



Lumec RSL roadway security luminaire is the perfect solution when projects require a luminaire that meets specifications without sacrificing performance, all while maximizing operations and maintenance savings. This roadway luminaire features a single IP66-rated LED module, designed to provide crisp, brilliant white light that surpasses existing HID luminaire performance. Optimized for applications such as rural and local roads and residential streets, its overall size, weight, and tool-free feature ensure ease of installation. RSL makes upgrading to reliable, long-lasting, low-maintenance LED lighting a simple cost-effective decision for municipalities, COOP's, and utilities.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: RSLS-40W-740-G1-UNV-DMG-TLRD7-GY3

Series	Wattage	LED Module	Board Generation	Optical System	Ballast	Driver Options	Luminaire Options	Finish
-	-	-	G1	-	UNV	DMG	TLRD7	GY3
RSLS Roadway security luminaire, small	40 40W	740 70CRI 4000K 730 70CRI 3000K	G1 First generation	R3M Type III (ASYM) 5 Type V (SYM)	UNV 120-277VAC	DMG¹ Dimmable driver 0-10V	TLRD7^{1,2} Receptacle for twistlock photocell or shorting cap, 7-pin (standard) UPK-XXX Unit Package (select UPK complete code in table below)	GY3 Grey finish
RSLM Roadway security luminaire, medium	70 70w							

1. Please note these integrated features come standard with RSL luminaire.
2. Use of photoelectric cell or shorting cap is required to ensure proper illumination. Can be ordered separately as accessory.

Unit Package Code (ships complete in a single master carton)

Catalog number	Description
UPK-ARM	fixture with mounting arm
UPK-ARM-PH8	fixture with mounting arm and photoelectric cell
UPK-ARM-PHXL	fixture with mounting arm and extended life photoelectric cell
UPK-ARM-PSL	fixture with mounting arm and prismatic lens
UPK-ARM-PH8-PSL	fixture with mounting arm, photoelectric cell and prismatic lens
UPK-ARM-PHXL-PSL	fixture with mounting arm, extended life photoelectric cell and prismatic lens
UPK-PH8	fixture with photoelectric cell
UPK-PHXL	fixture with extended life photoelectric cell
UPK-PSL	fixture with prismatic lens
UPK-PH8-PSL	fixture with photoelectric cell and prismatic lens
UPK-PHXL-PSL	fixture with extended life photoelectric cell and prismatic lens

Accessories (shipped in separate box)

Catalog number	Description
ACC-PH8	Photoelectric cell (required for illumination, order separately)
ACC-PHXL	Photoelectric cell, extended life (required for illumination, order separately)
ACC-PH9	Shorting cap (required for illumination, order separately)
ACC-RSLS-PSL	Prismatic Lens for RSLS
ACC-RSLM-PSL	Prismatic Lens for RSLM
ACC-RSLS-RSLM-ARM	Mounting arm with hardware.

RSL Security luminaire

Roadway

LED Wattage and lumen values

Ordering Guide	Color temp.	Average system watts ¹ (W)	Wattage label ²	Type R3M			Type 5		
				Delivered lumens ¹	Efficacy LPW	BUG Rating	Delivered lumens ¹	Efficacy LPW	BUG rating
RSLS-40W-740-G1	4000K	40	40	4936	124	B1-U0-G1	4926	125	B2-U0-G1
RSLS-40W-730-G1	3000K	40	40	4678	119	B1-U0-G1	4682	119	B2-U0-G1
RSLM-70W-740-G1	4000K	70	70	8866	126	B2-U0-G2	8997	128	B3-U0-G2
RSLM-70W-730-G1	3000K	70	70	8426	121	B2-U0-G2	8456	121	B3-U0-G1

1. Typical values, rounded.

2. As per ANSI C136.15-2015

Lumen values based on photometric tests performed in compliance with IESNA LM-79. Note: Some data may be scaled based on tests of similar but not identical luminaires.

