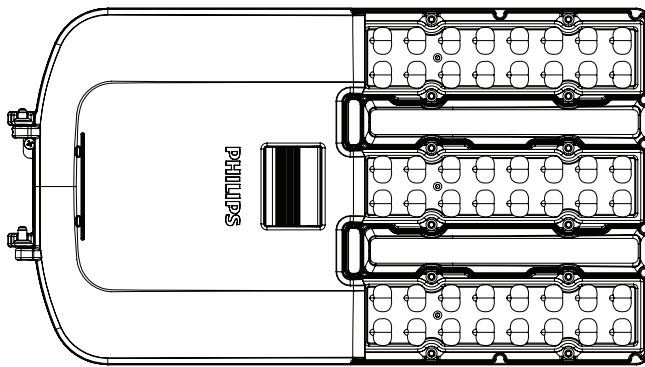
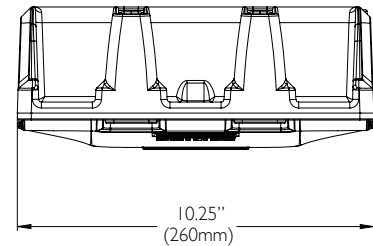
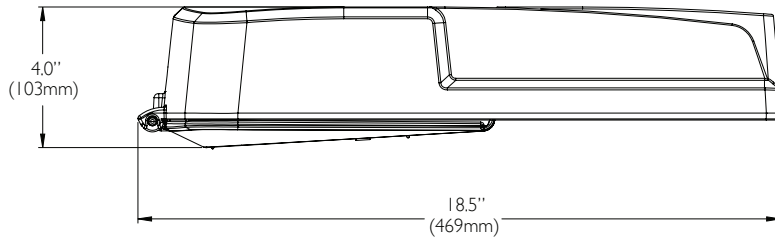


Project:	Catalog No:	Mfg:
Location:	Fixture Type:	Qty:
Notes:		Lamps:



### SVM

EPA:  
0.51 sq ft

Weight:  
10.4 lbs (4.7 kg)

### Ordering Guide

example: SVM-90W48LED4K-R-LE3-UNIV-DMG-RC-HS-GY3

Luminaire	Lamp	Optical System	Voltage	Integrated Features	Driver and Luminaire Options	Luminaire Accessories	Finish
<b>SVM</b>	<b>90W48LED4K-R</b>	<b>LE3</b>	<b>UNIV</b>	<b>RC</b>		<b>HS</b>	<b>GY3</b>
<b>SVM</b> LED Roadway Luminaire	30W16LED4K-R 60W32LED4K-R 90W48LED4K-R	<b>LE2 TYPE II</b> <b>LE3 TYPE III</b> <b>LE5 TYPE V</b>	<b>UNIV:</b> 120 / 277: 30W, 60W, 90W <b>HVU:</b> 347 / 480: 60W, 90W <b>120:</b> 30W	<b>RC</b> Receptacle for a twist-lock photocell or shorting cap <b>DMG</b> Dimmable driver 0-10V  <i>Please note that these integrated features always come with StreetView luminaire.</i>	<b>SP1</b> <b>CLO</b> <b>AST</b> <b>OTL</b> <b>AMPD</b> <b>CDMG</b> <b>DALI</b>  <i>Please note that these options are not part of the quick ship program and are shipped separately.</i>	<b>HS</b> House side shield <b>PH8</b> Photoelectric cell <b>PH9</b> Shorting Cap <b>SPC</b> Starsense Photo-cell Control  <i>Please note that these accessories are part of the quick ship program. They are quickly and easily installed in the field.</i>	<b>GY3</b> Grey finish <b>NF</b> Non-painted (optional)



### LED Module Details

LED = Philips LUXEON R. CRI= 70 Min, 75 Typical. CCT = ANSI 4000K (3985K +/- 275K)

