



Certificate of Compliance

Certificate: 2531848 (065182_0_000)

Master Contract: 164460

Project: 70125257

Date Issued: 2017-10-17

Issued to: EGS Electrical Group LLC
9377 W Higgins Rd
Rosemont, Illinois 60018
USA

Attention: Mickey Scherer

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: Steven Simkevitz
Steven Simkevitz

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.

Ex nA IIC, T4/T3, IP 66/67

Class I, Zone 2, AEx nA IIC T4/T3, IP66/67:

Class I, Div 2, Groups A, B, C, and D; Class II, Div. 1, Groups E, F and G; Class II, Div 2, Groups F and G;

Class III; T3C, T4, T4A, T5 or T6, Type 3R, 4, 4X, and Marine Outside Type (Salt Water):

- **MERCMaster III**, LED. lighting fixtures, 70W to 250W (HID Equivalent) Models, Model MLED with suffix "N", rated 100W max, 480 V max 50/60 Hz, 1-ph, with -40°C to 50/55/65 °C ambient temperature range.

Class I, Div 2, Groups A, B, C, and D; T3, T3A, Type 3R, 4, 4X, and Marine Outside Type (Salt Water):

- **MERCMaster III**, LED. lighting fixtures, 350W and 400W (HID Equivalent) Models, Model MLED with suffix "N", rated 120W max, 480 V max 50/60 Hz, 1-ph, with -40°C to 50/55/65 °C ambient temperature range.

Notes:



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1. Series Cat. No MLED followed by N may be followed by A, C, D, R, S, or W, followed by 70, 10, 15, 17, 25, 35 or 40, may be followed by 2, 3, 4 or 5, followed by P or J, followed by 1 or 5, followed by BU or BH, optionally followed by F and/or H1, H2, H3, H4 or DIFF.
2. Marine Outside Type (Salt Water) rating is for installation of the fixtures in the USA only.
3. Fixtures with photo controls installed are not rated IP66/IP67 and are not rated Marine Outside Type (Salt Water).
4. 350W and 400W models may also be marked Class I Zone 2 , IIC ; Tcoded

Temperature Code Specification Table:

Model	Ambient Temperature (°C)	Temperature Code			
		Class I, Div. 2, Groups A, B, C and D;	Ex nA IIC; Class I, Zone 2, AEx nA IIC	Class II Div. 1, Groups E, F and G	Simultaneous Class I, Div. 2, Class II, Div. 1
MLEDN70	40	T4A	T4	T6	T4
	55	T4	T4	T6	T4
	65	T3C	T3	T6	T3C
MLEDN100	40	T4A	T4	T6	T4
	55	T4	T4	T6	T4
	65	T3C	T3	T6	T3C
MLEDN100 (Type 1)	40	T4	T4	T5	T4
	55	T3C	T3	T5	T3C
	65	T3C	T3	T4A	T3C
MLEDN150	40	T4A	T4	T6	T4
	55	T4	T4	T6	T4
MLEDN175 (Type 1)	40	T4	T4	T5	T4
	55	T3C	T3	T5	T3C
MLEDN175	40	T4A	T4	T6	T4
	55	T4	T4	T6	T4
MLEDN250	40	T4A	T4	T6	T4A
	50	T4	T4	T6	T4
Model		Temperature Code			



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	Ambient Temperature (°C)	Class I, Div. 2, Groups A, B, C and D;	Class I, Zone 2, IIC	Class II Div. 1, Groups E, F and G	Simultaneous Class I, Div. 2, Class II, Div. 1
MLEDN350	40	T3A	T3	N/A	N/A
	50	T3	T3	N/A	N/A
MLEDN400	40	T3A	T3	N/A	N/A
	55	T3	T3	N/A	N/A

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No 0-10	-	General Requirements - Canadian Electrical Code Part II.
CAN/CSA C22.2 No. 0.4-04	-	Bonding of Electrical Equipment
CAN/CSA C22.2 No. 0.5	-	Threaded Conduit Openings
CAN/CSA C22.2 No. 94-M91	-	Special Purpose Enclosures
CAN/CSA C22.2 No. 60529:05	-	Degrees of Protection Provided by Enclosure (IP Code)
CAN/CSA C22.2 No. 137- M81	-	Electric Luminaires for Use in Hazardous Locations
CAN/CSA C22.2 No. 250.0-00	-	Luminaries
CSA C22.2 No **142-M1987	-	Process Control Equipment
CAN/CSA C22.2 No.60079-0:07	-	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
CAN/CSA-E60079-15:02	-	Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"
UL 50	-	Enclosures for Electrical Equipment
ANSI/IEC 60529 – 2004	-	Degrees of Protection Provided by Enclosures (IP Code)
UL 844, 12 th Ed.	-	Electric Lighting Fixtures for Use in Hazardous (Classified) Locations
UL 1598, 3 rd Ed.	-	Luminaries
UL 1598A, 1 st Ed.	-	Supplemental Requirements for Luminaires for Installation on Marine Vessels
UL 8750, 1 st Ed.	-	Light Emitting Diode (LED) Equipment for Use in Lighting Product
ANSI/UL 60079-0 – 2002	-	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-15 – 2002	-	Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Electrical Apparatus with Type of Protection "n"

Note** As a guide only.

