



Certificate of Compliance

Certificate: 70182640

Master Contract: 164460

Project: 80082690

Date Issued: 2021-07-02

Issued To: Appleton Group
9377 W Higgins Rd
Rosemont, Illinois, 60019
United States

Attention: Stephan Nalywajko

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 - C343802 - EMERGENCY LIGHTING AND POWER EQUIPMENT - For Hazardous Locations

CLASS - C343882 - EMERGENCY LIGHTING AND POWER EQUIPMENT - For Hazardous Locations -

Certified to US Stds

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; T-coded per table below; Type 4X; IP66, 67;

- MERCMaster LED Generation 3 with Emergency Battery Backup – Series MLG LED luminaires for use in hazardous locations; ceiling surface, wall surface, stanchion, trunnion or pendant mounted; rated input voltage 120-277 VAC 50/60 Hz, 58 Watts max; T_{ambient} -20 °C to +55 °C per table below.



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- Catalogue number MLG, may be followed by A, B, C, D, K, R, S, T, U, V, W, X or Y, followed by L3 or L5, may be followed by 2, 3, 4, 5 or 6, followed by C, N or W, may be followed by P, D, or G, may be followed by 1, 3 5 or W, followed by BU, followed by H or E.

Series Number	Min Supply Wire (C°)	Max Driver Current (mA)	Max Ambient Temperature (C°)	Class I Division 2 Groups A, B, C and D	Class I, Zone 2, Group IIC	Class II, Division 1, Groups E, F and G	Zone 20, Group IIIC	Class I, Division 2 & Class II, Division 1
MLG*L3****B U*	90	500	40	T5	T5	T6	T6	T5
			55	T5	T5	T6	T6	T5
MLG*L5****B U*	90	780	40	T5	T5	T6	T6	T4A
			55	T5	T5	T6	T6	T4A

Notes:

1. *** Series model MLG is followed with alphanumeric suffixes to denote electrical and mechanical variations. Refer to nomenclature for details.
2. Luminaire is not intended for mounting with LEDs in Face up orientation.
3. Products may be additionally marked Class I, Zone 2, IIC; Zone 20, IIIC;

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-10	-	General requirements — Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 94.2-15	-	Enclosures for electrical equipment, environmental considerations
CAN/CSA C22.2 No. 137-18	-	Electric Luminaires for Use in Hazardous Locations
CAN/CSA C22.2 No 141-15	-	Emergency Lighting Equipment
CAN/CSA C22.2 No. 250.0-18	-	Luminaires
CAN/CSA C22.2 No. 250.13-20	-	Light emitting diode (LED) equipment for lighting applications
CAN/CSA E60598-1:16	-	Luminaires — Part 1: General requirements and tests
UL 50E, Second Edition	-	Enclosures for electrical equipment, environmental considerations
UL 844, Thirteenth Edition	-	Luminaires for Use in Hazardous (Classified) Locations
UL 924, Tenth Edition	-	Emergency Lighting and Power Equipment
UL 1598, Fourth Edition	-	Luminaires
UL 8750, Second Edition	-	Light Emitting Diode (LED) Equipment for Use in Lighting Products

MARKINGS

The manufacturer is required to apply the following markings:



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- 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.

- a) manufacturer's name, trademark, tradename, or other recognized symbol of identification;
- b) catalogue number, style, model or other type designation;
- c) rated input voltage;
- d) frequency in hertz;
- e) rated input in amperes or watts and, if applicable, power factor;
- f) hazardous locations designation;
- g) maximum operating temperature or temperature code as applicable;
- h) cautions regarding use in hazardous locations, when luminaire is disconnected or connected the following bilingual warning shall apply:

CAUTION: TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, DISCONNECT THE LUMINAIRE FROM THE SUPPLY CIRCUIT BEFORE OPENING. KEEP TIGHTLY CLOSED WHEN IN OPERATION.

ATTENTION: MISE EN GARDE: POUR REDUIRE LE RISQUE D'INFLAMMATION/EXPLOSION EN ATMOSPHERES EXPLOSIBLES, ISOLER LE LUMINAIRE DU CIRCUIT D'ALIMENTATION AVANT L'OUVERTURE. VEILLEZ À CE QUE LE LUMINAIRE SOIT CORRECTEMENT FERME AVANT LA MISE SOUS TENSION.

- i) the maximum intended ambient temperature; -20°C to 40 °C or -20°C to 55 °C (as applicable);
- j) the month and year of manufacture, at least, shall be marked on the equipment in a location accessible without the use of tools. Date coding, serial numbers or equivalent means may be used;
- k) where a replaceable fuse is used and is not enclosed within a ballast or driver, the luminaire shall be marked adjacent to the fuse holder with the following or equivalent statement:

"REPLACE ONLY WITH FUSE OF THE SAME TYPE AND RATING. FUSE IS FOR SUPPLEMENTARY PROTECTION ONLY"
and

"REPLACER AVEC UN FUSIBLE DE MÊME TYPE ET MÊME CARACTÉRISTIQUES. FUSIBLE DÉDIÉ À UNE PROTECTION SUPPLÉMENTAIRE SEULEMENT".

For fuse replacement: **"REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL"**



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- l) Zone equivalency marking per NEC/CEC (optional)
- m) May be marked with IP66 (optional), IP67 (optional), Type 4X (optional) ratings
- n) As it has been shown by test that the temperature on the supply connection of any parts with which it may come in contact will be in excess of 90 °C, the following caution shall be plainly marked on the body of the luminaire as near as possible to the supply connection:

MINIMUM XX °C SUPPLY CONDUCTORS or equivalent,
and
CONDUCTEURS D'ALIMENTATION CONÇUS POUR UNE TEMPÉRATURE MINIMALE DE XX °C or the equivalent.

The temperature value XX shown in the preceding caution shall be 105, 125, 150, or 200 °C.

Specific for Emergency Luminaires:

- o) Equipment provided with batteries shall be marked to specify the rated operating time in the emergency mode in multiples of ½ hour (30 minutes), but not less than 1-1/2 hours (90 minutes).
- p) Emergency lighting equipment shall bear the following marking, or the equivalent for both English and French:

“CSA C22.2 NO. 141, EMERGENCY LIGHTING EQUIPMENT”
and
“APPAREIL D'ÉCLAIRAGE DE SECOURS”

- q) Adjacent to the battery and in the operating instructions:

“REPLACE BATTERY EVERY ____ YEARS, COMMENCING ____”

“THIS LUMINAIRE IS PROVIDED WITH A FACTORY INSTALLED EMERGENCY LIGHTING BATTERY PACK”

“CAUTION: REPLACE BATTERY ONLY WITH (MODEL)
and

“ATTENTION: REMPLACER LA BATTERIE UNIQUEMENT PAR UNE BATTERIE (MODÈLE)



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
80082690	2021-07-02	Update to Report 70182640 for the addition of alternate polycarbonate globe/lens materials Makrolon 2407 and Makrolon 2607.
80020376	2020-09-29	Update Report 70182640 to make the following changes: i) Revise Battery Management Module (BMM) ii) Revise Driver Housing iii) Revise factory Dielectric Test requirements iv) Modification of the MMII adapter
000070197038	2018-11-28	Update Report 70182640 to include the following items: 1. Addition of Killark Adapter 2. Addition of MM II adapter 3. Addition of Water tight pendant hood.
000070182640	2018-06-27	Original Certification of the Mercmaster LED Generation 3 with Emergency Battery Backup for North America (Class and Division system).