



Lumec **RoadView LED** roadway luminaires were created to help those responsible for lighting our streets and highways succeed in their lighting design goals. Powered by the latest LED technology, and featuring innovative thermal management design, the RoadView offers exceptional performance and value. This versatile luminaire can be tailored to the unique specifications of each project by offering multiple LED boards and wattage options.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

Example: RVS-72W32LED4K-G2-LE2-UNV-DMG-RC-HS-PH8-GY3

Series	LED module	Gen.	Optical system	Voltage	Driver options	Luminaire options	Accessories	Finish
RVS		G2						
RVS	3000K 35W32LED3K 55W32LED3K 55W48LED3K 70W64LED3K 72W32LED3K 80W48LED3K 90W80LED3K 108W48LED3K 110W64LED3K 135W80LED3K 4000K 35W32LED4K 55W32LED4K 55W48LED4K 70W64LED4K 72W32LED4K 80W48LED4K 90W80LED4K 108W48LED4K 110W64LED4K 135W80LED4K	G2 Gen 2	LE2 Type II (ASYM) LE3 Type III (ASYM) LE4 Type IV (ASYM) LE5² Type V (ASYM)	HVU 347-480V UNV 120-277V	AST^{1,4} Pre-set driver for progressive start-up CDMGE25^{1,4} 8 hrs. 25% reduction CDMGE50^{1,4} 8 hrs. 50% reduction CDMGE75^{1,4} 8 hrs. 75% reduction CDMGM25^{1,4} 6 hrs. 25% reduction CDMGM50^{1,4} 6 hrs. 50% reduction CDMGM75^{1,4} 6 hrs. 75% reduction CDMGS25^{1,4} 4 hrs. 25% reduction CDMGS50^{1,4} 4 hrs. 50% reduction CDMGS75^{1,4} 4 hrs. 75% reduction CLO^{1,4} Pre-set driver to manage lumen depreciation DMG⁵ 0-10V OTL^{1,4} Pre-set driver to signal end of life of the lamp	API Factory Installed NEMA label, ANSI C136.15 compliant BL Bubble Level HS House Side Shield, shield, 1 per 16 LED light engine RC³ Receptacle for twist-lock photocell or shorting cap, 3-pin SP2 20kV / 20kA Surge Protector (optional)	PH8 Twist-lock Photoelectric Cell, UNV (120-277VAC) PH8/347 Twist-lock Photoelectric Cell, (347VAC) PH8/480 Twist-lock Photoelectric Cell, (480VAC) PHXL Twist-lock Photoelectric Cell, extended life, UNV (120-277VAC) PH9 Shorting cap	BK Black BR Bronze GY3 Medium Grey WH White

1. HVU 347V and 480V not available.
 2. Not available with HS option.
 3. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
 4. Dimming choices: Select either DMG or one of the CDMG options.
 5. Please note this integrated feature come standard with RoadView.
 Note: If DALI or 5 or 7 pin receptacle is required contact factory.

