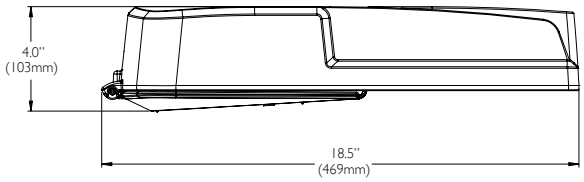
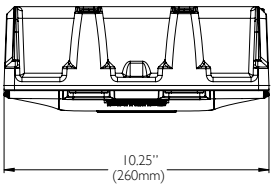
StreetView

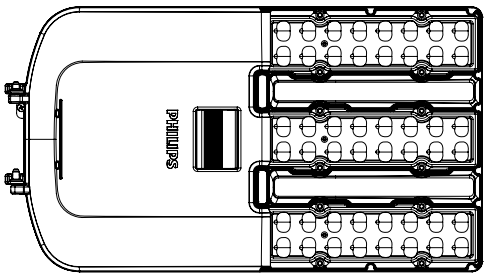
SVM

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

Notes:







SVM

EPA:
0.51 sq ft

Weight:
10.4 lbs (4.7 kg)

Ordering Guide

example: SVM-90W48LED4K-R-LE3-UNIV-DMG-RC-WC10-HS-GY3

Luminaire	LED Module	Optical System	Voltage	Integrated Features	Driver and Luminaire Options	Luminaire Accessories	Finish
SVM	90W48LED4K-R	LE3	UNIV	DMG-RC-WC10	SP1	HS	GY3
SVM LED Roadway Luminaire	16W16LED4K-R 22W16LED4K-R 24W16LED4K-R 30W16LED4K-R 32W32LED4K-R 48W32LED4K-R 60W32LED4K-R 48W48LED4K-R 72W48LED4K-R 90W48LED4K-R	**LE2** TYPE II **LE3** TYPE III **LE5** TYPE V	**UNIV:** 120 / 277: 16LED 32 LED 48 LED **HVU:** 347 / 480: 32 LED 48 LED	**DMG**[1] Dimmable driver 0-10V **RC**[1,2] Receptacle for a twist-lock photocell or shorting cap **WC10**[1] 10-year limited warranty	**SP1** **CLO*** **AST*** **OTL*** **AMPD*** **CDMG*** **DALI*** ** Not available with 347/480V*	**HS**[3] House side shield **PH8**[2,3] Photoelectric cell **PH8XL**[2,3,4] Photoelectric cell, extended life **PH9**[2,3] Shorting Cap **SPC**[3] Starsense Photo-cell Control	**GY3** Grey finish **NF** Non-painted (optional)

Ordering Guide - StreetView High Output

example: SVM-140W48LED4K-T-LE3-UNIV-DMG-RC-WC10-HS-GY3

Luminaire	LED Module	Optical System	Voltage	Integrated Features	Driver and Luminaire Options	Luminaire Accessories	Finish
SVM	140W48LED4K-T	LE3	UNIV	DMG-RC-WC10	SP1	HS	GY3
SVM LED Roadway Luminaire	140W48LED4K-T	**LE2** TYPE II **LE3** TYPE III **LE5** TYPE V	**UNIV:** 120 / 277	**DMG**[1] Dimmable driver 0-10V **RC**[1,2] Receptacle for a twist-lock photocell or shorting cap **WC10**[1] 10-year limited warranty	**SP1**	**HS**[3] House side shield **PH8**[2,3] Photoelectric cell **PH8XL**[2,3,4] Photoelectric cell, extended life **PH9**[2,3] Shorting Cap **SPC**[3] Starsense Photo-cell Control	**GY3** Grey finish

1. Please note that these integrated features always come with MiniView luminaires.
2. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
3. Please note that these accessories need to be ordered as an accessory, and they are quickly and easily installed in the field.
4. Not available with HVU: 347 / 480 volt.

