



# Certificate of Compliance

**Certificate:** 1211805 (011713\_C\_000)

**Master Contract:** 151933

**Project:** 70146423

**Date Issued:** 2017-07-13

**Issued to:** Killark Electric Manufacturing Co.  
3940 Dr. Martin Luther King Dr.  
St. Louis, Missouri 63113  
USA

**Attention:** Thomas J. Michalski

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** *Domenic Somma*  
Domenic Somma

## PRODUCTS

CLASS - C342803 - FIXTURES AND FITTINGS-For Hazardous Locations

CLASS - C342883 - FIXTURES AND FITTINGS-For Hazardous Locations-Certified to U.S. Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

Class I, Div. 1, Groups C and D; Class II, Groups E, F and G; Class III; CSA Encl. 3, 4, 4X: Temperature Coded: T6, T5, T4, T4A, T3A, T3C, T3 or T2D (where applicable)

- Series EZ luminaires, Series Cat: EZM - Mercury Vapor (MV); EZH - Metal Halide (MH); EZS - High Pressure Sodium (HPS); lamp wattage 400 W max; 60 Hz, 600 V max; and EZL - LED, 190W max; 50/60 Hz, 480 VAC max or 250VDC max

Note: Suffixes letters/numerals denote Lamp Type, Lamp Ratings, Voltage, Mounting and Options.

### Temperature Coded as follows:

		Rated		Suitable For
	<u>Lamp</u>	Amb.	Class I	Simultaneous Use In
<u>Cat No</u>	<u>W</u> <u>Type+</u>	<u>°C</u>	<u>Div. 1, Groups</u>	<u>Class I, Groups. C, D</u>
				<u>and Class II, Groups.</u>



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*	EZS50	50	HPS	40	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS50	50	HPS	55	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS50	50	HPS	65	C, D 120 (T4A)	E, F, G 165 (T3B)
*	EZS07	70	HPS	40	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS07	70	HPS	55	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS07	70	HPS	65	C, D 120 (T4A)	E, F, G 165 (T3B)
*	EZS10	100	HPS	40	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS10	100	HPS	55	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS10	100	HPS	65	C, D 120 (T4A)	E, F, G 165 (T3B)
	EZS15	150	HPS	40	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS15	150	HPS	55	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZS15	150	HPS	65	C, D 135 (T4)	E, F, G 165 (T3B)
	EZS20	200	HPS	40	C, D 160 (T3C)	E, F 200 (T3)
	EZS20	200	HPS	55	C, D 160 (T3C)	-
	EZS25	250	HPS	40	C, D 160 (T3C)	E, F 200 (T3)
	EZS25	250	HPS	55	C, D 160 (T3C)	-
	EZS40	400	HPS	40	C, D 160 (T3C)	-
*	EZM10	100	MV	40	C, D 135 (T4)	E, F, G 160 (T3C)
	EZM10	100	MV	55	C, D 135 (T4)	E, F, G 160 (T3C)
	EZM17	175	MV	40	C, D 135 (T4)	E, F, G 160 (T3C)
	EZM17	175	MV	55	C, D 135 (T4)	E, F, G 160 (T3C)
	EZM25	250	MV	40	C, D 160 (T3C)	-
	EZM40	400	MV	40	C, D 180 (T3A)	-
*	EZH07	70	MH	40	C, D 120 (T4A)	E, F, G 120 (T4A)
	EZH07	70	MH	55	C, D 120 (T4A)	E, F, G 135 (T4)
	EZH07	70	MH	65	C, D 120 (T4A)	E, F, G 160 (T3C)
*	EZH10	100	MH	40	C, D 120 (T4A)	E, F, G 120 (T4A)
	EZH10	100	MH	55	C, D 120 (T4A)	E, F, G 135 (T4)
	EZH10	100	MH	65	C, D 120 (T4A)	E, F, G 160 (T3C)
	EZH17	175	MH	40	C, D 135 (T4)	E, F, G 160 (T3C)
	EZH17	175	MH	55	C, D 135 (T4)	E, F, G 160 (T3C)
	EZH25	250	MH	40	C, D 160 (T3C)	-
	EZH25	250	MH	55	C, D 160 (T3C)	-
	EZH40	400	MH	40	C, D 180 (T3A)	-
	EZL040	40	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL050	50	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL055	55	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL065	65	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL070	70	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL080	80	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL090	90	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL095	95	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL100	100	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL125	125	LED	40	C, D 73 (T6)	E, F, G 160 (T3C)
	EZL135	135	LED	40	C, D 88 (T5)	E, F, G 160 (T3C)



