



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 24.0069X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-10-03

Applicant: **Eaton's Crouse-Hinds Business**
1201 Wolf Street
Syracuse, NY 13208
United States of America

Equipment: **LED Luminaires - FMVA*****M2**

Optional accessory:

Type of Protection: **Increased Safety "ec" and Dust Ignition Protection by Enclosure "tb"**

Marking: Ex ec IIC T4 Gc
Ex tb IIIC T85°C Db IP66/67
-40°C to +40°C
-40°C to +55°C
-40°C to +65°C

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

UL Solutions (US)
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Eaton's Crouse-Hinds Business**
1201 Wolf Street
Syracuse, NY 13208
United States of America

Manufacturing locations: **Eaton's Crouse-Hinds Business**
1700 Blue Hills Drive NE
Roanoke, VA 24012
United States of America

Cooper Crouse Hinds S.A.
Avda. Santa Eulàlia
290 ,08223 Terrassa
Barcelona
Spain

Eaton Electrical (Australia) Pty Ltd.
10 Kent Road
Mascot, NSW 2020
Australia

See following pages for more locations

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[US/UL/ExTR24.0092/00](#)

Quality Assessment Reports:

[AU/TSA/QAR06.0020/15](#)
[GB/BAS/QAR16.0002/05](#)

[DE/BVS/QAR13.0001/09](#)
[US/UL/QAR17.0013/06](#)

[GB/BAS/QAR07.0041/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

LED Luminaires models FMVA are composed of an LED housing and LED driver housing. Both the LED housing and LED driver housing are provided with integral fins for heatsinking. The LED housing consists of a gasketed joint between the housing and a clear or diffused glass lens, or clear polycarbonate lens. The LED driver housing consists of a gasketed joint between the housing and an Aluminum intermediate plate. The LED housing and LED driver housing are fastened together with four screws. Wiring from the LED driver housing is routed through a gasketed hole in the intermediate plate and LED housing. The LED driver housing consists of two entries for supply connection, and a straight threaded opening with a plug. The luminaire is provided with yoke mount.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- "To minimize the risk from electrostatic discharge, when cleaning, wipe the lens with a clean, damp cloth"
- "LED compartment is non serviceable. Do not open."



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Additional manufacturing locations:

Cooper Electrical (Changzhou) Co. Ltd.
No. 189 Liuyanghe Rd, Xinbei District,
Changzhou, Jiangsu, 213031
China

Eaton Industries Middle East LLC
2nd Industrial City
Dammam
Eastern Province
KHOBAR 31952 (PO Box 3996)
Saudi Arabia

Annex:

[Annex to IECEx UL 24.0069X Issue 0.pdf](#)



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TYPE DESIGNATION

LED Luminaires models FMVA are composed of an LED housing and LED driver housing. Both the LED housing and LED driver housing are provided with integral fins for heatsinking. The LED housing consists of a gasketed joint between the housing and a clear or diffused glass lens, or clear polycarbonate lens. The LED driver housing consists of a gasketed joint between the housing and an Aluminum intermediate plate. The LED housing and LED driver housing are fastened together with four screws. Wiring from the LED driver housing is routed through a gasketed hole in the intermediate plate and LED housing. The LED driver housing consists of two entries for supply connection, and a straight threaded opening with a plug. The luminaire is provided with yoke mount.

Nomenclature:

Example:

| | | | | | | | | | | | |
|-------------|------|----|-----|-------|----|-----|-----|------|----|----|------------|
| Cat. No. | FMVA | 15 | W | Blank | 76 | M20 | DG | UNV1 | BZ | M2 | DRXXXXXXXX |
| | I | II | III | IV | V | VI | VII | VIII | IX | X | XI |

| | |
|------|--|
| I. | Series Designation: FMVA – LED floodlight Series DFLA – LED floodlight Series |
| II. | Lumen Level: 9 – 9,000 lumens 11 – 11,000 lumens 13 – 13,000 lumens 15 – 15,000 lumens |
| III. | Color Temperature: Blank (No Suffix) – 5000K - 70 CRI N – 4000K – 80 CRI W – 3000K – 80 CRI Q – 5700K – 70 CRI Z – 6500K – 70 CRI C80 – 5000 K – 80 CRI 22 – 2200K – 70 CRI |
| IV. | Mount: Blank – Yoke Mount |



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| | |
|-------|---|
| V. | Optics: 76 – NEMA 7x6 Beam Spread 44 – NEMA 4X4 Beam Spread |
| VI. | Entries: Blank (No Suffix) – 3/4" NPT M20 – 3/4" to 20 mm adaptor M25 – 3/4" to 25 mm adaptor |
| VII. | Lens: Blank – Clear Glass DG – Diffused Glass PC - Polycarbonate |
| VIII. | Driver Voltage: UNV1 – Low Voltage |
| IX. | Paint: Blank (No Suffix) – Painted Gray BZ – Painted Bronze WH – Painted White |
| X. | Version M2 (Third Generation Floodlight – Non-Connected) |
| XI. | Optional Suffix – Indicates customer information code (does not affect driver housing construction) DRXXXXXXXX – XXXXXXXX may be any seven digits. |



