



ROADWAY LX

LED



ODEN

LED - IND



LPS ROADWAY

LPS



MISSION BELL

LED

# ROADWAY

## Roadway : The Evolution Of Design And Efficiency

The evolution of LED roadway lighting really brings our Roadway lighting products into the 21st Century with an exciting array of options for cities and municipalities. The cobra heads of old have met their match with the new low-wattage, high-efficiency source that can be utilized with our new optical systems for exceptional performance and reduced energy consumption. Fixtures can now be Dark-Sky friendly and provide controlled lighting, while utilizing less energy and lasting longer. LED offerings may extend life expectancy to well over 100,000 hours of operation; which is the equivalent of over 18 years of life.

## Introducing the new Visionaire "Roadway LX " Series

Visionaire's new Roadway LX Series is available with up to 80 LEDs; with 5 different optical distribution patterns for Roadway applications; die cast aluminum construction, tool less entry; and all of the other standard roadway features; with a design that is contemporary and timeless.

Lamp Life of over 100,000 hours; available with a new Visionaire control system; an assortment of mounting brackets and poles; our new LED Roadway LX fixture is LEDing the way for the new era of roadway lighting.

## Roadway LED Advantages

The LED Advantages over traditional HID Cobra Head lighting is as simple as generally less than half the energy usage ; and up to 5 times the lamp life of HPS lamps. Control systems can further increase the energy savings as well as the increased life cycle of the lamps; further reducing the maintenance costs of the system.



ROADWAY LX

LED

# Roadway LX™ LED

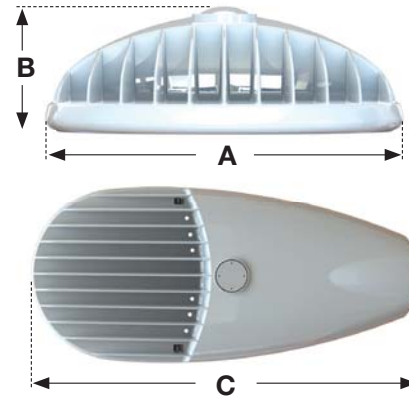
Project Name:

Catalog Number:

Type



## Dimensional Drawings



Fixture	A	B	C	Max. LEDs	Lbs
RLX-1	14"	4"	31"	80	24

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, which is supplied with quick electrical disconnects. LEDs and driver compartment are both IP66 rated.

Choose from 16 to 80 LEDs with multiple drive currents of 350, 530, and 700 mA; 4000 or 5500 Kelvin, and five (5) 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.

ROADWAY

Model	Optics	Source	Milliamps	Kelvin	Voltage	Mounting	Finish	Options
RLX-1	Type I (T1)	# of LEDs	mA	4000K *Neutral white (4K)	120-277 *Universal voltage (UNV)	Mast Arm Fitter (MAF)	Silver Metallic (SL)	<b>Photocell &amp; Receptacle</b> <small>*Specify voltage</small> <b>(PCR120) (PCR208)</b> <b>(PCR240) (PCR277)</b> <b>Photo Receptacle (PER)</b> <small>*With shorting cap</small> <b>Utility Wattage Label</b> <small>*Consult factory</small> <b>Dimming/Controls</b> <small>*Consult factory</small> <b>0-10v Dimming Driver</b> <small>No Controls (DIM)</small>
		16 (16LC)	350 (3)					
	Type II (T2)	32 (32LC)	530 (5)	5500K *Cool white (55K)	480 (5)			
	Type III (T3)	48 (48LC)	700 (7)		347 (8)			
	Type IV (T4)	64 (64LC)						
Type V (T5)	80 (80LC)							

For more detailed information on mounting, wiring or installation instructions, please consult factory. If poles are not ordered with fixtures, please specify mounting requirements. This document contains proprietary information of Visionaire Lighting, LLC. Any use of this information requires the written approval of Visionaire Lighting, LLC. In keeping with our TQM policy of continuous improvement, Visionaire reserves the right to change any specifications contained herein without prior notice.



## Housing

Roadway LX housing is constructed from durable, corrosion resistant die cast aluminum. The integral heat sink is cast as part of the fixture housing. Weep holes are built into the fixture to allow for moisture drainage. The rounded, roadway fixture housing design integrates easily with other roadway luminaires.

## Door Assembly

Access to the electrical compartment is tool-less, with stainless steel pinch latches, making the Roadway LX very user friendly during installation and maintenance. The LED driver, terminal block and LED arrays mount directly to the housing and quick disconnects are used between the components and incoming leads.

