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# **EVI Series Explosionproof Incandescent Luminaires**

### Factory Sealed 100–500W Medium and Mogul Base

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 & 2, Group IIB Cl. II, Groups E, F, G (Max 150W-Med. base)

CI. III & Simultaneous Presence (Max 150W–Med. base) Marine and Wet Locations Type 4X; IP66

#### **Applications:**

EVI series incandescent luminaires are used:

- For Type 4X, marine, wet location and hose down environments.
- Where a consistent light level relatively unaffected by extremes in ambient temperature (-40°C to +65°C) is required.
- In areas that require lamps to reach full illumination immediately.
- In areas that require lamps to be frequently turned on and off.
- Indoors and outdoors in locations which are hazardous due to the presence of flammable vapors or gases, ignitible dusts, or ignitible fibers and flyings.
- Where a luminaire is required for tough environmental conditions involving corrosives, water, dust and extreme temperatures.
- Manufacturing plants, heavy industrial facilities, industrial process facilities such as refineries, chemical, petrochemical, pharmaceutical and platforms.
- For lighting of loading docks, tunnels, stairways, storage closets and task lighting.

#### **Features:**

- Ambient suitability to 65°C.
- Standard 90°C rated building wire for 150W max 40°C ambient application – represents more than 75% of all applications.
- Type 4X, marine outdoor locations.
- Factory sealed no external seals required.
- Quick connect fixture threads onto the mounting module for easy installation.
- One size luminaire for all medium base incandescent lamps through 300W.
- One size luminaire for all mogul base incandescent lamps through 500W.
- Small compact size ceiling mount is 13<sup>3</sup>/<sub>4</sub>" long.
- Shock absorbing receptacle.
- Easy to assemble and relamp.
- · Silicone gaskets seal out dirt and moisture.
- Epoxy powder coat for corrosion resistance.
- Same mounting modules as used with the EVM and EVLP series.

# Certifications and Compliances:

NEC & CEC:

Class I, Division 1, Groups C, D
Class I, Zone 1, Group IIB
Class II, Groups E, F, G
Marine Locations, Wet Locations, Enclosure
Type 4X, IP66

- UL Listed
- · cUL Listed (Certified by UL to CSA Standards)
- NFC:

Class III; Simultaneous Presence

UL Standards:

844 Electric Fixture Hangers for Hazardous Locations

1598 Luminaires

1598A Luminaires for Installation on Marine Vessels

 CSA Standards: C22.2 No. 137

#### **Standard Materials:**

- Body, mounting modules and guard copper-free aluminum
- Globe heat and impact-resistant glass
- · Gaskets silicone
- External hardware stainless steel
- Reflectors Krydon® fiberglass-reinforced polyester

#### **Standard Finishes:**

- Copper-free aluminum Corro-free<sup>™</sup> epoxy powder coat
- Stainless steel Natural
- Krydon® reflectors High reflectance white

#### **Electrical Ratings:**

#### Sources/Wattages

- Medium Base Maximum 300W (PS25)
- Mogul Base Maximum 500W (PS40)

#### Voltages

- Medium Base 120V (250V with suffix /250)
- Mogul Base 277V

#### **Hub Size**

- 3/4" or 1" NPT pendant, ceiling, wall mount
- 3/4" NPT bulkhead mount

#### **Options:**

#### Description

Suffix

 250V luminaire for export applications (medium base only)

/250

#### **Accessories:**

 Reflectors – For Ordering by Components see page 883.



#### **EVI Series Explosionproof 1L Incandescent Luminaires**

**Factory Sealed** 100-500W Medium and Mogul Base

Cl. I, Div. 1, Groups C, D Cl. I, Zone 1 & 2, Group IIB (Max 150W-Med. base) Cl. II, Groups E, F, G (Max 150W-Med. base)

Cl. III & Simultaneous Presence Marine and Wet Locations Type 4X; IP66

Style	Mounting Style	Hub Size	EVI301 Series Medium Base with EV505 Guard (Max. 300W PS25)	EVI501 Series Mogul Base with EV503 Guard (Max. 500W PS40)
	Pendant Mount	3/4" 1"	EVIA2301 EVIA3301	EVIA2501 EVIA3501
	Ceiling Mount	%" 1"	EVICX2301 EVICX3301	EVICX2501 EVICX3501
	Wall Mount	%" 1"	EVIBX2301 EVIBX3301	EVIBX2501 EVIBX3501
	Bulkhead Mount	3/4" 1"	EVIBH2301 —	
	Stanchion Mount	11/4"	EVIJ4301	EVIJ4501
	Luminaire with Guard Less Mounting Module		EVI301	EVI501

Note: Medium base luminaires (EVI301 Series) – For A19 lamps up to 100W, use Leviton socket extension Leviton catalog number 2005.