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EZL150	150	LED	40	C, D 88 (T5)	E, F, G 160 (T3C)
EZL190	190	LED	40	C, D 88 (T5)	E, F, G 160 (T3C)
EZL040	40	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL050	50	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL055	55	LED	55	C, D 81(T6)	E, F, G 160 (T3C)
EZL065	65	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL070	70	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL080	80	LED	55	C, D 81(T6)	E, F, G 160 (T3C)
EZL090	90	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL095	95	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL100	100	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL125	125	LED	55	C, D 81 (T6)	E, F, G 160 (T3C)
EZL040	40	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL050	50	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL055	55	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL065	65	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL070	70	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL080	80	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL090	90	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL095	95	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL100	100	LED	65	C, D 91 (T5)	E, F, G 160 (T3C)
EZL125	125	LED	65	C, D 91(T5)	E, F, G 160 (T3C)

Notes:

1. \*Fixtures are suitable for locations having deposits of readily combustible paint residues.
2. Temperature coded for Series EZ fixture all mounts except trunnion.
3. LED 135W, 150W & 190 W ratings are only for use in ambient not exceeding 40C

Operating Temperature (°C) for EZ series with Trunnion Mount option:

Cat No	Lamp		Ambient	Class I, Div. 1, Groups
	W	Type		
EZS50T	50	HPS	40	C, D 135 (T4)
EZS50T	50	HPS	55	D, D 160 (T3C)
EZS07T	70	HPS	40	C, D 135 (T4)
EZS07T	70	HPS	55	C, D 160 (T3C)
EZS10T	100	HPS	40	C, D 135 (T4)
EZS10T	100	HPS	55	C, D 160 (T3C)
EZS15T	150	HPS	40	C, D 135 (T4)
EZS15T	150	HPS	55	C, D 160 (T3C)
EZS20T	200	HPS	40	C, D 160 (T3C)
EZS25T	250	HPS	40	C, D 160 (T3C)
EZS40T	400	HPS	40	C, D 200 (T3)
EZM10T	100	MV	40	C, D 165 (T3B)



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EZM10T	100	MV	55	C, D 180 (T3A)
EZM17T	175	MV	40	C, D 165 (T3B)
EZM17T	175	MV	55	C, D 180 (T3A)
EZM25T	250	MV	40	C, D 180 (T3A)
EZM40T	400	MV	40	C, D 215 (T2D)
EZH07T	70	MH	40	C, D 135 (T4)
EZH07T	70	MH	55	C, D 135 (T4)
EZH07T	70	MH	65	C, D 135 (T4)
EZH10T	100	MH	40	C, D 135 (T4)
EZH10T	100	MH	55	C, D 135 (T4)
EZH10T	100	MH	65	C, D 135 (T4)
EZH17T	175	MH	40	C, D 165 (T3B)
EZH17T	175	MH	55	C, D 180 (T3A)
EZH25T	250	MH	40	C, D 180 (T3A)
EZH40T	400	MH	40	C, D 215 (T2D)

Operation Temperature, °C (Operating Temperature Code)  
 For Series EZ Fixtures With Auxiliary Quartz Lamp Option  
All Mounts Except Trunnion

