



EPA: 0.60 sq ft / weight: 26 lb (11.8 kg)
 Note: 3D image may not represent color or option selected.
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Qty	1	Type	A
		Luminaire	RVS-80W48LED4K-R-LE3-UNIV-DMG-[API-006]-RCD7-GY3

Description of Components:

Housing: Made of 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 hexagonal bolts 3/8 16 UNC for ease of maintenance and installation. The clamping system is pre-assembled for a 2 3/8" (60mm) diameter tenon. For a 1.66" (42mm) or 1.9" (48mm) diameter tenon the clamping system must be reversed by others. Permits an 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.

Light Engine: LEDgine composed of 4 main components: **Heat Sink / LED lamp / 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). **Finish of extrusion will be clear anodized not painted.**

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

Lamp: LED Module (Included), LED type Philips Lumileds LUXEON R. Composed of 48 high-performance white LEDs. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan based on TM-21 extrapolation to get results after which 50% of LEDs still emits over 70% (L70) of its original lumen output. Use of metal core board ensures greater heat transfer and longer lifespan of the light engine. The LED circuit board is included with a quick disconnect wiring connection for ease of replacement.

Optical System: (LE3), IES type III (asymmetrical). Composed of high-performance optical grade PMMA acrylic 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. Dark Sky compliant with 0% uplight and U0 per IESNA TM-15.

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

Driver: High power factor of 95%. 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 I**, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees.

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).

Driver Options: (DMG), Dimming compatible 0-10 volts. For applicable warranty, certification and operation guide see "*Philips Lumec dimmable luminaire specification document for unapproved device installed by other*". To get document, click on this link: [Specification document](#) or go on web site on this address: [http://www.lumec.com/Lumec3DV2/PdfWebLink/Philips Lumec dimmable luminaire specification document for unapproved device installed by other.pdf](http://www.lumec.com/Lumec3DV2/PdfWebLink/Philips%20Lumec%20dimmable%20luminaire%20specification%20document%20for%20unapproved%20device%20installed%20by%20other.pdf)

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) MSSLC (Municipal Solid-State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

Luminaire Options: [API-006] Two ANSI Pattern Indicator label; one to identify system wattage and LED source and a second one to identify the type A. (RCD7), Receptacle with 7 pins enabling dimming and with two extra connections for future use (these connections are capped off at the factory - requires connections to be made in the field), can be used with a twist-lock Starsense or photoelectric cell or a shorting cap. Use of photocell or shorting cap is required to ensure proper illumination.

Miscellaneous

Description of Components:

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 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 **medium grey (GY3)** and 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.

Surface Finish: *The above mentioned product has been specified in a smooth finish. We wish to inform you that we cannot guarantee a finish without imperfections (e.g. apparent grinding marks and porosity). We strongly recommend the use of a textured finish which provides better uniformity of surface finish. No return of merchandise showing above mentioned imperfection will be granted.*

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 RVS 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)

Web site information details: / [ISO 9001-2008 Certification](#) / [ISO 14001-2004 Certification](#)