Mogul base luminaires (EVI501 Series) – For PS30 medium base lamps, use Eaton's Wiring Devices socket adapter catalog number 332.

### **1L**

# **EVI Series Explosionproof Incandescent Luminaires**

# Factory Sealed 100–500W Medium and Mogul Base

#### EVI Luminaires are available in components.

A complete luminaire consists of:

- I. Mounting Module
- II. EVI Luminaire Body and Globe Assembly
- III. Guard, Reflector

#### I. Mounting Module:

Туре	Conduit	Cat. #
Pendant	³/₄" 1"	EVMP2 EVMP3
Ceiling and Wall Box	3/4" 1"	EV22 EV33
Wall Bracket Arm	3/4" 1"	EV22 & EV87 EV33 & EV87
Stanchion	11/4"	EVMJ4
Bulk Head	3/4"	EVIJ2

#### II. Luminaire Body and Globe Assembly with Guard:

Туре	Cat. #
Medium Base	EVI301
Mogul Base	EVI501

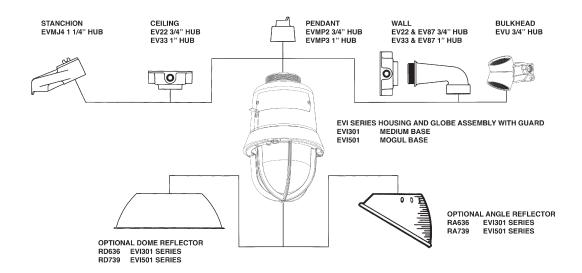
#### III. Guards and Reflectors:

Туре	Cat. #
Guard - Fits EVI301 Series (medium base)	EV505
Guard - Fits EVI501 Series (mogul base)	EV503
Dome Reflector – Fits EVI301 Series (medium base)	RD636
Angle Reflector - Fits EVI301 Series (medium base)	RA636
Dome Reflector – Fits EVI501 Series (mogul base)	RD739
Angle Reflector - Fits EVI501 Series (mogul base)	RA739

# 1L EVI Series Explosionproof Incandescent Luminaires

Family Tree Temperature Performance Data

Factory Sealed 100–500W Medium and Mogul Base



#### **Temperature Performance Data:**

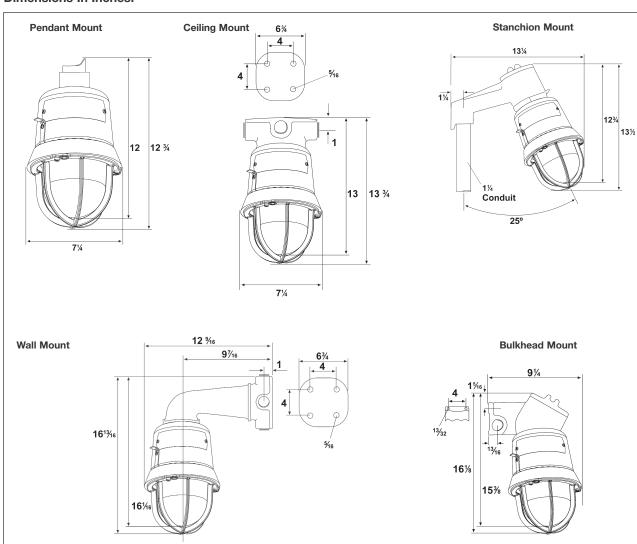
Туре			I, Div. 1 I, Zone 1	)	Class II	Simultaneous Presence	Supply Wire Temp (°C)						
	Watts/Lamp	Ambient			Ambient	Ambient	Ambient						
		40°C 55°C 65	65°C	40°C	40°C	40°C	55°C	65°C					
EVI301	100W/A21 or A19	T4	T3C	T3C	T3C	T3C	90°C	105°C	125°C				
Medium	150W/A21			T3C	T3C	90°C	105°C	125°C					
Base	200W/A23 or A25			_	_	105°C	125°C	125°C					
	300W/PS25	T3	T2D	T2C	_	_	105°C	125°C	125°C				
EVI501	200W/PS30	T4A	T4	T4	T3A	T3A	90°C	90°C	105°C				
Mogul	300W/PS35	T4	T3C T3C		_	_	90°C	90°C	105°C				
Rase	500W/PS40	T3A	T3	T3	_	_	105°C	125°C	125°C				