Predicted lumen depreciation data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours

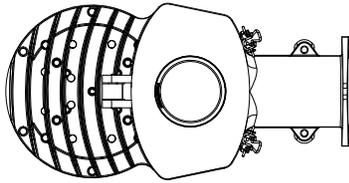
Ambient Temperature °C	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
Up to 40°C	>100,000 hours	>36,000	>87%

RSL Security luminaire

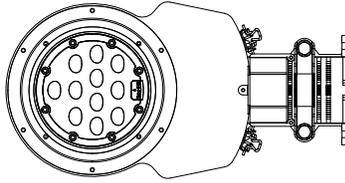
Roadway

Dimensions - RSLs (small)

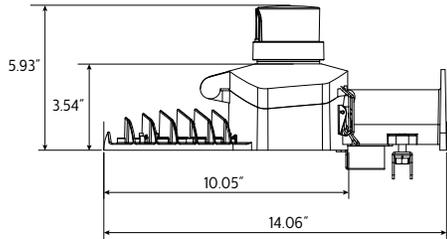
Top view



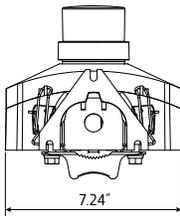
Bottom view



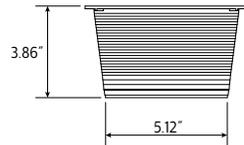
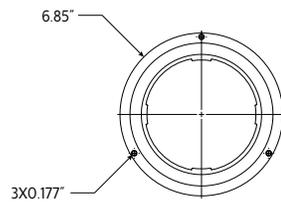
Side view



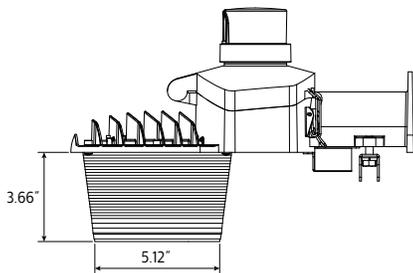
Rear view



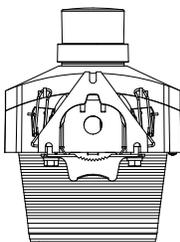
40w Drop lens



Side view



Rear view



RSLs-40W

Weight: 5.2 lbs

EPA: 0.13ft² / 0.012m² - no lens

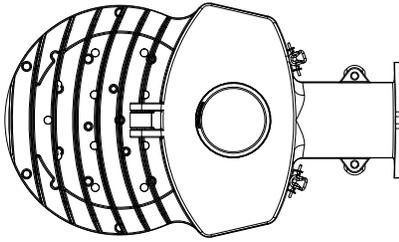
0.20ft² / 0.018m² - with lens

RSL Security luminaire

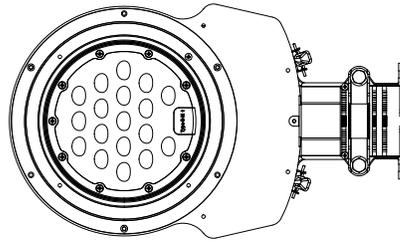
Roadway

Dimensions - RSLM (medium)

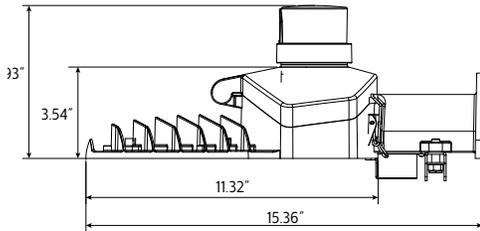
Top view



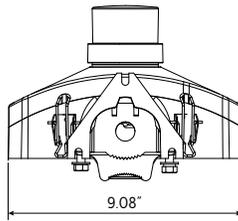
Bottom view



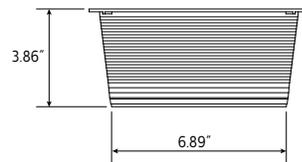
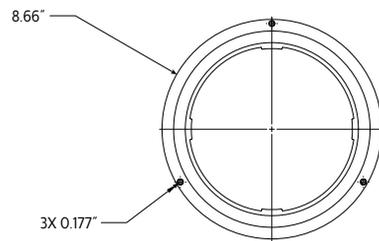
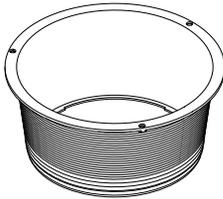
Side view