LED light engine technical information for RVS

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

System (LED + driver) rated life = 100,000 hrs¹

Lamp	Typical delivered lumens	Typical system wattage ² (W)	Typical current @ 120 V (A)	Typical current @ 208 V (A)	Typical current @ 240 V (A)	Typical current @ 277 V (A)	Typical current @ 347 V (A)	Typical current @ 480 V (A)	LED current (mA)	HID equivalent ³	Luminaire Efficacy Rating (lm/W)	BUG rating
35W32LED4K-R-LE2	3670	36	0.29	0.17	0.16	0.15	N/A	N/A	350	70-100W	101.9	B1-U0-G1
35W32LED4K-R-LE3	3686	36	0.29	0.17	0.16	0.15	N/A	N/A	350	70-100W	102.4	B1-U0-G1
35W32LED4K-R-LE4	3434	36	0.29	0.17	0.16	0.15	N/A	N/A	350	70-100W	95.4	B1-U0-G1
35W32LED4K-R-LE5	3108	36	0.29	0.17	0.16	0.15	N/A	N/A	350	70-100W	86.3	B2-U0-G1
55W32LED4K-R-LE2	5303	53	0.40	0.23	0.21	0.19	N/A	N/A	530	100-150W	100.1	B1-U0-G1
55W32LED4K-R-LE3	5327	53	0.40	0.23	0.21	0.19	N/A	N/A	530	100-150W	100.5	B1-U0-G1
55W32LED4K-R-LE4	4969	53	0.40	0.23	0.21	0.19	N/A	N/A	530	100-150W	93.8	B1-U0-G1
55W32LED4K-R-LE5	4505	53	0.40	0.23	0.21	0.19	N/A	N/A	530	100-150W	85.0	B3-U0-G1
72W32LED4K-R-LE2	6507	70	0.57	0.33	0.33	0.25	0.20	0.14	700	100-150W	93.0	B2-U0-G1
72W32LED4K-R-LE3	6536	70	0.57	0.33	0.33	0.25	0.20	0.14	700	100-150W	93.4	B2-U0-G1
72W32LED4K-R-LE4	6092	70	0.57	0.33	0.33	0.25	0.20	0.14	700	100-150W	87.0	B2-U0-G2
72W32LED4K-R-LE5	6036	70	0.57	0.33	0.33	0.25	0.20	0.14	700	100-150W	86.2	B3-U0-G1
55W48LED4K-R-LE2	5469	55	0.38	0.22	0.23	0.21	0.17	0.13	350	100-150W	99.4	B1-U0-G1
55W48LED4K-R-LE3	5397	55	0.38	0.22	0.23	0.21	0.17	0.13	350	100-150W	98.1	B1-U0-G1
55W48LED4K-R-LE4	5152	55	0.38	0.22	0.23	0.21	0.17	0.13	350	100-150W	93.7	B1-U0-G1
55W48LED4K-R-LE5	4685	55	0.38	0.22	0.23	0.21	0.17	0.13	350	100-150W	85.2	B3-U0-G1
80W48LED4K-R-LE2	7903	79	0.63	0.36	0.34	0.31	0.24	0.18	530	150-175W	100.0	B2-U0-G1
80W48LED4K-R-LE3	7799	79	0.63	0.36	0.34	0.31	0.24	0.18	530	150-175W	98.7	B2-U0-G1
80W48LED4K-R-LE4	7444	79	0.63	0.36	0.34	0.31	0.24	0.18	530	150-175W	94.2	B2-U0-G2
80W48LED4K-R-LE5	6757	79	0.63	0.36	0.34	0.31	0.24	0.18	530	150-175W	85.5	B3-U0-G1
108W48LED4K-R-LE2	9694	105	0.86	0.50	0.50	0.43	0.30	0.22	700	175-200W	92.3	B2-U0-G2
108W48LED4K-R-LE3	9570	105	0.86	0.50	0.50	0.43	0.30	0.22	700	175-200W	91.1	B2-U0-G2
108W48LED4K-R-LE4	9134	105	0.86	0.50	0.50	0.43	0.30	0.22	700	175-200W	87.0	B2-U0-G2
108W48LED4K-R-LE5	8987	105	0.86	0.50	0.50	0.43	0.30	0.22	700	175-200W	85.6	B3-U0-G2
70W64LED4K-R-LE2	6947	71	0.58	0.34	0.32	0.30	0.24	0.20	350	100-150W	97.8	B2-U0-G1
70W64LED4K-R-LE3	6970	71	0.58	0.34	0.32	0.30	0.24	0.20	350	100-150W	98.2	B2-U0-G1
70W64LED4K-R-LE4	6481	71	0.58	0.34	0.32	0.30	0.24	0.20	350	100-150W	91.3	B2-U0-G2
70W64LED4K-R-LE5	6239	71	0.58	0.34	0.32	0.30	0.24	0.20	350	100-150W	87.9	B3-U0-G1
110W64LED4K-R-LE2	10039	103	0.80	0.46	0.42	0.38	0.34	0.28	530	200-250W	97.5	B2-U0-G2
110W64LED4K-R-LE3	10072	103	0.80	0.46	0.42	0.38	0.34	0.28	530	200-250W	97.8	B2-U0-G2
110W64LED4K-R-LE4	9359	103	0.80	0.46	0.42	0.38	0.34	0.28	530	200-250W	90.9	B2-U0-G2
110W64LED4K-R-LE5	9010	103	0.80	0.46	0.42	0.38	0.34	0.28	530	200-250W	87.5	B3-U0-G2
90W80LED4K-R-LE2	8409	90	0.78	0.43	0.40	0.34	0.30	0.25	350	175-200W	93.4	B2-U0-G1
90W80LED4K-R-LE3	8555	90	0.78	0.43	0.40	0.34	0.30	0.25	350	175-200W	95.1	B2-U0-G2
90W80LED4K-R-LE4	8096	90	0.78	0.43	0.40	0.34	0.30	0.25	350	175-200W	90.0	B2-U0-G2
90W80LED4K-R-LE5	7793	90	0.78	0.43	0.40	0.34	0.30	0.25	350	175-200W	86.6	B3-U0-G2
135W80LED4K-R-LE2	12152	128	1.15	0.61	0.58	0.50	0.43	0.35	530	200-250W	94.9	B3-U0-G2
135W80LED4K-R-LE3	12363	128	1.15	0.61	0.58	0.50	0.43	0.35	530	200-250W	96.6	B3-U0-G2
135W80LED4K-R-LE4	11699	128	1.15	0.61	0.58	0.50	0.43	0.35	530	200-250W	91.4	B2-U0-G2
135W80LED4K-R-LE5	11262	128	1.15	0.61	0.58	0.50	0.43	0.35	530	200-250W	88.0	B4-U0-G2

¹ L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA)

² System wattage includes the lamp and the LED driver.

³ Equivalence should always be confirmed by a photometric layout

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.