

RLX Wildlife Certified LED Specifications



Project Name:

Catalog Number:

Type:

The new **Roadway LX** series improves on the classic "Cobrahead" luminaire design by introducing the next generation of LED green technology with energy savings of up to fifty percent over traditional light sources, and LED lamp life well beyond 10 years of operations. The Roadway LX housing and door are die cast aluminum with integral heat sink, making the entire housing part of the thermal management solution for long life of the LEDs and driver(s). The fixture is easily and securely mounted with four bolt mounting to 1 1/4" to 2 3/8" diameter mast arms and supplied with a terminal block for easy power connection and a universal bubble level for ease of leveling. A 10 kV surge protector is supplied as standard. Maintenance, when required, is tool-less; with stainless steel pinch latches; accessing a removable power tray door holding the LED driver. LEDs and driver compartment are both IP65 rated. Choose from 32 to 80 LEDs with multiple drive currents of 350 or 530, mA; 590 nm diode supplied as standard and seven (7) optical distribution patterns for complete design flexibility for street and roadway lighting. Consider the **Roadway LX** series, the new standard for roadway and street lighting, bringing LED technology with long life and low maintenance to your world.

Ordering Information

MODEL	OPTICS	LEDs	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
RLX-1	T1 Type 1	32LC	3 350mA	TS 590 nm	UNV 120-277V	MAF Mast Arm Fitter	BZ Bronze	PCR-120 Photocell & Receptacle	WSC-8 Motion Sensor 8' Mounting Height
	T2 Type 2	48LC	5 530mA		8 347V		BK Black	PCR-208 Photocell & Receptacle	WSC-20 Motion Sensor 9-20' Mounting Height
	T3 Type 3	64LC			5 480V		SBK Smooth Black	PCR-240 Photocell & Receptacle	WSC-40 Motion Sensor 21-40' Mounting Height
	T4 Type 4	80LC					WH White	PCR-277 Photocell & Receptacle	DIM 0-10v Dimming Driver
	T4A Type 4 Automotive						SWH Smooth White	PCR-480 Photocell & Receptacle	VWC Visionaire Wireless Controls Consult Factory
	T5 Type 5						GP Graphite	PER 3 Pin Photo Receptacle w/shorting cap	ROT-R Rotated Optics Right Side
	T5W Type 5 Wide						GY Grey	5PINPER 5 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	ROT-L Rotated Optics Left Side
	T5WR Type 5 Wide Round						SL Silver Metallic	7PINPER 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	LS Light Shield
							CC Custom Color		

Housing

- The Roadway LX housing is constructed from durable, corrosion resistant, die cast aluminum. The integral heat sink is cast as part of the fixture housing.
- The electrical compartment is separated from the LED array/heat sink structure, and sealed allowing for IP 65 rating of the complete fixture.
- A molded silicone grommet seals the incoming power leads.
- Supplied with a bubble level for ease of mounting alignment, and a terminal block for easy power connection.

Door Assembly

- The removable die cast aluminum door assembly is sealed with a one-piece silicone gasket. Access to the electrical compartment is tool-less, with sealed, stainless steel pinch latches, making the Roadway LX very user friendly.
- The LED driver(s) are mounted directly to the door assembly, and supplied with quick disconnects for ease of installation and maintenance.

Thermal Management

- The housing includes the integral heat sink making the entire housing part of the thermal management solution.
- The Roadway LX is suitable for higher ambient temperatures and drive currents without degrading lamp life.

Optical System

- The highest lumen output field-changeable LEDs are utilized in the Roadway LX series.
- The Type 3 injection molded Roadway optic is designed specifically for roadway applications.
- Additional distribution types include Types I, II, III, IV IVA, V and VW.
- The optical system qualifies at IES full cutoff to restrict light trespass, glare and light pollution for neighborhood friendly lighting.
- Roadway LX fixture is tested in accordance with IESNA LM-79 testing procedures.
- 590 nm diode supplied as standard.

