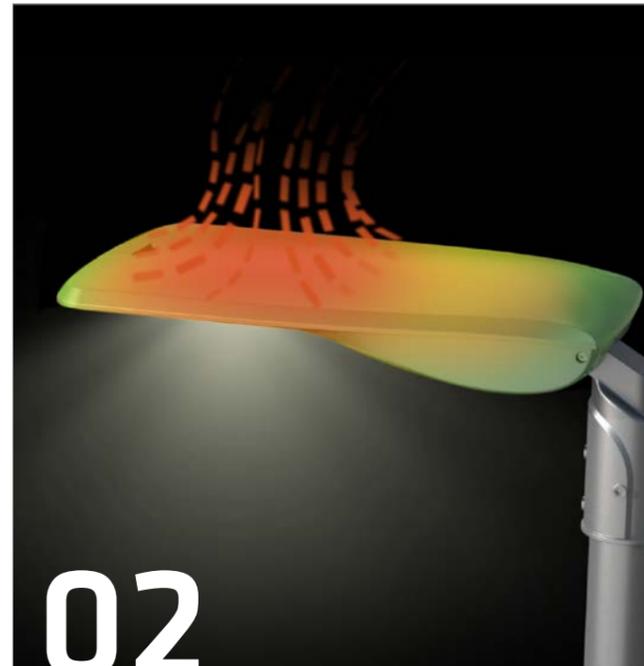
### Protection against overvoltage

It includes an overvoltage protection device up to 10 kV/10 kA.



**PROTECTION AGAINST OVERVOLTAGE**

It includes an overvoltage protection device up to 10 KV/10 KA.



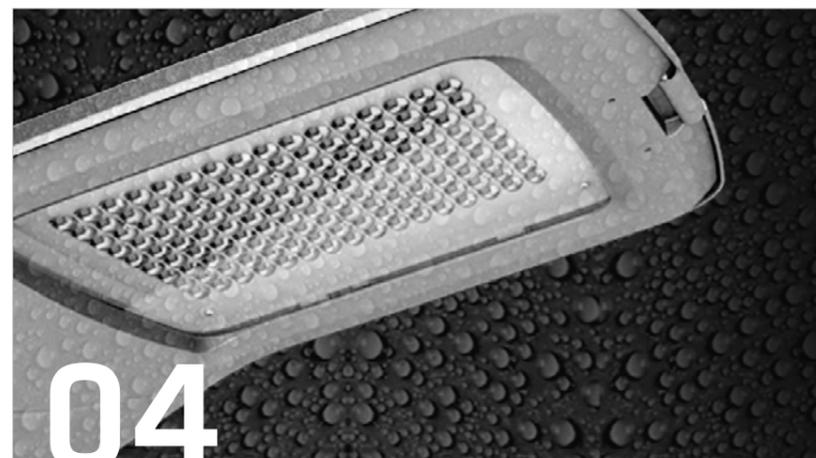
**THERMOGRAPHY**

Heat is managed by an internal finned heat sink connected to the smooth surface outer casing to accelerate airflow, thus improving heat dissipation. This reduces the temperature and significantly increases the lifespan of components.