## 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 Evo/C 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 and V. The optical system qualifies at IES full cutoff. The system is Dark-Sky certified to restrict light trespass, glare and light pollution for neighborhood friendly lighting.

CRI values are 70 for 4000K and 75 for 5500K. Roadway LX fixture is tested in accordance with IESNA LM-79 testing procedures.

## 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 to 700 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](http://VisionaireLighting.com).

## Options

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

## Listings

- Roadway LX Series is  listed, suitable for wet locations.
- LM79 and LM80.
- Meets ANSI C136.31-2001 vibration standards.
- RoHS compliant.
- Dark-Sky Friendly®, full cutoff certified by the International Dark-Sky Association.
- IP66 listed.
- Powder Coated Tough™ 



## EPA Data

Fixture Only	●
RLX-1	0.82

## LED Data Chart

# LEDs	Output mA	Type 1	Type 2	Type 3	Type 4	Type 5	System Watts
16	350	1,995	1,854	1,903	1,381	1,697	20
	530	2,387	2,208	1,840	2,015	2,130	27
	700	2,749	2,559	2,720	2,414	2,845	36
32	350	3,501	3,198	3,631	2,722	3,465	35
	530	4,877	4,734	3,762	3,718	4,245	51
	700	4,970	5,119	5,141	5,092	5,973	68
48	350	5,031	4,559	5,546	4,136	4,985	51
	530	6,984	6,382	5,609	5,838	6,361	75
	700	7,977	6,625	6,992	7,154	9,099	100
64	350	6,411	5,392	7,261	5,465	6,544	67
	530	8,884	8,159	7,562	7,253	8,477	99
	700	9,994	8,822	8,615	8,789	11,643	133
80	350	7,477	7,161	6,623	6,463	8,356	86
	530	10,370	9,975	9,102	9,071	11,592	126
	700	11,737	12,538	10,316	10,156	13,751	160

Visit [www.VisionaireLighting.com](http://www.VisionaireLighting.com) for up-to-the-minute chart information, including types not listed here.

\* For 4000K multiply values by 0.90

# Oden LED

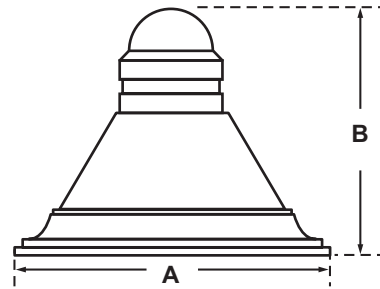
Project Name:

Catalog Number:

Type



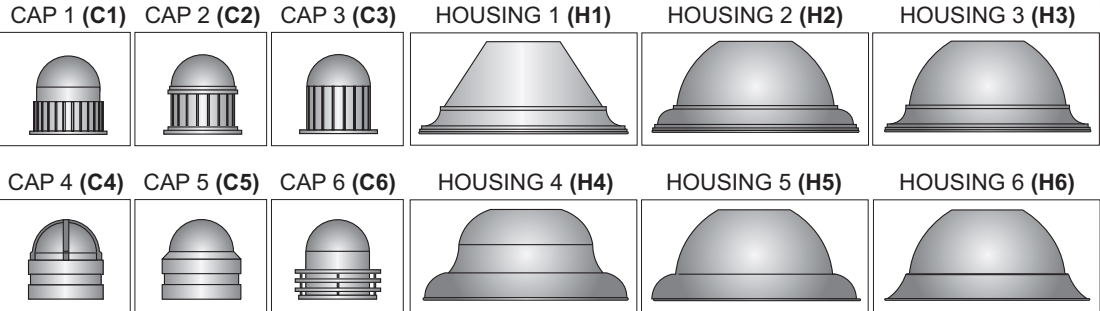
## Dimensional Drawings



Fixture	A	B	Max. Watts	Lbs
ODN-2-I	25"	22½"	165 W	55
ODN-3-I	30"	24"	165 W	75



With six interchangeable cap and spun shade styles, the **Oden-Roadway** offers endless possibilities for a custom fixture to fit their unique application. **Oden-Roadway's** high-quality, durable construction makes it an ideal fixture for municipal and city applications.