D Cat No	Lamp		Rated Ambient °C	Class I, Div. 1, Grps.	Suitable For Simultaneous Use In Class I, Grps C and  and Class II, Grps.
	W	Type+			
EZS05	50	HPS	40	C, D 135 (T4)	E, F, G 160 (T3B)
EZS07	70	HPS	40	C, D 135 (T4)	e, F, G 160 (T3B)
EZS10	100	HPS	40	C, D 135 (T4)	E, F, G 160 (T3B)
EZS15	150	HPS	40	C, D 135 (T4)	E, F, G 160 (T3B)
EZS20	200	HPS	40	C, D 160 (T3C)	E, F 200 (T3)
EZS25	250	HPS	40	C, D 160 (T3C)	E, F 200 (T3)
EZM10	100	MV	40	C, D 160 (T3C)	E, F 180 (T3A)
EZM17	175	MV	40	C, D 160 (T3C)	E, F 180 (T3A)
EZM25	250	MV	40	C, D 160 (T3C)	-
EZH17	175	MH	40	C, D 160 (T3C)	E, F 180 (T3A)
EZH25	250	MH	40	C, D 160 (T3C)	-
EZS40	400	HPS	40	C, D 160 (T3C)	-
EZM40	400	MV	40	C, D 180 (T3A)	-
EZH40	400	MH	40	C, D 180 (T3A)	-

**APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 0-10 - General Requirements - Canadian Electrical Code, Part II.
- CAN/CSA-C22.2 No 25-1966 - Enclosures for use in Class II, Groups E, F and G Hazardous Locations.
- CAN/CSA-C22.2 No 30-M1986 - Explosion-Proof Enclosures for use in Class I Hazardous Locations.



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CAN/CSA-C22.2 No 94-M91 - Special Purpose Enclosures.  
CAN/CSA-C22.2 No 137-M1981 - Electric Luminaires for Use in Hazardous Locations  
CAN/CSA-C22.2 No 250.13.12 - Light Emitting Diode (LED) Equipment for Lighting Applications  
CAN/CSA- C22.2 No. 250.0-08 - Luminaires  
ANSI/UL Standard No 844 Ed 11 - Standard for Electric Lighting Fixtures for Use in Hazardous (Classified) Locations  
ANSI/UL Standard No. 8750 Ed 1 - Light Emitting Diode (LED) Equipment for use in lighting product  
ANSI/UL Standard 50E 1st Ed. - Enclosures for Electrical Equipment, Environmental Considerations

### **MARKINGS**

**The manufacturer is required to apply the following markings:**

- **Products shall be marked with the markings specified by the particular product standard.**
- **Products certified for Canada shall have all Caution and Warning markings in both English and French.**

**Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.**

**The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.**

### **Nameplate adhesive label material approval information**

N/A

Markings appear on an aluminium nameplate (0.02-in thick min) secured by drive pins or screws.

On a metal nameplate having a thickness not less than 0.5mm secured to the ballast housing by drive pins engaging bottomed holes.

- Manufacturer's name or trademark;
- Electrical ratings: Voltage, Amperes, Frequency, Wattage;
- Hazardous location designation;
- Lamp type and wattage;
- Type 3, 4, 4X;
- "FACTORY SEALED";
- Date Code and/or serial number traceable to month and year of manufacture;
- "Use \_\_\_ °C Min Supply Wire" (where applicable);
- "Caution: To prevent ignition of hazardous atmospheres. Disconnect this fixture



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from supply circuit before opening. Keep assembly tightly closed while circuits are alive".

- Temperature code or maximum operating temperature;
- Operating Ambient Range
- "Warning: To prevent fire or explosion do not install where marked operating temperatures exceed ignition temperature of the hazardous atmosphere";
- "For vertical mount only, mount lamp base up";
- cCSAus Monogram.

The following markings shall be on a Certified self adhesive label secured inside ballast housing internal reflector, or globe guard housing:

- "Warning: To maintain hazardous location suitability replace auxiliary lamp with 100W, 120V Sylvania 100 Q/CL/DC Quartz Halogen Double Contact Bayonet Base Lamp".
- "Cat No VMAG-40 or HLVHAG40 for use with EZ, HLEZ or VM Series Ballast Tanks" with CSA Monogram.
- Hazardous Locations designation on combination of ballast housing with splice boxes and reflectors.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70146423	2017-07-13	Update Certificate No. 1211805 CPB 70037626 to cover addition of an alternate heat sink to lighting fixture.
70037626	2015-07-22	Update Certificate No. 1211805 to cover LED version of Series EZ, Model Number EZL, rated 480V max, 190 W max, for use in Class I, Div. 1, Groups C and D; Class II, Groups E, F and G; Class III, Temperature Coded.
1673210	2005-05-17	Update Report 1211805 to include PVC Coating.