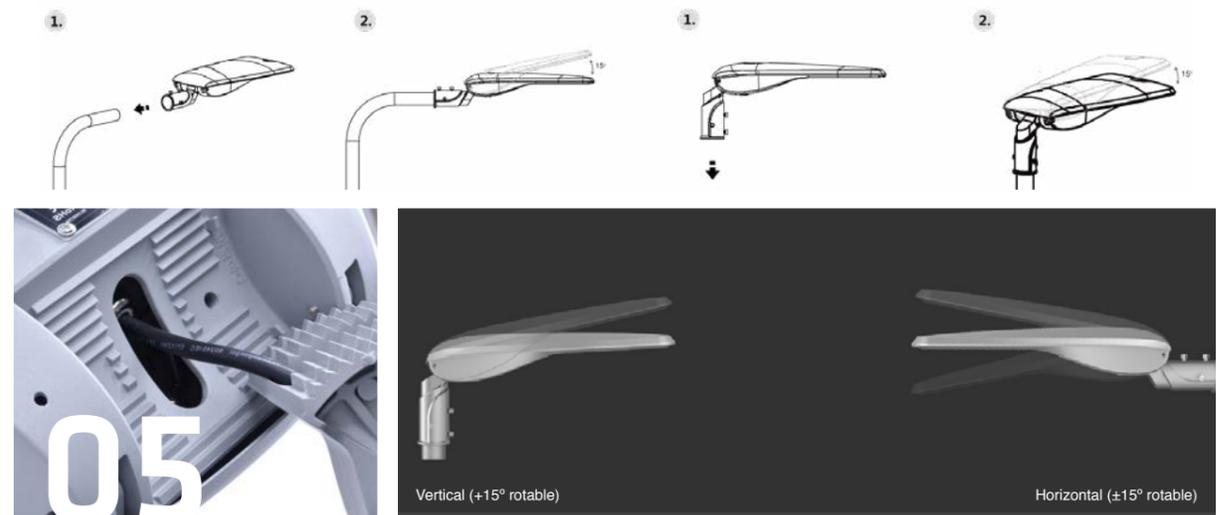
**SMOOTH SURFACE**

The smooth casing design reduces the build-up of debris, dust and water, and minimises weather damage.



**IP66**

Watertight design, with high quality waterproof neoprene gaskets to ensure IP66 rating.



**TILT OPTIONS**

Head tilt angle can be adjusted with respect to their initial position: 15 degrees up and 15 degrees down. Tilt options -15°, -10°, -5°, 0°, 5°, 10°, 15°.



**MOUNTING SYSTEM**

A wide range of adapters is available to fit the head to different post and arm diameters. A special device is also available for direct wall mounting. By default, the luminaire comes with the 60 mm mounting system (ref. ACV60).



**ILLUMINANCE SENSOR**

An integrated sensor option on the top of the casing is available: automatic switch on from 6 lx and off in excess of 50 Lx.

# THE RUA LINE



**S**

RUA S is ideal for residential spaces, parks and parking areas. The smallest luminaire in the line, with power ranging from 20 to 50 W.

**M**

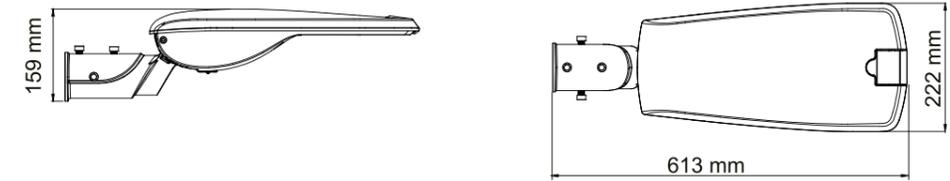
Ideal for urban areas, walkways and narrow roads. The power of RUA M, the intermediate model in terms of size, ranges from 50 to 90 W.

**L**

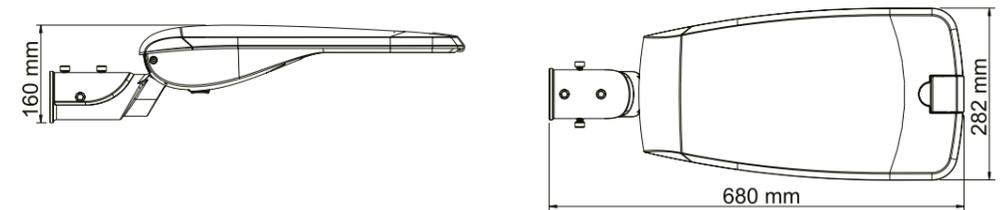
RUA L, the largest and most powerful model, is ideal for wide streets, motorways, avenues... With power between 100 and 150 W, it offers high visibility and luminosity in the most demanding situations.