ROADWAY

Model	Optics	Source	Milliamps	Kelvin	Voltage	Mounting	Finish	Cap/Shade	Options	
ODN-2-L	Type I (T1)	# of LEDs 42 (42LC)	350 (3)	4000K *Neutral white (4K)	120-277 *Universal voltage (UNV)	Yoke Mount *Slips over 3"ØD tenon x 4" tall with special threaded mounting plate. (YM)	Bronze (BZ)	C1 (C1) C2 (C2) C3 (C3) C4 (C4) C5 (C5) C6 (C6)	Button Type Photocell *Specify voltage (PC120) (PC208) (PC240) (PC277)	
	Type II (T2)	84 (84LC)	530 (5)	5500K *Cool white (55K)	480 (5)		White (WH)			
ODN-3-L	Type III (T3)	42 (42LC)	LED - Light Emitting Diode		347 (8)	Arm Mount Large (AML) Wall Mount (WM)	Sandstone (SN)	H1 (H1) H2 (H2) H3 (H3) H4 (H4) H5 (H5) H6 (H6)	Fusing *Specify voltage Single in-line fuse (SF120) (SF277) Double in-line fuse (DF208) (DF240)	
	Type IV (T4)	84 (84LC)					Weathered Brown (WB)			Dual Circuit (DC)
	Type V (T5)						Silver Metallic (SL)			Cutoff Louver System (CLS)
	Type VW (T5W)						Verdigris (VD)			0-10 V Dimming Driver *No controls (DIM)
							Forest Green (FG)			10KV Surge Protector (10KV)
		Custom Color (CC)								

\*Input selection from this column in the form of: C1-H1

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**Housing**

- High-quality, one-piece spun aluminum shade and durable cast aluminum top cap; available in two housing sizes.
- All external hardware is stainless steel.
- One-piece, cast-aluminum door assembly with tool-less access.

**Thermal Management**

- The **Oden - LED** provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the **Oden - LED** to withstand higher ambient temperatures and higher drive currents without degrading LED life.

**Optical System**

- The highest lumen output **Evo/C LED**s are utilized. Estimated life of the LEDs is 100,000+ hours. Available with six IES distribution patterns. Available with up to 84 LEDs. The optical system qualifies as IES full cutoff; and is Dark-Sky certified to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- CRI values are 70 for 4000K and 75 for 5500K.

**Quali-Guard® Finish**

- Fixture components are chemically pretreated through a multiple-stage washer and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 mils thickness. Finish is oven-baked at 400 °F for maximum adherence and finish hardness.
- Available in standard and custom colors.

**Mounting**

- **Oden - Roadway** can replace existing cobra head fixtures with a MAP-01 Mast Arm Fitter for mast arms.

**Electrical Assembly**

- The **Oden - LED** is supplied with a high-performance LED driver, that accepts 120 V thru 277 V, 50 Hz to 60 Hz input. Power factor is 90%. Rated for -40 °F operation.
- High-low system offers motion control or factory preset switching options. Consult factory for specific details.
- 3 kV surge protector supplied as standard.

**Warranty**

- Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit [VisionaireLighting.com](http://VisionaireLighting.com).

**Solar Panel Option**

- The **Oden** is compatible for use with Visionaire Lighting's Solar Panel Pole™.

**Options**

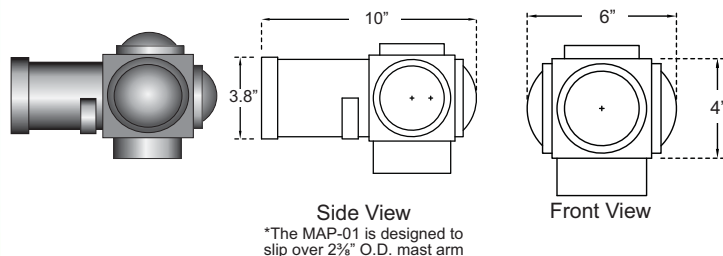
- Button type photocell
- Cutoff louver system
- Fusing
- High-low system
- Dual circuit
- 0-10 V dimming driver
- 10KV Surge Protector

Please consult factory for detailed custom options.

**Listings**

- **Oden** is  listed, suitable for wet locations.
- Dark-Sky Friendly® certified by the International Dark-Sky Association.
- RoHS compliant.
- IP65.
- LM79.
- LM80.
- Powder Coated Tough™ 

**MAP-01 Mast Arm Fitter Dimensions**



**EPA Data**

Fixture	Fixture only	One Fixture w/ TNS101-S1	Two Fixtures w/ TNS101-D2
ODN-2-L	2.6	4.1	7.4
ODN-3-L	3.5	5.0	9.2