PHILIPS LUMEC

LED Wattage and Lumen Values - StreetView Luminaire

LED = Philips Lumileds LUXEON R, CRI = 75, CCT = 4000K (+/- 350K)

System (LED + driver) rated life = 100,000 hrs [1]

LED Module	Typical Delivered Lumens	Typical System Wattage (W)[2]	Typical System Current (A) @						LED Current (mA)	HID Equivalent[3]	Luminaire Efficacy Rating (Lm/W)	BUG Rating
			120V	208V	240V	277V	347V	480V				
16W16LED4K-R-LE2	1761	18	0.157	0.091	0.089	0.085	N/A	N/A	350	50-70W	100	B1 U0 G1
16W16LED4K-R-LE3	1870	18	0.157	0.091	0.089	0.085	N/A	N/A	350	50-70W	107	B1 U0 G1
16W16LED4K-R-LE5	1784	18	0.157	0.091	0.089	0.085	N/A	N/A	350	50-70W	102	B2 U0 G0
22W16LED4K-R-LE2	2359	24	0.215	0.124	0.156	0.142	N/A	N/A	490	50-70W	95	B1 U0 G1
22W16LED4K-R-LE3	2504	24	0.215	0.124	0.156	0.142	N/A	N/A	490	50-70W	101	B1 U0 G1
22W16LED4K-R-LE5	2390	24	0.215	0.124	0.156	0.142	N/A	N/A	490	50-70W	96	B2 U0 G1
24W16LED4K-R-LE2	2511	25	0.307	0.177	0.158	0.141	N/A	N/A	530	70-100W	94	B1 U0 G1
24W16LED4K-R-LE3	2666	25	0.307	0.177	0.158	0.141	N/A	N/A	530	70-100W	100	B1 U0 G1
24W16LED4K-R-LE5	2544	25	0.307	0.177	0.158	0.141	N/A	N/A	530	70-100W	95	B2 U0 G1
30W16LED4K-R-LE2	3075	35	0.29	0.167	0.17	0.12	N/A	N/A	700	70-100W	87	B1 U0 G1
30W16LED4K-R-LE3	3295	35	0.29	0.167	0.17	0.12	N/A	N/A	700	70-100W	92	B1 U0 G1
30W16LED4K-R-LE5	3145	35	0.29	0.167	0.17	0.12	N/A	N/A	700	70-100W	88	B2 U0 G1
32W32LED4K-R-LE2	3618	36	0.29	0.167	0.162	0.154	0.119	0.1	350	70-100W	103	B1 U0 G1
32W32LED4K-R-LE3	3754	36	0.29	0.167	0.162	0.154	0.119	0.1	350	70-100W	107	B1 U0 G1
32W32LED4K-R-LE5	3404	36	0.29	0.167	0.162	0.154	0.119	0.1	350	70-100W	97	B2 U0 G1
48W32LED4K-R-LE2	5309	49	0.401	0.231	0.211	0.193	0.172	0.14	530	70-100W	100	B1 U0 G1
48W32LED4K-R-LE3	5509	49	0.401	0.231	0.211	0.193	0.172	0.14	530	70-100W	104	B1 U0 G1
48W32LED4K-R-LE5	4995	49	0.401	0.231	0.211	0.193	0.172	0.14	530	70-100W	94	B3 U0 G1
60W32LED4K-R-LE2	6619	70	0.57	0.329	0.33	0.25	0.2	0.14	700	100-150W	94	B2 U0 G1
60W32LED4K-R-LE3	6924	70	0.57	0.329	0.33	0.25	0.2	0.14	700	100-150W	97	B2 U0 G2
60W32LED4K-R-LE5	6280	70	0.57	0.329	0.33	0.25	0.2	0.14	700	100-150W	89	B3 U0 G1
48W48LED4K-R-LE2	5090	49	0.383	0.221	0.225	0.214	0.167	0.132	350	70-100W	105	B1 U0 G1
48W48LED4K-R-LE3	5224	49	0.383	0.221	0.225	0.214	0.167	0.132	350	70-100W	107	B1 U0 G1
48W48LED4K-R-LE5	5097	49	0.383	0.221	0.225	0.214	0.167	0.132	350	70-100W	105	B3 U0 G1
72W48LED4K-R-LE2	7705	78	0.63	0.363	0.336	0.309	0.239	0.178	530	100-150W	99	B2 U0 G2
72W48LED4K-R-LE3	7909	78	0.63	0.363	0.336	0.309	0.239	0.178	530	100-150W	101	B2 U0 G2
72W48LED4K-R-LE5	7717	78	0.63	0.363	0.336	0.309	0.239	0.178	530	100-150W	99	B3 U0 G2
90W48LED4K-R-LE2	9854	105	0.86	0.496	0.5	0.43	0.3	0.22	700	150-175W	95	B2 U0 G2
90W48LED4K-R-LE3	10113	105	0.86	0.496	0.5	0.43	0.3	0.22	700	150-175W	98	B2 U0 G2
90W48LED4K-R-LE5	9868	105	0.86	0.496	0.5	0.43	0.3	0.22	700	150-175W	95	B4 U0 G4
90W48LED4K-R-LE2-HS[4]	7793	105	0.86	-	0.5	0.43	0.3	0.22	700	150W	75	B1 U0 G2
90W48LED4K-R-LE3-HS[4]	7866	105	0.86	-	0.5	0.43	0.3	0.22	700	150W	76	B1 U0 G2