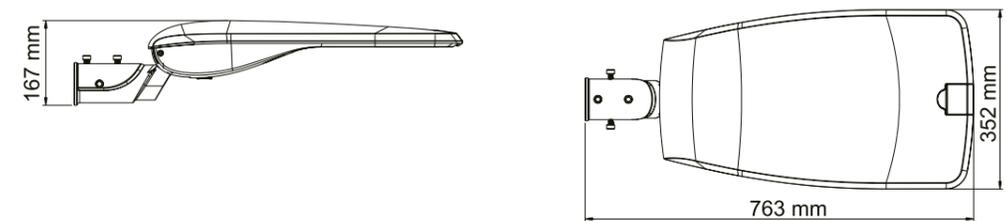
**S**



**M**



**L**



# RUA "S" TECHNICAL DATA SHEET



	POWER	LED	LUMENS	(mA) LAMP CURRENT	CRI	LENS	DIMMING	PROTECTION	ORDER CODE	REFERENCE
<b>5000K</b>	20W	48 LED	2751	350	>70	*	**	10KV	CVS001.***	CV20.S.48LED7.10KV.5000K.***
	30W	48 LED	4095	550	>70	*	**	10KV	CVS004.***	CV30.S.48LED7.10KV.5000K.***
	40W	48 LED	5418	700	>70	*	**	10KV	CVS007.***	CV40.S.48LED7.10KV.5000K.***
	50W	48 LED	6731	900	>70	*	**	10KV	CVS010.***	CV50.S.48LED7.10KV.5000K.***
<b>4000K</b>	20W	48 LED	2620	350	>70	*	**	10KV	CVS002.***	CV20.S.48LED7.10KV.4000K.***
	30W	48 LED	3900	550	>70	*	**	10KV	CVS005.***	CV30.S.48LED7.10KV.4000K.***
	40W	48 LED	5160	700	>70	*	**	10KV	CVS008.***	CV40.S.48LED7.10KV.4000K.***
	50W	48 LED	6410	900	>70	*	**	10KV	CVS011.***	CV50.S.48LED7.10KV.4000K.***
<b>2700K</b>	20W	48 LED	2410	350	>70	*	**	10KV	CVS003.***	CV20.S.48LED7.10KV.2700K.***
	30W	48 LED	3588	550	>70	*	**	10KV	CVS006.***	CV30.S.48LED7.10KV.2700K.***
	40W	48 LED	4747	700	>70	*	**	10KV	CVS009.***	CV40.S.48LED7.10KV.2700K.***
	50W	48 LED	5897	900	>70	*	**	10KV	CVS012.***	CV50.S.48LED7.10KV.2700K.***

## LENS OPTIONS:

*	<b>A1</b>	Asymmetric 60x150
	<b>A2</b>	Asymmetric 50x150

## DIMMING OPTIONS:

	<b>SR</b>	Non-dimmable
	<b>DN2-</b>	Dual level without control cable
	<b>DN2+</b>	Dual level with control cable
**	<b>D110</b>	1-10V
	<b>DA</b>	Dali
	<b>DPR</b>	Programmable
	<b>DRC</b>	Dimming on head

## ELECTRICAL DATA

	CV20	CV30	CV40	CV50
Input	220 ~ 240Vac			
Frequency	50/60Hz			
Lamp Current	350mA	550mA	700mA	900mA
Wattage	20W	30W	40W	50W
LED	3030 Nichia			
LED qt.	48 led			
Energy class	Class II			
Overvoltage protection	10KV/10KA			
Operating temp.	-20°C / +50°C			

## PHOTOMETRIC DATA

	CV20	CV30	CV40	CV50
CCT	2700K/4000K/5000K			
Actual luminous flux (4000K)	2620	3900	5160	6410
Nominal luminous flux	3200	4800	6400	8000
CRI	>70*			
Switching cycles	60.000			
Lifetime	50,000 hours L80B10			

## MATERIALS AND FINISHES

Body	Cast aluminium
Diffuser	Tempered glass
Lens	PMMA
Closure	Stainless steel
Sealing gasket	Neoprene
Support	Cast aluminium
Finish	Silver: RAL 9006