**Typical Mounting Arms**



**LED Data Chart for 5500K\***

# Bars	# LEDs	Output mA	Type 1	Type 2	Type 3	Type 4	Type 5	Type 5-W	System Watts	L70 Hours
1	42	350	3,840	3,941	3,754	3,811	3,988	4,140	46	150,000
		530	4,647	5,132	4,925	4,855	5,410	5,644	68	100,000
2	84	350	7,507	7,883	6,663	7,320	7,976	8,280	92	150,000
		530	9,155	10,265	9,988	9,710	10,820	11,288	136	100,000

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\* For 4000K multiply values by 0.90

# Oden IND

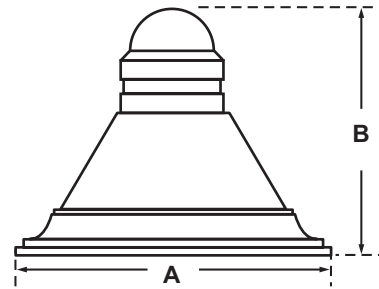
Project Name:

Catalog Number:

Type



## Dimensional Drawings



Fixture	A	B	Max. Watts	Lbs
ODN-2-I	25"	22½"	165 W	55
ODN-3-I	30"	24"	165 W	75



With six interchangeable cap and spun shade styles, the **Oden-Roadway** offers endless possibilities for a custom fixture to fit their unique application. **Oden-Roadway's** high-quality, durable construction makes it an ideal fixture for any application.

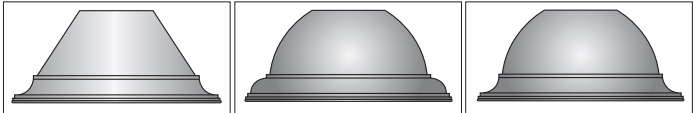
CAP 1 (C1) CAP 2 (C2) CAP 3 (C3)



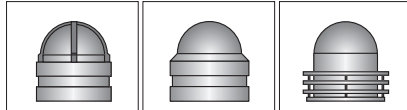
HOUSING 1 (H1)

HOUSING 2 (H2)

HOUSING 3 (H3)



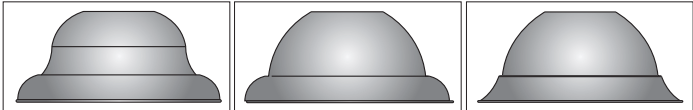
CAP 4 (C4) CAP 5 (C5) CAP 6 (C6)



HOUSING 4 (H4)

HOUSING 5 (H5)

HOUSING 6 (H6)



Model	Optics	Wattage	Kelvin	Source	Voltage	Mounting	Finish	Cap/Shade	Options
ODN-2-I	Type II (T2) 	Globes	3000K (3K)	IND (IND)	120 (1)	Mast Arm Fitter <small>*Designed to slip over 2 3/4" O.D. mast arm</small> (MAP-01)	Bronze (BZ)	C1 (C1)	Photocell & Receptacle <small>*Specify voltage</small> (PCR120) (PCR208) (PCR240) (PCR277)
		55G (55G)	208 (2)		Black (BK)		C2 (C2)		
	85G (85G)	240 (3)	White (WH)		C3 (C3)				
	Type III (T3) 	165G (165G)	5000K (5K)	277 (4)	Sandstone (SN)	C4 (C4)	Photocell Receptacle <small>*w/ shorting cap</small> (PER)		
ODN-3-I	Type V (T5) 	Tubes			480		Weathered Brown (WB)	C5 (C5)	Internal Light Shield (ILS)
		70T (70T)		347	Silver Metallic (SL)		C6 (C6)		
		100T (100T)		<small>*Includes step-down transformer</small> (5)	Verdigris (VD)		H1 (H1)		
		150T (150T)		<small>*Includes step-down transformer</small> (8)	Forest Green (GN)		H2 (H2)		
						Custom Color (CC)	H3 (H3)		
								H4 (H4)	
								H5 (H5)	
								H6 (H6)	

IND - Induction

\*Input selection from this column in the form of: C1-H1

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**Housing**

- High-quality, one-piece aluminum shade, and durable, cast aluminum top cap, available in two housing sizes.
- All external hardware is stainless steel.

**Lens and Door Assembly**

- One-piece, cast-aluminum, door assembly with tool-less access.
- Lens is clear, tempered flat glass, secured by galvanized lens retainers; fully gasketed, with a form-fitting, one-piece premium extruded silicone gasket to provide complete weather and insect protection.

**Vision™ Optical System**

- High-performance vertical lamp, multifaceted, full cutoff, segmented, 95% reflectance anodized aluminum reflectors. Computer numerical control (CNC) cut and bent for manufacturing precision and consistency. Available in three IES distribution patterns. Field rotatable reflector (except Type V).
- Tool-less reflector entry.
- Lamp life expectancy is expected to be over twenty plus (20+) years (100,000 hours).