RVS RoadView LED Luminaire

Roadway

LED Wattage and Lumen Values

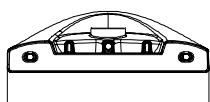
LED Module: 3000K	Total LEDs	LED Current (mA)	Average System Wattage ¹	Type LE2			Type LE3			Type LE4			Type LE5		
				Delivered Lumens ²	Efficacy (LPW)	BUG Rating	Delivered Lumens ²	Efficacy (LPW)	BUG Rating	Delivered Lumens ²	Efficacy (LPW)	BUG Rating	Delivered Lumens ²	Efficacy (LPW)	BUG Rating
RVS-35W32LED3K-G2	32	350	37	3486	95	B1-U0-G1	3381	92	B1-U0-G1	3349	91	B1-U0-G1	3294	90	B2-U0-G1
RVS-55W32LED3K-G2	32	530	55	4999	91	B1-U0-G1	4849	88	B1-U0-G1	4804	88	B1-U0-G1	4725	86	B3-U0-G1
RVS-72W32LED3K-G2	32	700	72	6234	87	B2-U0-G1	6116	85	B1-U0-G1	6059	85	B1-U0-G2	5959	83	B3-U0-G1
RVS-55W48LED3K-G2	48	350	51	5228	103	B1-U0-G1	5071	99	B1-U0-G1	5024	99	B1-U0-G1	4941	97	B3-U0-G1
RVS-80W48LED3K-G2	48	530	79	7499	95	B2-U0-G1	7274	92	B1-U0-G2	7206	91	B1-U0-G2	7087	90	B3-U0-G2
RVS-108W48LED3K-G2	48	700	106	9458	89	B2-U0-G2	9174	87	B2-U0-G2	9088	86	B2-U0-G2	8938	84	B3-U0-G2
RVS-70W64LED3K-G2	64	350	68	6971	102	B2-U0-G1	6762	99	B1-U0-G2	6698	98	B1-U0-G2	6588	97	B3-U0-G2
RVS-110W64LED3K-G2	64	530	105	9999	95	B2-U0-G2	9699	92	B2-U0-G2	9608	91	B2-U0-G2	9449	90	B3-U0-G2
RVS-90W80LED3K-G2	80	350	85	8714	102	B2-U0-G2	8452	99	B2-U0-G2	8373	98	B1-U0-G2	8235	97	B3-U0-G2
RVS-135W80LED3K-G2	80	530	132	12499	95	B3-U0-G2	12123	92	B2-U0-G2	12010	91	B2-U0-G2	11812	90	B4-U0-G2

LED Module: 4000K	Total LEDs	LED Current (mA)	Average System Wattage ¹	Type LE2			Type LE3			Type LE4			Type LE5		
				Delivered Lumens ²	Efficacy (LPW)	BUG Rating	Delivered Lumens ²	Efficacy (LPW)	BUG Rating	Delivered Lumens ²	Efficacy (LPW)	BUG Rating	Delivered Lumens ²	Efficacy (LPW)	BUG Rating
RVS-35W32LED4K-G2	32	350	37	3988	108	B1-U0-G1	3868	105	B1-U0-G1	3831	104	B1-U0-G1	3769	102	B2-U0-G1
RVS-55W32LED4K-G2	32	530	55	5719	104	B1-U0-G1	5548	101	B1-U0-G1	5496	100	B1-U0-G2	5406	99	B3-U0-G1
RVS-72W32LED4K-G2	32	700	72	7213	101	B2-U0-G1	6997	98	B1-U0-G2	6931	97	B1-U0-G2	6818	95	B3-U0-G2
RVS-55W48LED4K-G2	48	350	51	5981	117	B1-U0-G1	5801	114	B1-U0-G1	5747	113	B1-U0-G2	5653	111	B3-U0-G1
RVS-80W48LED4K-G2	48	530	79	8579	109	B2-U0-G2	8321	105	B2-U0-G2	8244	104	B1-U0-G2	8108	103	B3-U0-G2
RVS-108W48LED4K-G2	48	700	106	10820	102	B2-U0-G2	10495	99	B2-U0-G2	10397	98	B2-U0-G2	10226	97	B4-U0-G2
RVS-70W64LED4K-G2	64	350	68	7975	117	B2-U0-G1	7735	114	B1-U0-G2	7663	113	B1-U0-G2	7537	111	B3-U0-G2
RVS-110W64LED4K-G2	64	530	105	11439	109	B2-U0-G2	11095	105	B2-U0-G2	10992	104	B2-U0-G2	10811	103	B4-U0-G2
RVS-90W80LED4K-G2	80	350	85	9968	117	B2-U0-G2	9669	114	B2-U0-G2	9579	113	B2-U0-G2	9422	111	B3-U0-G2
RVS-135W80LED4K-G2	80	530	132	14298	109	B3-U0-G2	13869	105	B2-U0-G2	13739	104	B2-U0-G2	13514	103	B4-U0-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications: signify.com/outdoorluminaire.

Note: Some data may be scaled based on tests of similar. But not identical luminaires

Dimensions



15.38" (391 mm)

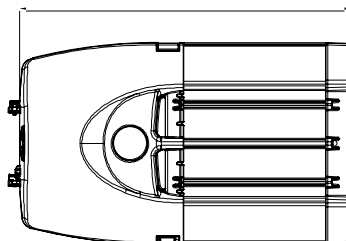
Weight: 23.0 to 26.0 lbs
(10.4 to 11.8 kg)



4.66" (118 mm)

2.38" (61 mm)

21.38" (543 mm) min. - 25.25" (641 mm) max.