## FEATURES

IP rating	66
IK rating	08
Luminous flux upwards	0%

## CERTIFICATES / APPROVALS



\* CRI>80 to order

# RUA "M" TECHNICAL DATA SHEET



	POWER	LED	LUMENS	(mA) LAMP CURRENT	CRI	LENS	DIMMING	PROTECTION	ORDER CODE	REFERENCE
<b>5000K</b>	50W	50 LED	6878	500	>70	*	**	10KV	CVM001.*.**	CV50.M.90LED7.10KV.5000K.*.**
	60W	90 LED	8253	600	>70	*	**	10KV	CVM004.*.**	CV60.M.90LED7.10KV.5000K.*.**
	70W	90 LED	9555	700	>70	*	**	10KV	CVM007.*.**	CV70.M.90LED7.10KV.5000K.*.**
	80W	90 LED	10836	800	>70	*	**	10KV	CVM010.*.**	CV80.M.90LED7.10KV.5000K.*.**
	90W	90 LED	12096	850	>70	*	**	10KV	CVM013.*.**	CV90.M.90LED7.10KV.5000K.*.**
<b>4000K</b>	50 W	50 LED	6550	500	>70	*	**	10KV	CVM002.*.**	CV50.M.90LED7.10KV.4000K.*.**
	60W	90 LED	7860	600	>70	*	**	10KV	CVM005.*.**	CV60.M.90LED7.10KV.4000K.*.**
	70W	90 LED	9100	700	>70	*	**	10KV	CVM008.*.**	CV70.M.90LED7.10KV.4000K.*.**
	80W	90 LED	10320	800	>70	*	**	10KV	CVM011.*.**	CV80.M.90LED7.10KV.4000K.*.**
	90W	90 LED	11520	850	>70	*	**	10KV	CVM014.*.**	CV90.M.90LED7.10KV.4000K.*.**
<b>2700K</b>	50W	50 LED	6550	500	>70	*	**	10KV	CVM003.*.**	CV50.M.90LED7.10KV.2700K.*.**
	60W	90 LED	7860	600	>70	*	**	10KV	CVM009.*.**	CV60.M.90LED7.10KV.2700K.*.**
	70W	90 LED	9100	700	>70	*	**	10KV	CVM003.*.**	CV70.M.90LED7.10KV.2700K.*.**
	80W	90 LED	10320	800	>70	*	**	10KV	CVM012.*.**	CV80.M.90LED7.10KV.2700K.*.**
	90W	90 LED	11520	850	>70	*	**	10KV	CVM015.*.**	CV90.M.90LED7.10KV.2700K.*.**

## LENS OPTIONS:

	LENS
<b>A1</b>	Asymmetric 60x150
<b>A2</b>	Asymmetric 50x150
<b>A3</b>	Asymmetric 45x150
<b>A4</b>	Asymmetric 75x150

## DIMMING OPTIONS:

	DIMMING
<b>SR</b>	Non-dimmable
<b>DN2-</b>	Dual level without control cable
<b>DN2+</b>	Dual level with control cable
<b>** D110</b>	1-10V
<b>DA</b>	Dali
<b>DPR</b>	Programmable
<b>DRC</b>	Dimming on head

## ELECTRICAL DATA

	CV50	CV60	CV70	CV80	CV90
Input	220 ~ 240Vac				
Frequency	50/60Hz				
Lamp Current	500mA	600mA	700mA	800mA	850mA
Wattage	50W	60W	70W	80W	90W
LED	3030 Nichia				
LED qt.	90 led				
Energy class	Class II				
Overvoltage protection	10KV/10KA				
Operating temp.	-20°C / +50°C				

## PHOTOMETRIC DATA

	CV50	CV60	CV70	CV80	CV90
CCT	2700K/4000K/5000K				
Actual luminous flux (4000K)	6550	7860	9100	10320	11520
Nominal luminous flux	8000	9600	11200	12800	14400
CRI	>70*				
Switching cycles	60.000				
Lifetime	50,000 hours L80B10				

## MATERIALS AND FINISHES

Body	Cast aluminium
Diffuser	Tempered glass
Lens	PMMA
Closure	Stainless steel
Sealing gasket	Neoprene
Support	Cast aluminium
Finish	Silver: RAL 9006