**Quali-Guard® Finish**

- Fixture components are chemically pretreated through a multiple stage washer and finished with an electrostatically applied, thermoset polyester powder coat textured paint with a 3 to 5 mils thickness. Finish is oven baked at 400 °F for maximum adherence and finish hardness. Available in standard and custom colors. Finish is guaranteed for two (2) years.

**Mounting**

- **Oden - Roadway** can replace existing cobra head fixtures with a MAP-01 Mast Arm Fitter for mast arms.

**Electrical Assembly**

- Supplied with generator that accepts 120 V thru 277 V, 50 Hz to 60 Hz, input. Power factor of 90%. Rated for -20 °F operations.
- Generator mounted to removable tray.
- Modular Quick Disconnect supplied to the lamp for ease of installation and maintenance.

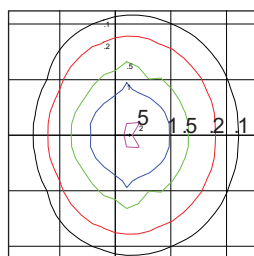
**Options**

- Photocell & receptacle (located in mast arm fitter).
- Photocell receptacle
- Internal light shield.

**Listings**

- **Oden - Roadway** is  listed, suitable for wet locations.
- Dark-Sky Friendly® certified by the International Dark-Sky Association.
- Powder Coated Tough™ 
- Vision™ Reflector System (U.S. Patent No. 7,213,948).

**Isolux Curve**

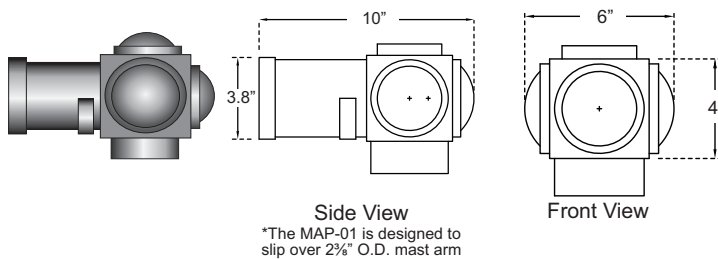


**ODEN-3 ISOLUX CURVE**  
 TYPE IIIIR  
 INDUCTION OPTICS  
 100 WATTS  
 Scale: 1 Square = 28 ft  
 Initial Light Loss Factor = 1.00  
 Mounting Height = 28 ft  
 Arm Length = 6 ft  
 Arrangement: Single

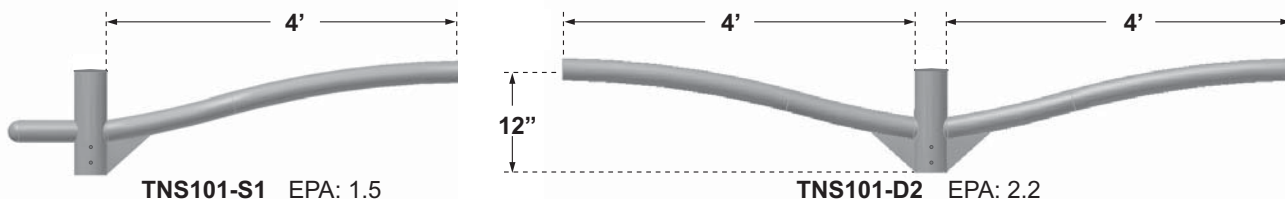
**EPA Data**

Fixture	Fixture only	One Fixture w/ TNS101-S1	Two Fixtures w/ TNS101-D2
ODN-2-I	2.6	4.1	7.4
ODN-3-I	3.5	5.0	9.2

**MAP-01 Mast Arm Fitter Dimensions**



**Typical Mounting Arms**





# LPS Roadway LPS

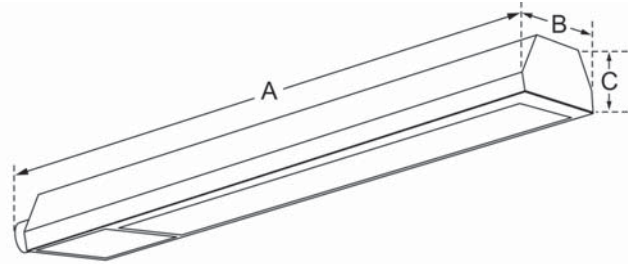
Project Name:

Catalog Number:

Type



## Dimensional Drawings



Fixture	A	B	C	Max. Watts	Lbs
RDW-1	34"	9½"	5½"	55 W	34
RDW-2	39"	9½"	5½"	90 W	36
RDW-3	63"	9½"	5½"	180 W	40


The **LPS - Roadway** series is designed to maximize the benefits of highly-efficient Low Pressure Sodium lamps with unmatched lumens per watt. Eliminates glare with IES full cutoff optics and provides an easy-maintenance roadway luminaire that meets the most stringent municipal requirements.