RVS RoadView LED Luminaire

Roadway

Specifications

Housing

Made of a low copper die cast A360 Aluminum alloy 0.090 (2.4mm) minimum thickness. Fits on a 1.66" (42mm) to 2 3/8" (60mm) OD by 6" (152mm) long tenon. Comes with an easy step adjustable reversible zinc plated clamping system with 4 zinc plated hexagonal bolts 3/8 16 UNC for ease of maintenance and installation. Provide an easy step adjustment of +/- 5°. The housing is complete with a tool free removable and secured power door avoiding accidental dropping giving access to electronics components and to a terminal block that accepts (#2 max.) wires from the primary circuit. A clearance of 13"(330mm) at the rear is required in order to remove the door. Complete with a bird guard protecting against birds and similar intruders. ANSI label to identify wattage and source optional.

Light Engine

LED engine composed of 4 main components: Heat Sink / LED Module / Optical System / Driver Electrical components are RoHS compliant.

Heat Sink

Made of 6063 T5 extruded aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Lens

Made of soda lime tempered glass lens, mechanically assembled and sealed onto the lower part of the heat sink.

LED Module

Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical.

Predicted Lumen Depreciation Data

Ambient Temperature °C	LED Current	Calculated L70hrs ^{1,2}	L70 per TM21 ^{2,3}	Lumen Maintenance @ 60,000hrs
25 °C	700 mA	>100,000	>60,000	82%

1. 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.
2. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM 21-11. Published L70 hours limited to 6 times actual LED test hours.

Optical System

Composed of high performance UV stabilized 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.

End Cap

Made of low copper die cast A360.1 Aluminum alloy 0.100 (2.5mm) minimum thickness, mechanically assembled to the heat sink.

Driver

High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. Driver comes with dimming compatible 0-10 volts. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Surge Protector

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA

Driver and Luminaire Options

AST*: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.

CLO*: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.

OTL*: Pre-set driver to signal end of life of the LED module(s) for better fixture management.

CDMG*: Dynadimmer standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

Safety Mode:

CDMG25: 4 hours 25% power dimming

CDMG50: 4 hours 50% power dimming

CDMG75: 4 hours 75% power dimming

Median Mode:

CDMG25: 6 hours 25% power dimming

CDMG50: 6 hours 50% power dimming

CDMG75: 6 hours 75% power dimming

Economy Mode:

CDMG25: 8 hours 25% power dimming

CDMG50: 8 hours 50% power dimming

CDMG75: 8 hours 75% power dimming

Luminaire Options

API: Factory Installed NEMA label, ANSI C136.15 compliant

BL: Bubble Level

HS: House side shield, 1 per 16 LED light engine.

SP2: 20kV / 20kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

RC*: (standard): Receptacle with 3 pins enabling dimming and additional functionality (to be determined), can be used with a twist lock CityTouch node or photoelectric cell or a shorting cap.

* Use of photoelectric cell or shorting cap is required to ensure proper illumination.

RVS RoadView LED Luminaire

Roadway

Specifications

Accessories

PH8: Twist-lock Photoelectric Cell, UNV (120-277VAC).

PH8/347: Twist-lock Photoelectric Cell, HVU (347VAC).

PH8/480: Twist-lock Photoelectric Cell, HVU (480VAC).

PHXL: Twist-lock Photoelectric Cell, extended life, UNV (120-277VAC).

PH9: Shorting cap.

Luminaire Useful Life

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

Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

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. Due to the inrush current that occurs with electronic drivers, recommend using a 10Amp time delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses.

Hardware

All exposed screws shall be complete with Ceramic primer seal basecoat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Color to be in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

LED products manufacturing standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340 5 1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Quality Control

The manufacturer must provide a written confirmation of its ISO 9001 2008 and ISO 14001 2004 International Quality Standards Certification.

Vibration Resistance

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

The RVM meets the California Test 611, Testing durability of mast arm mounted luminaires, specifications (a 2 000 000 cycles test).

Certifications and Compliance

cULus Listed for Canada and USA. Luminaire meets DOE and MSSLC Model Specification for LED Roadway Luminaires. RoadStar LED roadway luminaires are DesignLights Consortium qualified. Luminaire complies with or exceeds the following ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Limited Warranty

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