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.



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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:

The main nameplate appears on the outside as follows:

- Identification of the manufacturer: “EGS Electrical Group LLC” or Master Contract Number “MC 164460” adjacent to the CSA Mark. Alternate: use one of the following registered trade names or trademark: Appleton", “Appleton Electric”, “Appleton Electric Company”, "A in a triangle".
- Commercial Designation “Mercmaster LED”
- Catalogue Number
- Hazardous location designations;
- Electrical ratings: voltage, amperes, frequency, and watts
- Temperature code;
- Maximum Ambient temperature;
- Serial number;
- Date of manufacture;
- Place of manufacture;
- Certificate number and year of issue (12.2531848) adjacent to the CSA Mark, for Ex nA IIC and Class I Zone 2 AEx nA IIC rated units (70W-250W units only)
- Products may also be marked Class I Zone 2 IIC as per the CEC and NEC
- CSA Mark with the adjacent “C” and “US” indicators
- The phrase “See Adjacent Label for Additional ratings and Information”.

A second rating nameplate appears adjacent to the nameplate as follows:

- IP66 (optional)
- IP67 (optional)
- Type 3R, 4 and 4X (optional)
- Marine Outside Type (Salt Water) – For Installation in the USA Only (optional)
- The phrase “SUITABLE FOR WET LOCATIONS” in English and French
- The phrase “SUITABLE FOR SIMULTANEOUS USE IN CLASS I, DIV.2, GROUP A, B, C, D AND CLASS II, GROUP E, F, G LOCATIONS”.
- The phrase “Fixture fitting is Certified for hazardous locations only when completely assembled with KP or L series fittings. (See Label Inside Housing)
- The phrase “Fixtures with photo controls installed are not rated IP66/IP67 and are not rated Marine Outside Type (Salt Water)”
- The phrase “For Indoor/Outdoor Use” in English and French
- The phrase “For Supply Connections Use Wire Rated at Least Ambient Rating.”
- The phrase “CAUTION -TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES. DISCONNECT THE FIXTURE FROM THE SUPPLY CIRCUIT BEFORE OPENING. KEEP



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TIGHTLY CLOSED WHEN IN OPERATION” in English and French.

A third label located inside the wiring compartment includes the following:

- The phrase “A complete lighting fixture consists of an LED housing with globe and a mounting-hood. Adaptors are optional equipment”. The label lists the MLED-N fixture type followed by Ballast type, part numbers for hoods, globe and optional fittings. For details see the nomenclature break down in the ‘Description’ section of this report.

Units provided with optional fuse have a label indicating the replacement fuse type and rating adjacent to the fuse holder and the statement “Replace only with fuse having the same voltage and current rating as the existing fuse. Fuse is for supplementary protection only.

Each cover is provided with a label mounted to the underside with the Company Identification adjacent to the CSA Mark, (i.e. EGS Electrical Group LLC or “MC 164460” or tradename (see main label)), the part number and the CSA Mark.

Note: The “NRTL” or the “US” indicator may appear adjacent to the CSA mark.

The above markings are permanently marked on a metal nameplate(s) having a minimum thickness of 0.5mm, securely attached by means of rivets or drive pins engaging bottomed holes. Alternatively, these marking may appear on a CSA Accepted label as follows: Silver-polyester label with type P1410 Pressure Sensitive adhesive manufacturer: TLF Graphics, Suitable for use indoor and outdoor on metal at 100C max. (CSA File number: LR 59850)

Terminals for the connection of the ‘identified conductor’ (i.e. Neutral of a single phase system) are identified on the terminal block with the capital “N”.

Terminals for the connection of the ‘bonding conductor’ (aka ‘ground’) are identified on the terminal block with the capital “G”.

SEE ILLUSTRATION 1 FOR DRAWING OF THE ABOVE MARKINGS (Typical).



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

Project	Date	Description
70125257	2017-10-17	Update Report 2531848 to address a Factory Inspection Report (FIR).
70117441	2017-02-02	Update report 2531848 to allow for an alternate supplier of assembled LED array.
70047046	2015-10-27	Update to report 2531848 to cover addition of glass part # LPG-R5.
70011694	2014-10-06	Class I, Div 2, Groups A, B, C, and D certification of 350W and 400W LED versions of luminaire
2624502	2013-07-26	Addition of alternate polycarbonate material Makrolon LTG 2623 by Bayer Material Science for use in the globe (lens) of the Certified Mercmaster III LED luminaire.
2604400	2013-06-18	1. Addition of Marine Outside Type (Salt Water), IP67, and Type 4 ratings for the Mercmaster III LED luminaire. 2. Addition of 100W Type 1 model of the Mercmaster III LED luminaire.
2583772	2013-01-17	Update report 2531848 to cover addition of single-piece LED family, models LED70, LED 150, LED175 and LED 250 to Mercmaster III LED lighting fixtures.
2531848	2012-08-29	New report from 2497767 (25428-75) to cover single piece housing with separate mounting hood and revised model designation and ratings.