**LPS - Roadway** is available in three sizes, and in wattages from 55 through 180. Mounting and maintenance are both user-friendly. A cast aluminum arm adaptor attaches the luminaire to the mast arm. Tool-less latches open the fixture housing for easy access to the lamp and the ballast which can be mounted on a removable ballast tray.

A durable thermoset polyester powder coat textured grey finish is supplied as standard and guaranteed for two (2) years.

Low Pressure Sodium lighting is the community standard for a number of areas where observatories are located. The International Dark Sky community also favors the use of this light source for all types of outdoor lighting. Street lighting, roadways, bridges, and general area lighting can all utilize the **LPS - Roadway** fixture to minimize light pollution.

ROADWAY

Model	Optics	Wattage	Source	Voltage	Mounting	Finish	Options
RDW-1	Type III (T3) 	55 (55)	LPS (L)	120 (1)	Mast Arm Fitter *Slips over 2½" O.D. (MAF)	Grey (GY)  Custom Color (CC)	<u>Photocell &amp; Receptacle</u> <small>*Specify voltage</small> (PCR120) (PCR208) (PCR240) (PCR277) (PCR480)  Photocell Receptacle <small>*With shorting cap, uninstalled</small> (PER)  Terminal Block (TB)  House Side Light Shield (LS)  Removable Ballast Tray <small>*Comes standard with Quick Disconnects and Terminal Block.</small> (RBT)
				208 (2)			
				240 (3)			
				277 (4)			
RDW-2		90 (90)		480 (5)			
				347 (8)			
RDW-3		135 (135)  180 (180)					

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## Housing

- **LPS - Roadway** is precision CNC sheared and formed aluminum. Door assembly offers integral latches for tool-less access. Three housing sizes for different wattages.
- All hardware is rust resistant stainless steel.

## Lens and Door Assembly

- Hinged door frame is fully gasketed. A one-piece extruded silicone gasket seals the door frame against the housing.
- The lens is clear, impact-resistant Lexan, secured with galvanized lens retainers, and sealed with form fitting silicone gasketing.

## Optical System

- Reflector is precision CNC cut and bent, multifaceted, segmented, 95% reflective aluminum for IES Type IIIIR light distribution designed to maximize light spread.

## Quali-Guard® Finish

- The finish is a Quali-Guard® textured, chemically pretreated through a multiple stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 millimeter thickness. Finish is oven-baked at 400 °F to promote maximum adherence and finish hardness. All finishes are available in standard and custom colors.
- Finish is guaranteed for two (2) years.

## Mounting

- Fixture fits over a 2<sup>3/8</sup>" fitter, and comes standard with ring gasket inside the mast arm fitter and utilizes six stainless steel 3/8" hex head set bolts to secure the fixture to the mast arm.

## Electrical Assembly


- All ballasts are premium-grade HPF high reactance auto transformer, factory wired and tapped to voltage requirement.
- LPS lamps from 55 through 180 watts, providing high lumens per watt, superior energy efficiency, and quick restrike.
- Removable ballast tray option comes standard with quick disconnects and terminal block.

## Options

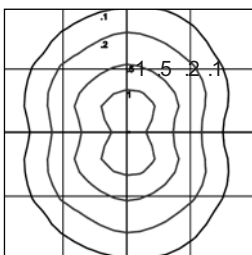
- Photocell & Receptacle
- Photocell Receptacle
- Terminal block.
- House side light shield.
- Removable ballast tray.

Please consult factory for custom options.

## Listings

- **LPS - Roadway** is  listed, suitable for wet locations.
- Dark-Sky Friendly® certified by the International Dark-Sky Association.