# **EVI Series Explosionproof Incandescent Luminaires**

# Factory Sealed 100–500W Medium and Mogul Base

# Medium Base EVI Luminaire

**Dimensions In Inches:** 



#### Medium Base Net Luminaire Weights (lbs.):

EVI301 with guard 11 lbs.

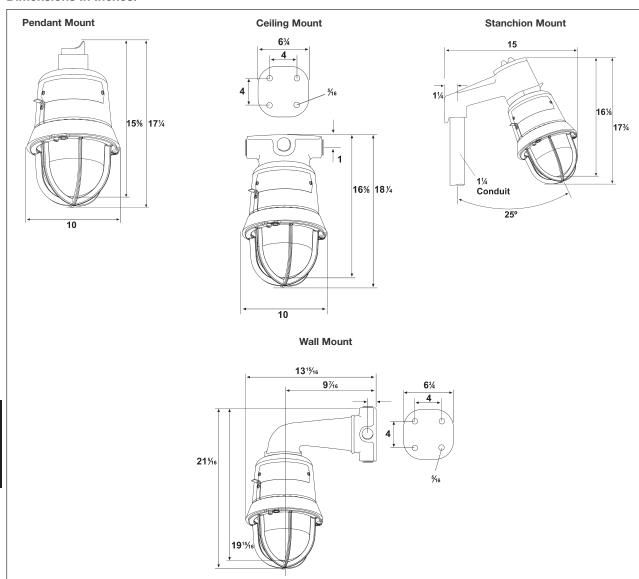
	Add for reflectors:	
1.0 lbs.	RD636 (Dome Reflector, Small)	1.5 lbs.
2.0 lbs.	RA636 (Angle Reflector, Small)	1.0 lbs.
4.5 lbs.	RD739 (Dome Reflector, Small)	2.0 lbs.
2.2 lbs.	RA739 (Angle Reflector, Small)	1.4 lbs.
2.5 lbs.		
	2.0 lbs. 4.5 lbs. 2.2 lbs.	1.0 lbs. RD636 (Dome Reflector, Small) 2.0 lbs. RA636 (Angle Reflector, Small) 4.5 lbs. RD739 (Dome Reflector, Small) 2.2 lbs. RA739 (Angle Reflector, Small)

# **1L**

# **EVI Series Explosionproof Incandescent Luminaires**

**Factory Sealed** 100-500W Medium and Mogul Base

# Mogul Base EVI Luminaire Dimensions In Inches:



## Mogul Base Net Luminaire Weights (lbs.):

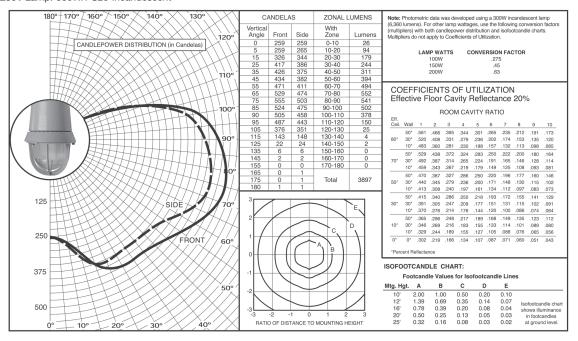
EVI501 with guard 24 lbs. Add mounting modules: Add for reflectors: RD636 (Dome Reflector, Small) RA636 (Angle Reflector, Small) RD739 (Dome Reflector, Small) Pendant 1.0 lbs. 1.5 lbs. Ceiling 2.0 lbs. 1.0 lbs. 4.5 lbs. Wall 2.0 lbs. Bulkhead RA739 (Angle Reflector, Small) 2.2 lbs. 1.4 lbs. Stanchion 2.5 lbs.