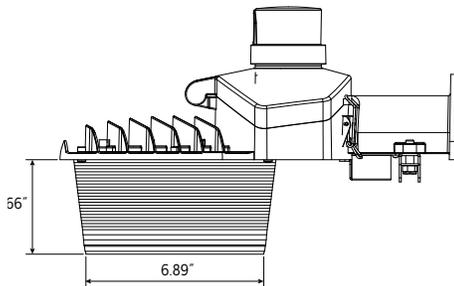
Rear view



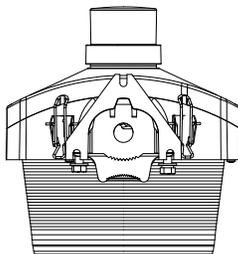
70w Drop lens



Side view



Rear view



RSLM-70W

Weight: 6.5 lbs

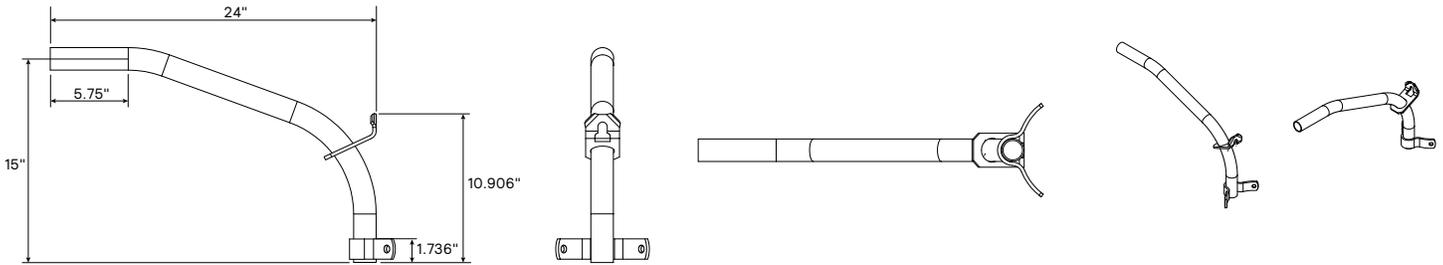
EPA: 0.14ft² / 0.013m² - no lens

0.22ft² / 0.020m² - with lens

RSL Security luminaire

Roadway

Dimensions - Arm mount



Specifications

Housing

Made of low copper die cast A380 Aluminum alloy. Fits on a 1.66" (42mm) O.D. (1.25" NPS) to 2 3/8" (60mm) O.D. (2" NPS) by 5 1/4" (133mm) minimum long tenon. Comes with a zinc plated clamp fixed by 2 zinc plated hexagonal bolts 3/8-16 UNC for ease of installation. Provides an easy step adjustment of +/- 5° tilt. A tool less entry, hinged door opens upward to provide access to electronic components and to a terminal block. Complete with ANSI C136.15-2015 label to identify wattage (included in box).

Light Engine

Composed of 4 main components: LED Module / Optical System / Heat Sink / Driver.

IP Rating

Electrical components are RoHS compliant, IP66 sealed light engine.

LED Board and Array

LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan

LED Module

Composed high-performance white LEDs. Color temperature as per ANSI bin 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K) or Warm white, 3000 Kelvin nominal (3045K +/- 175K or 2870K to 3220K), CRI 70 Min.

Optical System

Composed of high-performance optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. 0% uplight and U0 per IESNA TM-15.

Heat Sink

Built-in the housing. Product does not use any cooling device with moving parts (only passive cooling). Entire luminaire is rated for operation in ambient temperature of -30°C / -22°F up to +40°C / +104°F.

Driver

High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class 2, THD of 20% max.

Vibration Resistance

The RSL meets the ANSI C136.31-2010, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications. Tested for 3G over 100 000 cycles.

Integrated Features

TLRD7: (standard): Receptacle with 7 pins enabling dimming and additional functionality (to be determined), can be used with a twist lock Interact City node or photoelectric cell or a shorting cap (not included, must be ordered separately).

DMG: Dimmable driver 0-10V.

SP1: Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/ IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for LineGround, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED roadway luminaires Appendix D Electrical Immunity High test level 10kV/10kA.

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT thermal testing in accordance with UL1598 and UL8750, and LM-80/TM-21 data, expected to reach 100,000+ hours with >L70 lumen maintenance @ 25°C.

Wiring

The connection of the luminaire is done using a terminal block connector 600V, 85A for use with #2-14 AWG. wires from the primary circuit, located inside the housing. Fixture comes pre-wired with a 5 feet #14 lead.

Hardware

All exposed screws shall be 304 Stainless Steel. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Medium gray (GY3) color.

The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM-B117 standard.

Certifications and Compliance

cULus Wet Location Listed for Canada and USA. DesignLights Consortium (DLC) Qualified Products List (QPL). Consult DLC QPL to confirm your selected fixture is approved.

Accessories

ACC-PH8: Photoelectric cell

ACC-PHXL: Photoelectric cell, extended life

ACC-PH9: Shorting cap

ACC-RSLS-PSL: Prismatic Lens for RSLS

ACC-RSLM-PSL: Prismatic Lens for RSLM

ACC-RSLS-RSLM-ARM: Mounting arm with hardware.

Limited Warranty

5-year limited warranty. See signify.com/warranties for details and restrictions.