Quali-Guard Finish

- Fixture components are chemically pretreated through a multi stage wash system. The finish is an electrostatically applied, thermoset super polyester powder coat paint which is oven-baked at 400 °F for maximum adherence and finish hardness.
- Available in Silver Metallic finish and custom colors.
- The finish is guaranteed for five (5) years.

Mounting

- The Roadway LX mounts directly to roadway mast arms and tenons with an outside diameter ranging from 1 1/4" to 2 3/8" and is adjustable in three incremental positions (0°, 2 1/2° and 5°).
- An internal four-bolt clamp bracket attaches the fixture securely to the mounting arm with four stainless steel bolts.

Electrical Assembly

- The Roadway LX Series is supplied with a choice of 350 or 530 mA high-performance LED drivers that accept 120 V thru 480 V, 50 Hz to 60 Hz, input.
- Power factor of 95%.
- Rated for -40 °C operations.
- 10 kV surge protector supplied as standard.

Warranty

Five (5) year Limited Warranty on entire system including the paint finish and LED components. For complete Limited Warranty information please visit VisionaireLighting.com.

Options

- Photocell & Receptacle
- Photocell receptacle
- Utility wattage label
- Dimming/Controls
- 0-10 V dimming driver

Listings

- Roadway LX Series is ETL listed, suitable for wet locations.
- LM79 and LM80
- Meets ANSI C136.31-2001 vibration standards.
- RoHS compliant
- IP65 Rated
- Powder Coated Tough™
- IDA Certification
- Turtle Safe
- Certified Wildlife Lighting



The Wildlife Lighting Program was developed by the Department of the Interior's U.S. Fish and Wildlife Service and the Florida Fish and Wildlife Conservation Commission to address light pollution issues in ecologically sensitive areas while ensuring human safety and security.

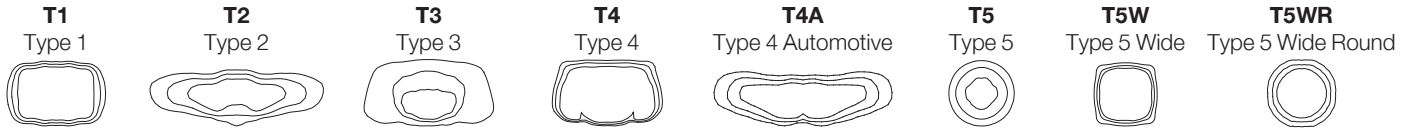


Motion Sensor Default Setting

Type	High Mode	Low Mode	Time Delay	Cut off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Min	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Min	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

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Photometric Optical Summary



EPA Data				
	.85	1.7	2.1	2.1

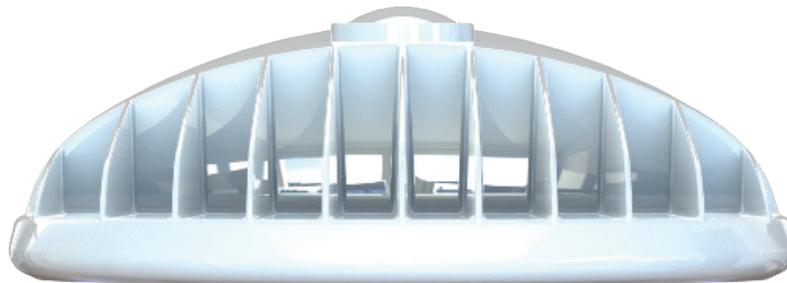
Dimensions

Width: RLX-1 14"

Height: RLX-1 4"

Depth: RLX-1 31"