## FEATURES

IP rating	66
Grado IK	08
Luminous flux upwards	0%

## CERTIFICATES / APPROVALS



\* CRI>80 to order

# RUA "L" TECHNICAL DATA SHEET



	POWER	LED	LUMENS	(mA) LAMP CURRENT	CRI	LENS	DIMMING	PROTECTION	ORDER CODE	REFERENCE
5000K	100W	144 LED	12445	850	>70	*	**	10KV	CVL001.**	CV100.L.144LED7.10KV.5000K.**
	120W	144 LED	14820	1050	>70	*	**	10KV	CVL004.**	CV120.L.144LED7.10KV.5000K.**
	150W	176 LED	18383	1050	>70	*	**	10KV	CVL007.**	CV150.L.176LED7.10KV.5000K.**
4000K	100W	144 LED	13100	850	>70	*	**	10KV	CVL002.**	CV100.L.144LED7.10KV.4000K.**
	120W	144 LED	15600	1050	>70	*	**	10KV	CVL005.**	CV120.L.144LED7.10KV.4000K.**
	150W	176 LED	19350	1050	>70	*	**	10KV	CVL008.**	CV150.L.176LED7.10KV.4000K.**
2700K	100W	144 LED	12052	850	>70	*	**	10KV	CVL003.**	CV100.L.144LED7.10KV.2700K.**
	120W	144 LED	14352	1050	>70	*	**	10KV	CVL006.**	CV120.L.144LED7.10KV.2700K.**
	150W	176 LED	17802	1050	>70	*	**	10KV	CVL009.**	CV150.L.176LED7.10KV.2700K.**

## LENS OPTIONS:

A2	Asymmetric 50x150
A3	Asymmetric 45x150
* A4	Asymmetric 75x150
A5	Asymmetric 55x145
S1	Asymmetric 140

## DIMMING OPTIONS:

SR	Non-dimmable
DN2-	Dual level without control cable
DN2+	Dual level with control cable
** D110	1-10V
DA	Dali
DPR	Programmable
DRC	Dimming on head

## ELECTRICAL DATA

	CV100	CV120	CV150
Input	220 ~ 240Vac		
Frequency	50/60Hz		
Lamp Current	850mA	1050mA	1050mA
Wattage	100W	120W	150W
LED	3030 Nichia		
LED qt.	144 led	176 led	
Energy class	Class II		
Overvoltage protection	10KV/10KA		
Operating temp.	-20°C / +50°C		

## PHOTOMETRIC DATA

	CV100	CV120	CV150
CCT	2700K/4000K/5000K		
Actual luminous flux (4000K)	13100	15600	19350
Nominal luminous flux	16000	19200	2400
CRI	>70*		
Switching cycles	60.000		
Lifetime	50.000 hours L80B10		

## MATERIALS AND FINISHES

Body	Cast aluminium
Diffuser	Tempered glass
Lens	PMMA
Closure	Stainless steel
Sealing gasket	Neoprene
Support	Cast aluminium
Finish	Silver: RAL 9006

## FEATURES

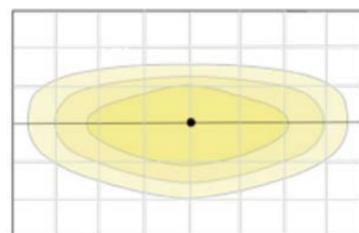
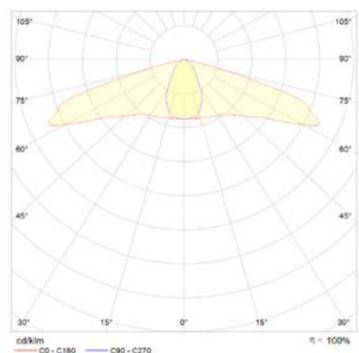
IP rating	66
IK rating	08
Luminous flux upwards	0%