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PARAMETERS RELATING TO THE SAFETY

| Cat No.: | Input Ratings | | |
|----------|---------------------------|-------------|-------------|
| | Voltage (Frequency) | Current (A) | Wattage (W) |
| 9-UNV1 | 100-277 Vac (50/60 Hz) | 0.59 | 58.12 |
| 11-UNV1 | 100-277 Vac (50/60 Hz) | 0.79 | 77.35 |
| 13-UNV1 | 100-277 Vac (50/60 Hz) | 0.91 | 89.60 |
| 15-UNV1 | 100-277 Vac (50/60 Hz) | 1.07 | 106.78 |

| Model FMVA | Voltage | Ambient Temperature | Gas ¹ | Dust ¹ |
|---------------|---------------------------|------------------------|------------------|-----------------------------|
| 9-UNV1 | 100-277 Vac (50/60 Hz) | -40°C to +40°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +55°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +65°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| 11-UNV1 | 100-277 Vac (50/60 Hz) | -40°C to +40°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +55°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +65°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| 13-UNV1 | 100-277 Vac (50/60 Hz) | -40°C to +40°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +55°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +65°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| 15-UNV1 | 100-277 Vac (50/60 Hz) | -40°C to +40°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
| | | -40°C to +55°C | Ex ec IIC T4 Gc | Ex tb IIIC T85°C Db IP66/67 |
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MARKING

Marking has to be readable and indelible; it has to include the following indications:

| | | | | |
|--------------------------------------|--|--|--|-------------|
| EATON CROUSE-HINDS SERIES | CHAMP™ FMVA LUMINAIRE FOR HAZARDOUS LOCATIONS | CL I, DIV 2, Gr. A,B,C,D, CL II, DIV 2, Gr. F,G; CL III | CL I, ZN. 2 AEx ec IIC Gc; Ex ec IIC Gc CL I, ZN 21 AEx tb IIIC Db; Ex tb IIIC Db | CE 0539 |
| CATALOG NO. | FMVA-XX-XX | IP66/67 | TYPE 4X | |
| INPUT VOLTS (VAC) | XXX-XXX | | | |
| INPUT VOLTS (VDC) | XXX-XXX | | | |
| FREQUENCY (Hz) | 50/60 | | | |
| POWER (W) | XXX-XXX | | | |
| CURRENT (A) | XXX-XXX | | | |
| IECEx UL 24.0069X | | | | |
| **UL 24 ATEX 3277X | | | | |
| *UL 24 ATEX 3278X | | | | |
| 1201 Wolf Street, Syracuse, NY 13208 | Assembled in USA | DDMMYY | MODEL: XX | 0308633-1R3 |

⚠ WARNING / ADVERTENCIA / AVERTISSEMENT / WARNUNG / ATENÇÃO

TO PREVENT FIRE OR EXPLOSION DO NOT INSTALL WHERE THE MARKED OPERATING TEMPERATURES EXCEEDS THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERE. INSTALL ACCORDING TO APPROPRIATE STANDARDS. DO NOT OPEN WHILE ENERGIZED. AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING. KEEP TIGHTLY CLOSED WHEN IN OPERATION. DISCONNECT POWER BEFORE SERVICING. DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT. TO REDUCE THE RISK OF IGNITION DUE TO ELECTROSTATIC DISCHARGE, AVOID CONTACT WITH THE LUMINAIRE WHILE AN EXPLOSIVE ATMOSPHERE IS PRESENT. CLEAN ONLY WITH A DAMP CLOTH. DO NOT REMOVE LENS, NO REPLACEABLE COMPONENTS INSIDE.

PARA EVITAR INCENDIO O EXPLOSIÓN NO INSTALE DONDE LA TEMPERATURA DE OPERACIÓN EXCEDA A LA TEMPERATURA DE IGNICIÓN DE LA ATMÓSFERA PELIGROSA. INSTALE DE ACUERDO A LAS NORMAS APROPIADAS. NO ABRA CUANDO SE ENCUENTRE ENERGIZADA. UNA VEZ QUE SE HAYA DESENERGIZADO, ESPERE 15 MINUTOS ANTES DE ABRIRLA. MANTENGA BIEN CERRADA CUANDO ESTÁ EN FUNCIONAMIENTO. DESCONECTE LA ENERGÍA ANTES DE DARLE SERVICIO. NO ABRA CUANDO UNA ATMÓSFERA EXPLOSIVA PUEDA ESTAR PRESENTE. PARA REDUCIR EL RIESGO DE IGNICIÓN DEBIDO A DESCARGA ELECTROSTÁTICA, EVITE EL CONTACTO CON LA LUMINARIA MIENTRAS HAYA UNA ATMÓSFERA EXPLOSIVA. LIMPIE ÚNICAMENTE CON UN PAÑO HÚMEDO. NO quite la lente. NO ES POSIBLE REEMPLAZAR LOS COMPONENTES DEL INTERIOR.