# **EVI Series Explosionproof Incandescent Luminaires**

Factory Sealed 100–500W Medium and Mogul Base

#### **Medium Base**

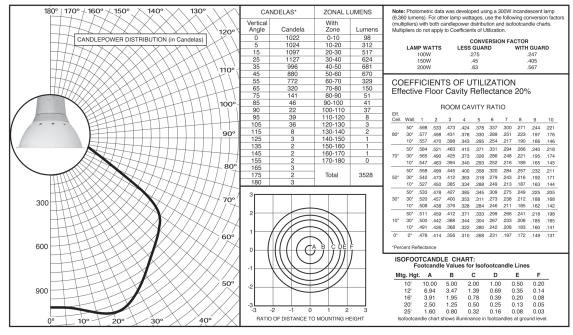
Luminaire with Globe and Guard EVICX2301 Lamp: 300W/PS25 Incandescent



#### **Medium Base**

Luminaire with Globe and Dome Reflector (Less Guard)

EVICX2300 Lamp: 300W/PS25 Incandescent



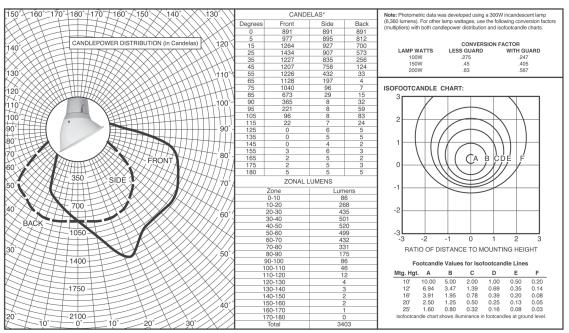
# 1L EVI Series Explosionproof Incandescent Luminaires

Factory Sealed 100–500W Medium and Mogul Base

#### **Medium Base**

Luminaire with Globe and 30° Angle Reflector (Less Guard)

EVICX2300 Lamp: 300W/PS25 Incandescent



# **Mogul Base**

Luminaire with Globe and Guard

EVIA2501 Lamp: 500W/PS40 Incandescent

180° 170° 160° 150° 140° 130°	CA	NDELA	s	ZONAL L	LUMENS						ped usi					
120°	Vertical Angle	Front	Side	With Zone	Lumens	(multip	oliers) w	vith bot	h candl	epower	ttages, u distribut nts of Ut	ion and	d isofoc			n factors ts.
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	15 25	326 417	344 386	20-30 30-40	179 244	l			00W			.27				
	35	426	375	40-50	311	l			50W			.45				
110°	45	434	382	50-60	394	l		-	.00**			.00				
	55	471	411	60-70	494			-1015	- NITC							
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	75	555	503	80-90	541	Effe	ectiv	e Flo	oor C	avity	/ Refl	ecta	nce	20%	0	
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	90	505	458	100-110	378	Eff.			HU	OIVIC	AVIII	nAII	10			
	95	487	443	110-120	150		Wall	1	2 :	3 4	5	6	7	8	9	10
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90°	125	22	24	140-150	2	80*				31 .27		.202		.153	.135	.120
	135	6	6	150-160	0	_			.360 .2				.132		.098	.085
	145	2	2	160-170	0	70*				72 .32 14 .26		.250	.222	.200	.180	.164
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	165	0	1			_				27 .28				.177	.160	.146
	175	0	1	Total	3897	50*				79 .23				.130	.115	.102
	180	1	1				10*	.413	.308 .2	40 .19	7 .161	.134	.112	.097	.083	.073
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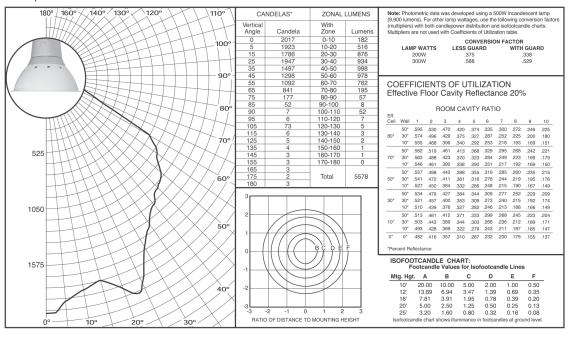
# **EVI Series Explosionproof Incandescent Luminaires**

Factory Sealed 100–500W Medium and Mogul Base

#### **Mogul Base**

Luminaire with Globe and Dome Reflector (Less Guard)

EVIA2500 Lamp: 500W/PS40 Incandescent



#### **Mogul Base**

Luminaire with Globe and Angle Reflector (Less Guard)

EVIA2500 Lamp: 500W/PS40 Incandescent