## CERTIFICATES / APPROVALS

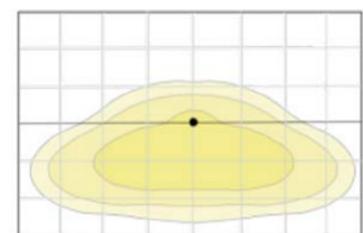
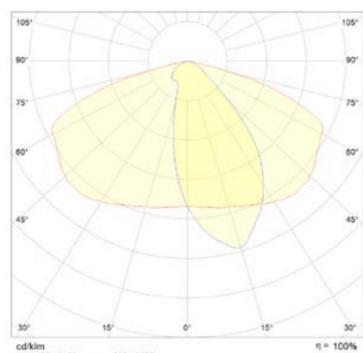


\* CRI>80 to order

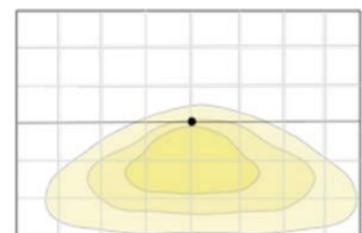
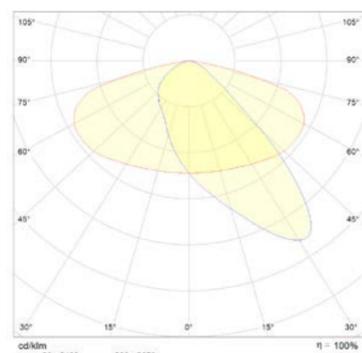
# LENSES



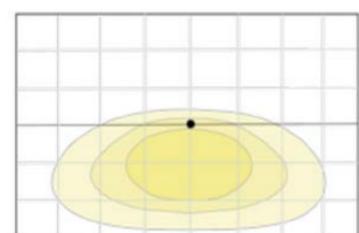
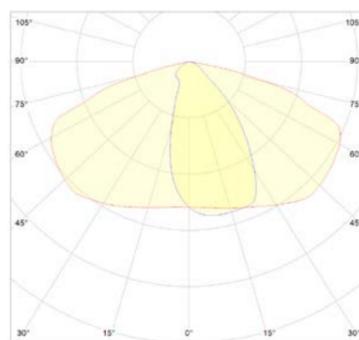
A1 - 60X150°



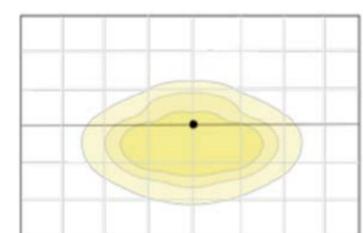
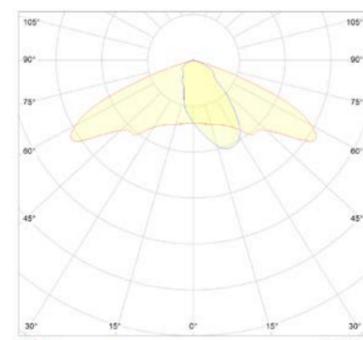
A2 - 50X150°



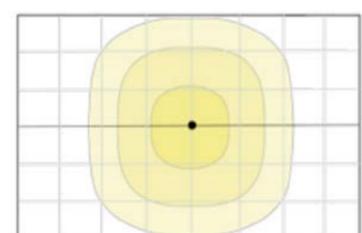
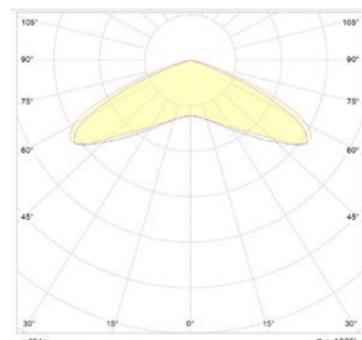
A3 - 45X150°



