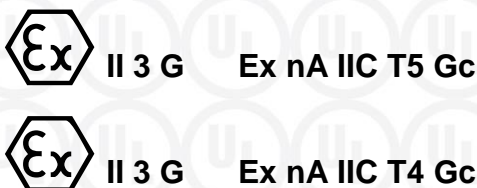


TYPE EXAMINATION CERTIFICATE



- [2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- [3] Type Examination Certificate Number: **DEMKO 15 ATEX 1383 Rev. 0**
- [4] Equipment: **Luminares, Series FMV**
- [5] Manufacturer: **Cooper Crouse-Hinds**
- [6] Address: **Wolf & 7th North St. PO Box 4999 Syracuse, NY 13221 USA**
- [7] This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of **Category 3** equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.
- The examination and test results are recorded in confidential report no. **4786475987**
- [9] Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to Standards:
- EN 60079-0:2012+A11:2013** **EN 60079-15:2010**
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured.
- [12] The marking of the equipment or protective system shall include the following:



Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2015-06-04

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1383 Rev. 0

Report: 4786475987

[13]

[14]

[15]

Description of Equipment:

Series FMV are LED floodlight luminaires intended for installation in hazardous locations. These luminaires are constructed from die-cast aluminium and are yoke mounted. The luminaire may be provided with a guard, a visor, range of discrete LEDs arranged in an array with various colors, conduit entry options and two driver options. See nomenclature for additional details.

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is covered in this certificate

Nomenclature for Series FMV:

The complete luminaire catalog number is as follows:

Example:

FMV	5L	C	Y	/UNV1	76	M20
I	II	III	IV	V	VI	VII

I. Series designation
FMV – LED Floodlight

II. Indicates number of LED arrays provided
3L – 3000 Lumens
5L – 5000 Lumens
7L – 7000 Lumens
9L – 9000 Lumens
11L – 11K Lumens
13L – 13K Lumens

III. Indicates LED array color
C – Cool 5000K color
N – Neutral 4000K Color
W – Warm 3000K color

IV. Mount
Y – Yoke mount

V. Indicates input voltage
/UNV1 – 100-252 Vac, 50/60 Hz
111-227 Vdc
/UNV34 – 385-436 Vac, 50/60 Hz

VI. Indicates internal optical distribution
76 – Internal reflector

VII. Optional Suffix
M20 – 20 mm Entry
M25 – 25 mm Entry
S886 – Two entries with cable glands installed for MC-HL cable
S891 - Diffused Glass Lens
S903 – Clear Polycarbonate Lens
DR - Indicates customer code for commercial purposes only. May be followed by seven digits.
P61 - Wire Guard
DSV1 – External Visor

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range

-40 °C to +40 °C
-40 °C to +55 °C

Temperature class

T5
T4



Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1383 Rev. 0

Report: 4786475987

Electrical data

Catalog Series	Input Ratings		
	Voltage	Current(A)	Wattage (W)
Series FMV/UNV1	100-252 AC 50/60 Hz	0.26	132.0
	111-227 DC	0.26	132.0
Series FMV/UNV34	385-436 AC 50/60 Hz	0.26	132.0

Installation instructions
See drawing no. IF 1737

Mounting instructions
See drawing no. IF 1737

Routine tests

Routine tests according to EN 60079-15. shall be conducted on all units in accordance with clause 23.2 between the LED driver input wiring and enclosure of luminaire at 1504 Vac for /UNV1 configuration, and 1872 Vac for /UNV34 configuration.

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17] Special conditions for safe use:
None.

[18] Essential Health and Safety Requirements
Met by compliance with the standards EN 60079-0:2012 + A11:2013 and EN 60079-15:2010.

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information
The Series FMV has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.



EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 15 ATEX 1377 Rev. 0**
- [4] Equipment or Protective System: **Luminaires, Series FMV**
- [5] Manufacturer: **Cooper Crouse-Hinds**
- [6] Address: **Wolf & 7th North St. PO Box 4999 Syracuse, NY 13221, USA**
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4786475987-15ATEX1377**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 **EN 60079-31:2009**
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.
These are not covered by the certificate.
- [12] The marking of the equipment or protective system shall include the following:



II 2 D

Ex tb IIIC T65°C Db



II 2 D

Ex tb IIIC T80°C Db

Certification Manager

Jan-Erik Storgaard

Notified Body

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2015-06-04



UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

[13]

[14]

Schedule EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1377 Rev 0
Report: 4786475987-15ATEX1377

[15]

Description of Equipment or protective system

Series FMV are LED floodlight luminaires intended for installation in hazardous locations. These luminaires are constructed from die-cast aluminium and are yoke mounted. The luminaire may be provided with a guard, a visor, range of discrete LED's arranged in an array with various colors, conduit entry options and two driver options. See nomenclature for additional details.

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is covered in this certificate

Luminaires Cat. No. FMV, followed by 3L, 5L, 7L, 9L, 11L or 13L; followed by C, N, W; followed by Y; followed by /UNV1, UNV34, ; followed by 76; and may be followed by M20, M25, S886, S891, S903, P61, DSV1, or DR.

Nomenclature for Series FMV:

The complete luminaire catalog number is as follows:

Example:

FMV	5L	C	Y	/UNV1	76	M20
I	II	III	IV	V	VI	VII

- I. Series designation
FMV – LED Floodlight
- II. Indicates number of LED arrays provided
3L – 3000 Lumens
5L – 5000 Lumens
7L – 7000 Lumens
9L – 9000 Lumens
11L – 11K Lumens
13L – 13K Lumens
- III. Indicates LED array color
C – Cool 5000K color
N – Neutral 4000K Color
W – Warm 3000K color
- IV. Mount
Y – Yoke mount
- V. Indicates input voltage
/UNV1 – 100-252 Vac, 50/60 Hz
111-227 Vdc
/UNV34 – 385-436 Vac, 50/60 Hz
- VI. Indicates internal optical distribution
76 – Internal reflector
- VII. Optional Suffix
M20 – 20 mm Entry
M25 – 25 mm Entry
S886 – Two entries with cable glands installed for MC-HL cable
S891 - Diffused Glass Lens
DR - Indicates customer code for commercial purposes only. May be followed by seven digits.
P61 - Wire Guard
DSV1 – External Visor



[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1377 Rev 0

Report: 4786475987-15ATEX1377

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range

-40 °C to +40 °C

-40 °C to +55 °C

Temperature class (Db)

T65°C

T80°C

Electrical data

Catalog Series	Input Ratings		
	Voltage	Current(A)	Wattage (W)
Series FMV/UNV1	100-252 AC 50/60 Hz	0.26	132.0
	111-227 DC	0.26	132.0
Series FMV/UNV34	385-436 AC 50/60 Hz	0.26	132.0

Installation instructions

See drawing no. IF 1737

Mounting instructions

See drawing no. IF 1737

Routine tests

None

[16]

Descriptive Documents.

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EC-Type Examination Certificate.

[17]

Specific conditions of use:

None

[18]

Essential Health and Safety Requirements

Met by compliance with the standards EN 60079-0:2012 + A11:2013 and EN 60079-31:2009.

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The Series FMV has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

This certificate was issued as "Accredited by DANAK under registration number 7011 to certification of products".

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