System (LED + driver) rated life = 100,000 hrs<sup>1</sup>

Lamp	Typical Delivered Lumens	Typical Lamp Wattage (W)	Typical System Wattage (W) <sup>2</sup>	Typical System Current (A) @					Led Current (mA)	HPS <sup>3</sup> Equivalent	Luminaire Efficacy Rating (Lm/W)	BUG Rating
				120V	240V	277V	347V	480V				
30W16LED4K-R-LE2	3075	30	35	0.29	0.17	0.12	0.1	0.07	700	70W	87	B1 U0 G1
30W16LED4K-R-LE3	3295	30	35	0.29	0.17	0.12	0.1	0.07	700	70W	92	B1 U0 G1
30W16LED4K-R-LE5	3145	30	35	0.29	0.17	0.12	0.1	0.07	700	70W	88	B2 U0 G1
60W32LED4K-R-LE2	6619	60	70	0.57	0.33	0.25	0.2	0.14	700	100W	94	B2 U0 G1
60W32LED4K-R-LE3	6924	60	70	0.57	0.33	0.25	0.2	0.14	700	100W	97	B2 U0 G2
60W32LED4K-R-LE5	6280	60	70	0.57	0.33	0.25	0.2	0.14	700	100W	89	B3 U0 G1
90W48LED4K-R-LE2	9854	90	105	0.86	0.5	0.43	0.3	0.22	700	150W	95	B2 U0 G2
90W48LED4K-R-LE3	10113	90	105	0.86	0.5	0.43	0.3	0.22	700	150W	98	B2 U0 G2
90W48LED4K-R-LE5	9868	90	105	0.86	0.5	0.43	0.3	0.22	700	150W	95	B4 U0 G4
90W48LED4K-R-LE2-HS <sup>4</sup>	7793	90	105	0.86	0.5	0.43	0.3	0.22	700	150W	75	B1 U0 G2
90W48LED4K-R-LE3-HS <sup>4</sup>	7866	90	105	0.86	0.5	0.43	0.3	0.22	700	150W	76	B1 U0 G2

<sup>1</sup> L70 = 100,000+ hrs (at ambient temperature = 25°C and forward current = 700 mA).

<sup>2</sup> System wattage includes the lamp and the LED driver.

<sup>3</sup> Equivalence should always be confirmed by a photometric layout

<sup>4</sup> HS is shown as an example. HS is also available with all other lamps except for type V distribution.

Note : Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.

### Housing:

Made of low copper die cast A360 Aluminum alloy 0.100" (2.5mm) minimum thickness. Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 4 1/4" (108mm) minimum long tenon. Comes with a zinc plated clamp fixed by 2 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provide an easy step adjustment of +/- 5° tilt in 2.5° increment. A quick release tool less entry hinged removable door opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. A clearance of 8" (203mm) at the rear is required in order to remove the door. ANSI Pattern Indicator label to identify wattage and source included in box. The rear is required in order to remove the door.

### Light Engine:

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

Electrical components are RoHS compliant, IP66 sealed light engine equipped with Philips Lumileds Luxeon R LEDs.

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.

### Lamp:

(Included), Lamp type Philips Lumileds Luxeon R. Color temperature as per ANSI bin 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical.

### Optical System:

Composed of high performance optical grade PMMA acrylic refractors lenses to achieve desired distribution optimized to get maximum spacing, target lumen and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM63 and LM79 and TM15 (IESNA) certifying its photometric performance. Dark Sky compliant with 0% uplight and U0 per IESNA TM15.

**LE2 TYPE II** Asymmetrical Distribution

**LE3 TYPE III** Asymmetrical Distribution

**LE5 TYPE V** Symmetrical (square)

### Heat Sink:

Built in the housing, the innovative high efficacy heat sink chimney design ensures superior cooling by natural convection air flow pattern always close to LEDs and driver optimising their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling). Wide channels enable natural cleaning and removal of dirt and debris.

Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +40°C / +104°F.

### Driver

High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 and 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max.

Maximum ambient operating temperature from 40F( 40C) to 130F(55C) degrees. Certified in compliance to UL8750 cULus requirement.

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).

### Integrated Features

#### RC

Receptacle for a twist-lock photocell or shorting cap

#### DGM

Dimmable driver 0-10V

Please note that these integrated features always come with StreetView luminaire.

### Driver and Luminaire Options

#### 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 Line-Ground, 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.

#### 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 lamp.



### **AST**

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

### **OTL**

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

### **AMPD**

Driver pre-programmed for compatibility with Amplight control system.

### **CDMG**

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

### **DALI**

Pre-set driver compatible with the DALI control system.

*Please note that these options are not part of the quick ship program.*

## **Luminaire Accessories**

### **HS**

House side shield

### **PH8**

Photoelectric cell

### **PH9**

Shorting Cap

### **SPC**

Starsense Photo-cell Control

*Please note that these accessories are part of the quick ship program. They are quickly and easily installed in the field.*

## **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, Philips Advance data and Philips Lumileds LM80/TM21 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.

## **Hardware:**

All exposed screws shall be stainless steel with Ceramic primer seal basecoat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

## **Finish:**

Color to be medium grey (GY3) and in accordance with the AAMA 2603 standard. Application of a polyester powdercoat paint (4 mils/100 microns) with  $\pm 1$  mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D 2244 standard, as well as luster retention in keeping with the ASTM D 523 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.

## **Vibration Resistance:**

The SVM 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 by an independent lab).

## **Certifications and Compliance:**

CSA, UL or cUL. Luminaire complies with DOE MSSLC Model Specification for LED Roadway Luminaires. StreetView is listed on the DesignLights Consortium (DLC) qualified products list.

## **Warranty:**

StreetView is covered by a 10-year warranty from defects in material and workmanship in its intended use, as well as coverage for the finish. Visit website for more details on warranty.