A4 - 75X150°

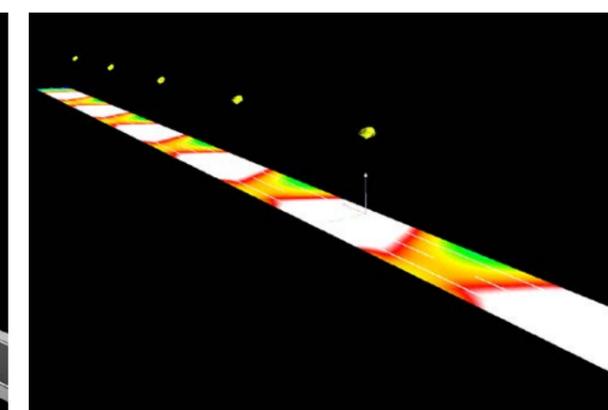
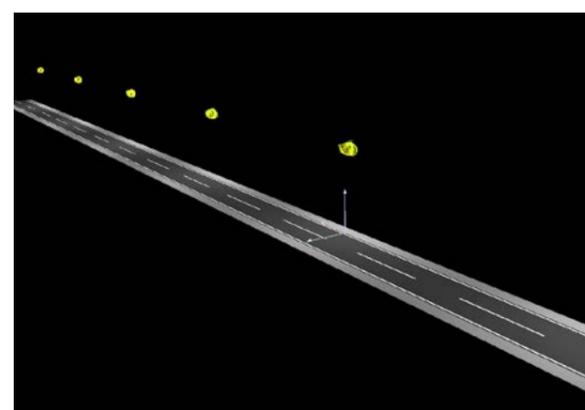
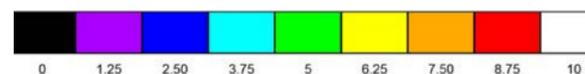
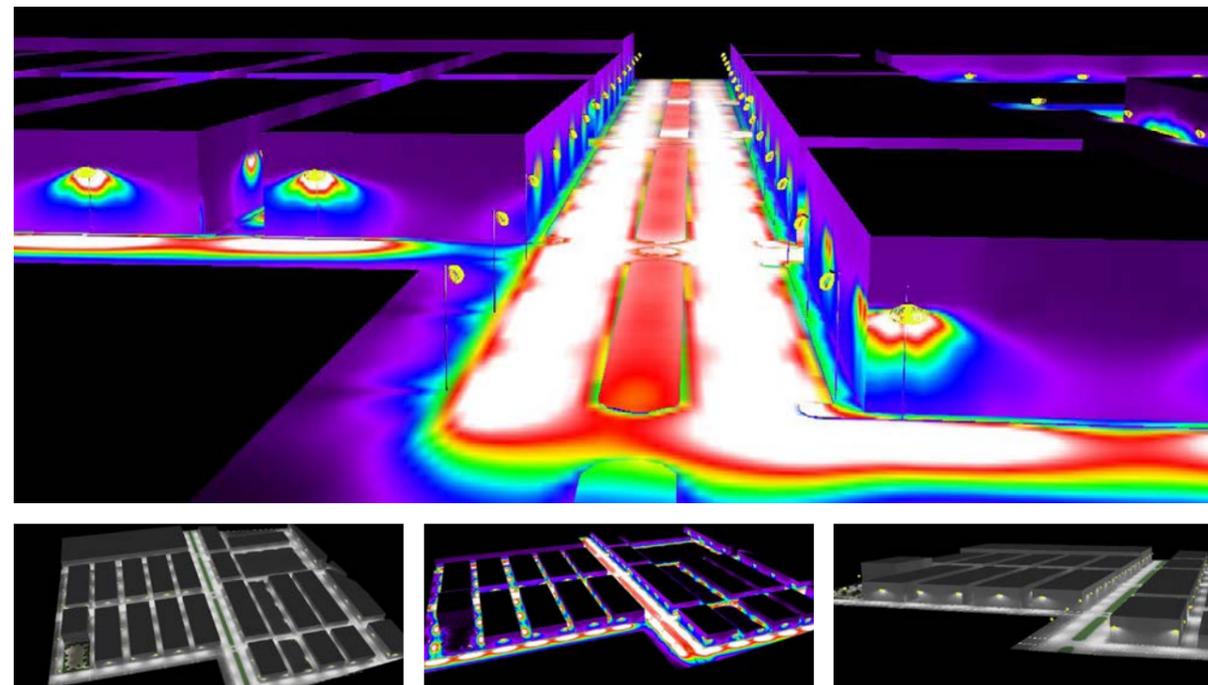