POUR ÉVITER UN INCENDIE OU UNE EXPLOSION, NE PAS INSTALLER DANS DES ENDROIT SOUS LES TEMPÉRATURES DE FONCTIONNEMENT INDIQUÉES EXCÈDENT LA TEMPÉRATURE D'IGNITION DE L'ATMOSPHÈRE DANGEREUSE. INSTALLER SELON LES NORMES ADÉQUATES. NE PAS OUVRIR LORSQUE SOUS TENSION. APRÈS AVOIR MIS HORS TENSION, ATTENDRE 15 MINUTES AVANT D'OUVRIR. CONSERVER HERMÉTIQUEMENT FERMÉ LORSQU'IL EST EN FONCTIONNEMENT. COUPER LE COURANT AVANT TOUT ENTRETIEN. NE PAS OUVRIR QUAND UNE ATMOSPHÈRE EXPLOSIVE PEUT ÊTRE PRÉSENTE. POUR RÉDUIRE LE RISQUE D'ALLUMAGE EN RAISON D'UNE DÉCHARGE ÉLECTROSTATIQUE, ÉVITER DE TOUCHER LE LUMINAIRE DANS UNE ATMOSPHÈRE EXPLOSIVE. LE NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE. NE RETIREZ PAS LA LENTILLE. NE CONTIENT AUCUN COMPOSANT REMPLAÇABLE.

UM FEUER ODER EXPLOSION ZU VERHINDERN, NICHT INSTALLIEREN, WO DIE GEKENNZEICHNETEN UMGEBUNGSTEMPERATUREN DIE ZÜNDTEMPERATUREN DES GEFÄHRLICHEN BEREICHES ÜBERSTIEGEN. GEMÄSS DEN ENTSPRECHENDEN ZUTREFFENDEN NORMEN INSTALLIEREN. WÄHREND DER AKTIVIERUNG NICHT ÖFFNEN. ZWISCHEN DEAKTIVIERUNG UND ÖFFNUNG SOLLTEN 15 MINUTEN LIEGEN. WÄHREND DER INBETRIEBNAHME FEST VERSCHLOSSEN HALTEN. SCHALTENSIE DEN STROM VOR DER INSTANDHALTUNG AUS. NICHT ÖFFNEN, FALLS SIE SICH IN EINEM GEFÄHRLICHEN BEREICH AUFHALTEN KÖNNTEN. VERMEIDEN SIE IN EXPLOSIONSGEFÄHRDETEN BEREICHEN DEN KONTAKT MIT DER LEUCHTE, UM DAS ENTZÜNDUNGSRISIKO AUFGRUND VON ELEKTROSTATISCHEN ENTLADUNGEN ZU MINIMIEREN. REINIGEN SIE DIE LEUCHTE NUR MIT EINEM FEUCHTEN TUCH. LINSE NICHT ENTFERNEN, KEINE AUSTAUSCHBAREN KOMPONENTEN IM INNEREN.

PARA EVITAR INCÊNDIO OU EXPLOSÕES, NÃO INSTALE CASO AS TEMPERATURAS OPERACIONAIS MARCADAS EXCEDAM A TEMPERATURA DE IGNIÇÃO DE ATMOSFERA PERIGOSA. INSTALE DE ACORDO COM NORMAS ADEQUADAS. NÃO ABRA ENQUANTO ESTIVER ENERGIZADO. APÓS DESENERGIZAR, AGUARDE 15 MINUTOS ANTES DE ABRIR. MANTENHA BEM FECHADO DURANTE O FUNCIONAMENTO. DESCONECTE A ENERGIA ANTES DE PRESTAR SERVIÇO. NÃO ABRA QUANDO UMA ATMOSFERA EXPLOSIVA POSSA ESTAR PRESENTE. PARA REDUZIR O RISCO DE INCÊNDIO DEVIDO À DESCARGA ELETROSTÁTICA, EVITE CONTATO COM A LÂMPADA ENQUANTO HAJA UMA ATMOSFERA EXPLOSIVA. LIMPAR SOMENTE COM UM PAÑO ÚMIDO. NÃO REMOVA AS LENTES, OS COMPONENTES INTERNOS NÃO SÃO SUBSTITUÍVEIS.

WHERE MARKED, CL. I, DIV. 2 GROUPS A,B,C,D & CL. II, DIV. 2 GROUPS F,G SUITABLE FOR WET LOCATIONS. ALSO LISTED AS MISCELLANEOUS MARINE LUMINAIRE OUTSIDE TYPE (SALTWATER). FOR CORRECT INSTALLATION, USE & MAINTENANCE SEE INSTRUCTIONS PROVIDED.

0308913 REV. X1

ROUTINE EXAMINATIONS AND TESTS

None