1 L_{70} > 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA).
2 System wattage or total luminaire wattage includes the LED module and the LED driver.
3 Equivalence should always be confirmed by a photometric layout.
4 HS is shown as an example. HS is also available with all other LED modules 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.

LED Wattage and Lumen Values - StreetView High Output Luminaire

LED = Philips Lumileds LUXEON T, CRI = 75, CCT = 4000K (+/- 350K)

System (LED + driver) rated life = 100,000 hrs [1]

LED Module	Typical Delivered Lumens	Typical System Wattage (W)[2]	Typical System Current (A) @						LED Current (mA)	HID Equivalent[3]	Luminaire Efficacy Rating (Lm/W)	BUG Rating
			120V	208V	240V	277V	347V	480V				
140W48LED4K-T-LE2	14556	160	1.330	0.760	0.665	0.575	N/A	N/A	1050	200-250W	94	B3 U0 G2
140W48LED4K-T-LE3	15200	160	1.330	0.760	0.665	0.575	N/A	N/A	1050	200-250W	98	B3 U0 G2
140W48LED4K-T-LE5	14880	160	1.330	0.760	0.665	0.575	N/A	N/A	1050	200-250W	96	B4 U0 G2

1 L_{70} > 100,000 hrs (at ambient temperature = 25°C and forward current = 1050 mA).
2 System wattage or total luminaire wattage includes the LED module and the LED driver.
3 Equivalence should always be confirmed by a photometric layout.
4 HS is shown as an example. HS is also available with all other LED modules 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.

Specifications

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. Provides an easy step adjustment of +/- 5° tilt in 2.5° increments.
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. Complete with a bird guard protecting against birds and similar intruders and an ANSI label to identify wattage and source (both included in box).

Light Engine:

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

Electrical components are RoHS compliant, IP66 sealed LED module equipped with Philips Lumileds LUXEON 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.

LED Module:

(Included), Philips Lumileds LUXEON R LEDs = all 16LED, all 32LED, 48LED versions except 140W48LED4K = LUXEON T LEDs. Color temperature as per ANSI bin 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical.

Optical System:

Composed of high-performance optical grade polymer refractors 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. Dark Sky compliant with 0% uplight and U0 per IESNA TM-15.

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 (148W40LED4K available in 120-277V only) rated for both application line to line or line to neutral, Class I, THD of 20% max.

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. Use of photocell or shorting cap is required to ensure proper illumination.

DMG
Dimmable driver 0-10V

WC10
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.

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 LED module.

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*
Dynadimmer 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.

** Not available with 347/480V or 140W48LED versions.*

Luminaire Accessories

HS
House side shield
PH8[1]
Photoelectric cell
PH8XL[1,2]
Photoelectric cell, twist-lock type, "Fail ON", extended life / 10-year limited warranty from supplier
PH9[1]
Shorting Cap
SPC[1]
Starsense Photo-cell Control

1 Luminaire option RC is required with this accessory.

2 Not available with HVU: 347 / 480 volt.

Please note that these accessories need to be ordered as an accessory, and 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 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.

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 ± 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.

Vibration Resistance:

The SVM meets the ANSI C136.31, 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, cULus listed for Canada and USA. Luminaire complies with DOE MSSLC Model Specification for LED Roadway Luminaires. StreetView is listed on the DesignLights Consortium (DLC) Qualified Products

DESIGNLIGHTS CONSORTIUM®

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