A5 - 55X145°

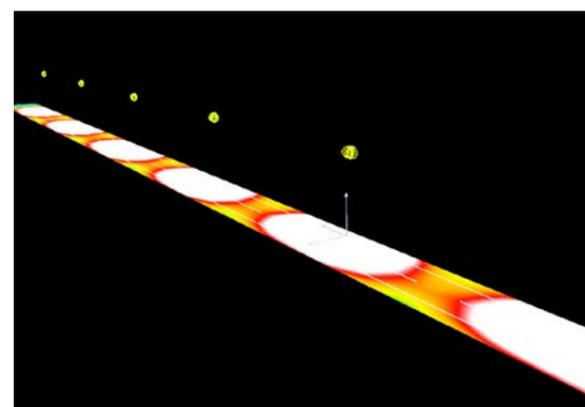


S1 - 140°

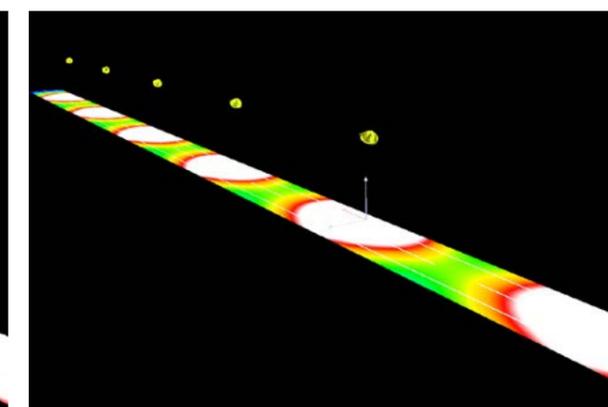
# SPACES



Óptica 45°x150°



Óptica 50°x150°



Óptica 75°x150°



# REFERENCE COMPOSITION

CV	RUA Model	MODEL
	<b>20.</b> 20 W Power <b>30.</b> 30W Power <b>40.</b> 40W Power <b>50.</b> 50W Power <b>60.</b> 60W Power <b>70.</b> 70W Power <b>80.</b> 80W Power <b>90.</b> 90W Power <b>100.</b> 100W Power <b>120.</b> 120W Power <b>150.</b> 150W Power	<b>POWER</b>
	<b>S.</b> Small <b>M.</b> Medium <b>L.</b> Large	<b>SIZE</b>
	<b>48LED7.</b> Lamp unit with 48 CRI>70 Nichia LEDs <b>90LED7.</b> Lamp unit with 90 CRI>70 Nichia LEDs <b>144LED7.</b> Lamp unit with 144 CRI>70 Nichia LEDs <b>176LED7.</b> Lamp unit with 176 CRI>70 Nichia LEDs	<b>LIGHTING UNIT</b>
	<b>10KV.</b> Overvoltage protection 10 kV/10 kA	<b>OVERVOLTAGE PROTECTION</b>
	<b>5000K.</b> Colour temperature of 5000 K <b>4000K.</b> Colour temperature of 4000 K <b>2700K.</b> Colour temperature of 2700 K	<b>COLOUR TEMPERATURE</b>
	<b>A1.</b> Asymmetric 60x150° <b>A2.</b> Asymmetric 50x150° <b>A3.</b> Asymmetric 45x150° <b>A4.</b> Asymmetric 75x150° <b>A5.</b> Asymmetric 55x145° <b>S1.</b> Asymmetric 140°	<b>LENS</b>
	<b>SR.</b> Non-dimmable <b>DN2-.</b> Dual level without control cable <b>D2N+.</b> Dual level with control cable <b>D110.</b> 1-10V <b>DA.</b> Dali <b>DPR.</b> Programmable <b>DRC.</b> Dimming on head	<b>DIMMING</b>

Example settings:

**CV** 30. **S.** **48LED7.** **10KV.** **4000K.** **A3.** **D110.**

# LIGHTING MOMENTS

**THREELINE** 

**HEADQUARTERS**

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