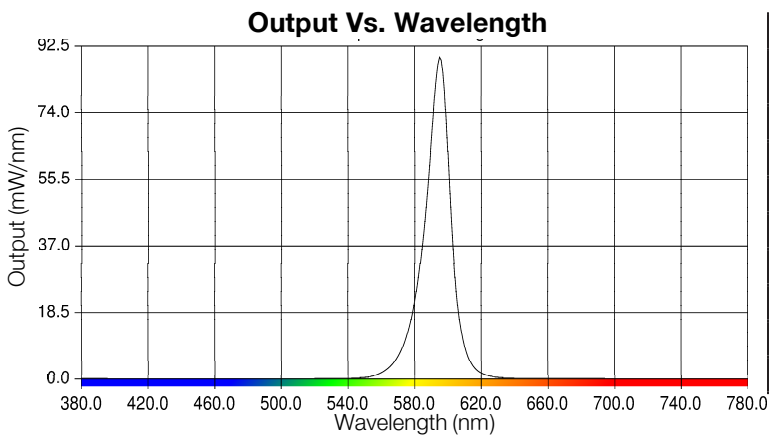
Weight: 31 LBS



RLX-I Wildlife Certified TS (590 nm) LUMEN DATA										
# LEDs	Current (mA)	T1	T2	T3	T4	T4A	T5	T5W	T5WR	Watts
32	350	1039	984	985	935	1043	1030	1002	1017	34
	530	1539	1458	1458	1385	1544	1526	1484	1506	53
48	350	1547	1466	1466	1393	1553	1534	1492	1515	51
	530	2208	2092	2093	1988	2216	2189	2129	2161	80
64	350	2041	1934	1934	1837	2048	2023	1968	1998	70
	530	2889	2737	2738	2601	2899	2864	2784	2826	107
80	350	2464	2335	2335	2218	2473	2443	2376	2412	85
	530	3531	3345	3346	3178	3543	3500	3405	3456	133

RLX-I Wildlife Certified TS (590 nm) LPW DATA										
# LEDs	Current (mA)	T1	T2	T3	T4	T4A	T5	T5W	T5WR	Watts
32	350	31	29	29	28	31	30	29	30	34
	530	29	28	28	26	29	29	28	28	53
48	350	30	29	29	27	30	30	29	30	51
	530	28	26	26	25	28	27	27	27	80
64	350	29	28	28	26	29	29	28	29	70
	530	27	26	26	24	27	27	26	26	107
80	350	29	27	27	26	29	29	28	28	85
	530	27	25	25	24	27	26	26	26	133

RLX-1 Wildlife Certified TS (590 nm) BUG DATA																										
# LEDs	Current (mA)	T1			T2			T3			T4			T4A			T5			T5W			T5WR			Watts
		B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G				
32	350	1	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	34
	530	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	0	1	0	0	1	0	0	53
48	350	1	0	1	1	0	1	0	0	1	0	0	1	0	0	1	1	0	0	1	0	0	1	0	0	51
	530	1	0	1	1	0	1	0	0	1	1	0	1	1	0	1	1	0	0	1	0	1	1	0	1	80
64	350	1	0	1	1	0	1	0	0	1	1	0	1	1	0	1	1	0	0	1	0	1	1	0	1	70
	530	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2	0	1	107
80	350	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2	0	1	85
	530	2	0	1	1	0	1	1	0	1	1	0	1	1	0	1	2	0	1	2	0	1	2	0	1	133



RLX-1 Wildlife Certified - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
RLX-1-T5W-32LC-3	34	0.28	0.16	0.14	0.12	0.10	0.07
RLX-1-T5W-32LC-5	53	0.44	0.25	0.22	0.19	0.15	0.11
RLX-1-T5W-48LC-3	51	0.43	0.25	0.21	0.18	0.15	0.11
RLX-1-T5W-48LC-5	80	0.67	0.38	0.33	0.29	0.23	0.17
RLX-1-T5W-64LC-3	70	0.58	0.34	0.29	0.25	0.20	0.15
RLX-1-T5W-64LC-5	107	0.89	0.51	0.45	0.39	0.31	0.22
RLX-1-T5W-80LC-3	85	0.71	0.41	0.35	0.31	0.24	0.18
RLX-1-T5W-80LC-5	133	1.11	0.64	0.55	0.48	0.38	0.28