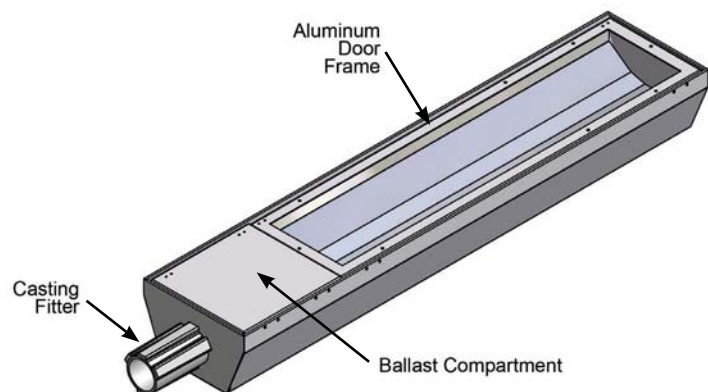
## Isolux Curve




**LPS-ROADWAY**  
TYPE IIIIR  
LPS OPTICS  
90 WATTS

Scale: 1 Square = 33 ft  
Light Loss Factor = 1.00  
Mounting Height = 33 ft  
Arrangement: Single

## Mounting Detail



## EPA Data

Fixture with Arm	
RDW-1	1.3
RDW-2	1.5
RDW-3	2.4

# Mission Bell LED

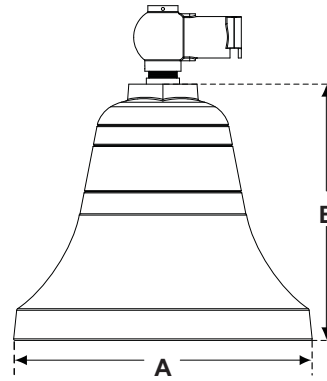
Project Name:

Catalog Number:

Type



## Dimensional Drawings



Fixture	A	B	Max. LEDs	Lbs
MBL-1-L	24 3/4"	21 1/4"	84	64

Visionaire Lighting has modernized a classic. Our **Mission Bell** roadway LED fixture embeds the latest LED technology into a traditional, historical design that harkens back to the turn-of-the-century El Camino Real Mission Bell fixtures found in seaside communities.

The precision-engineered **Mission Bell** LED housing is of two-part construction, with the upper half of the bell formed in cast aluminum, and the lower half completed in spun aluminum. Fixture features a high-quality, long lasting, durable powder coat finish in a variety of colors

This **Mission Bell** offers ease of use and years of trouble-free operation; eliminating costly maintenance fees by employing energy-efficient LED lighting. Cutting edge LED optics allow for the use of fewer fixtures at lower wattages and wider pole spacings – to illuminate roadways with excellent uniformity. Type I, II, III, IV and V optical patterns are offered; in color temperature of 4,000 Kelvin or 5,500.

For economical street beautification projects, the **Mission Bell** easily replaces cobra head fixtures using the MAP-02-PER mast arm fitter with built-in receptacle and shorting cap (ready-made to receive an optional, twist-lock photocell). It is Dark-Sky certified to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.

The **Mission Bell** is an ideal choice for street and municipal lighting projects; pedestrian applications, and city and urban centers.

ROADWAY

Model	Optics	Source	Milliamps	Kelvin	Voltage	Mounting	Finish	Options
MBL-1-L	Type I (T1) 	# of LEDs 42 (42LC)	mA 350 (3)	4000K *Neutral White (4K)	120-277 *Universal voltage (UNV)	Mast Arm Fitter *Designed to slip over 2 1/2" O.D. mast arm. Includes receptacle and shorting cap, for optional twist-lock photocell. (MAP-02-PER)	Bronze (BZ)	Twist-Lock Photocell *Specify voltage (PCR120) (PCR208) (PCR240) (PCR277) (PCR480)
	Type II (T2) 	84 (84LC)	530 (5)	5500K *Cool White (55K)	White (WH)		Fusing *Specify voltage Single in-line fuse (SF120) (SF277) Double in-line fuse (DF208) (DF240)	
	Type III (T3) 				Sandstone (SN)		Dual Circuit (DC)	
	Type IV (T4) 				Weathered Brown (WB)		0-10 V Dimming Driver *No controls (DIM)	
	Type V (T5) 				Silver Metallic (SL)		10KV Surge Protector (10KV)	
							Verdigris (VD)	
							Forest Green (FG)	
							Custom Color (CC)	

LED - Light Emitting Diode

For more detailed information on mounting, wiring or installation instructions, please consult factory. If poles are not ordered with fixtures, please specify mounting requirements. This document contains proprietary information of Visionaire Lighting, LLC. Any use of this information requires the written approval of Visionaire Lighting, LLC. In keeping with our TQM policy of continuous improvement, Visionaire reserves the right to change any specifications contained herein without prior notice.



# Mission Bell LED

## Housing

• The **Mission Bell** LED is of two-part construction, with the upper half of the housing formed in cast aluminum, and the lower half completed in spun aluminum.

## Thermal Management

• The **Mission Bell** provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the **Mission Bell** to withstand higher ambient temperatures and higher drive currents without degradation of LED life.

## Optical System

• The highest lumen output **Evo/C LEDs** available are utilized. Estimated life of the LEDs is 100,000+ hours. IES Type I, II, III, IV and Type V distributions are standard. Available with either 42 or 84 LEDs, the optical system qualifies as IES full cutoff; and is Dark-Sky certified to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.  
• CRI values are 70 for 4000K and 75 for 5500K.

## Quali-Guard® Finish

• Fixture components are chemically pretreated through a multiple-stage washer and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 mils thickness. Finish is oven-baked at 400 °F for maximum adherence and finish hardness.  
• Available in standard and custom colors.

## Mounting

• The **Mission Bell** is provided with a cast aluminum arm adaptor designed to slip fit over a 2 $\frac{3}{8}$ " horizontal tenon (mast arm) and is adjustable +/- 5 degrees for fixture leveling. An internal clamping device provides a secure, U-bolt attachment to the mast arm, eliminating the need to drill for thru-bolt attachment.

## Electrical Assembly

• The **Mission Bell** is supplied with a high-performance LED driver, located in its housing, that accepts 120 V thru 277 V, 50 Hz to 60 Hz input. Power factor is 90%. Rated for -40 °F operation.  
• 2 kV surge protector supplied as standard.

## Warranty

• Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit [VisionaireLighting.com](http://VisionaireLighting.com).

## Options

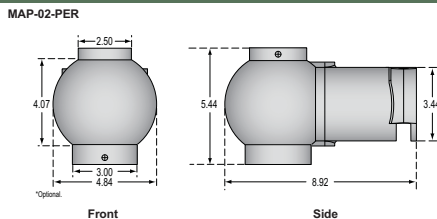
- Twist-lock photocell
- Fusing
- Dual circuit
- 0-10 V dimming driver
- 10KV Surge Protector

Please consult factory for detailed custom options.

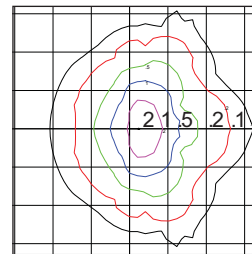
## Listings

- **Mission Bell** is  listed, suitable for wet locations.
- Dark-Sky Friendly® certified by the International Dark-Sky Association.
- RoHS compliant.
- LM79.
- LM80.
- Powder Coated Tough™ 

## Mast Arm Fitter Detail



## Isolux Curve



**MISSION BELL-1**  
ISOLUX CURVE  
TYPE III  
LED OPTICS  
84 LEDs @ 530 mA

Scale: 1 Square = 28 ft  
Light Loss Factor = 1.00  
Mounting Height = 28 ft  
Arm Length = 4 ft  
Arrangement: Single

## EPA Data

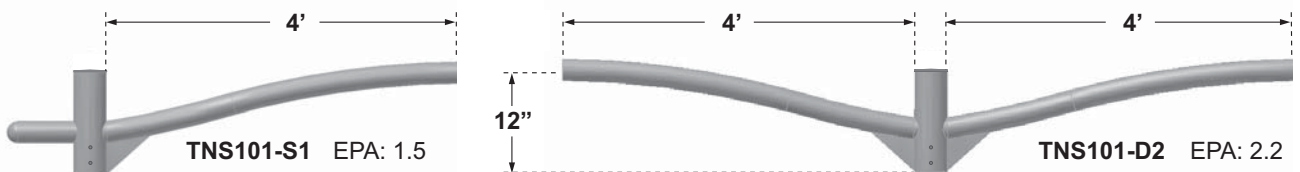
**Fixture Only**

**MBL-1-L**



2.5

## Typical Mounting Arms



## LED Data Chart for 5500K\*

# Bars	# LEDs	Output mA	Type 1	Type 2	Type 3	Type 4	Type 5	Type 5-W	System Watts	L70 Hours
1	42	350	3,840	3,941	3,754	3,811	3,988	4,140	46	150,000
		530	4,647	5,132	4,925	4,855	5,410	5,644	68	100,000
2	84	350	7,507	7,883	6,663	7,320	7,976	8,280	92	150,000
		530	9,155	10,265	9,988	9,710	10,820	11,288	136	100,000

Visit [www.VisionaireLighting.com](http://www.VisionaireLighting.com) for up-to-the-minute chart information, including types not listed here.

\* For 4000K multiply values by 0.90

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