Type Examination Certificate CML 21ATEX3109X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **Protecta III**

3 Manufacturer **Hubbell Ltd T/As Chalmit Lighting**

4 Address 388 Hillington Road
Glasgow
G52 4BL
United Kingdom

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018 EN IEC 60079-7:2015 +A1:2018 EN 60079-31:2014

10 The equipment shall be marked with the following:

Ex II 3 G D	LED Control Gear Non-emergency:
	Ta = -40°C to +55°C
Ex ec IIC T4 Gc	LED Control Gear Inotec module Non-emergency:
Ex tc IIIC T75°C Dc	Ta = -15°C to +50°C
	Emergency:
	Ta = -25°C to +50°C

S. Roumbedakis
Technical Manager

11 Description

The Protecta III LED is an Ex ec Luminaire which uses a reinforced Plastic body, a polycarbonate diffuser and silicone gaskets, the enclosures incorporate 4 x M20 entries. This enclosure houses a White coated Zintec tray, to which up to two Ex 'ec' Conformally coated LED strips are mounted (One on the 02L versions). A driver is mounted to the rear of the tray to power the LED strips. The fitting is available in 2ft and 4ft versions. The device may optionally be supplied with an emergency model (/EM suffix) which is supplied with a battery pack.

Model	Lumens	Dimensions (mm)	Ambient	Power (W) Max.	Voltage (V)
PR3C/02L/LE	2000	742 x 209 x 147	-40°C to +55°C	15	110-277V 50-60Hz 127-250Vdc
PR3C/04L/LE	4000	1352 x 209 x 147	-40°C to +55°C	24	110-277V 50-60Hz 127-300Vdc
PR3C/07L/LE	7000	1352 x 209 x 147	-40°C to +55°C	44	110-277V 50-60Hz 127-300Vdc
PR3C/02L/EM	2000	742 x 209 x 147	-25°C to +50°C	20	220-240V 50-60Hz
PR3C/04L/EM	4000	1352 x 209 x 147	-25°C to +50°C	27	220-240V 50-60Hz
PR3C/07L/EM	7000	1352 x 209 x 147	-25°C to +50°C	49	220-240V 50-60Hz
PR3C/04L/EM/DM	4000	1352 x 209 x 147	-25°C to +50°C	26	220-240V 50-60Hz
PR3C/07L/EM/DM	7000	1352 x 209 x 147	-25°C to +50°C	29	220-240V 50-60Hz
PR3C/02L/LE/JSVT	2000	742 x 209 x 147	-15°C to +50°C	17	230Vac 50-60Hz 176-264 Vdc
PR3C/04L/LE/JSVT	4000	1352 x 209 x 147	-15°C to +50°C	24	230Vac 50-60Hz 176-264 Vdc
PR3C/07L/LE/JSVT	7000	1352 x 209 x 147	-15°C to +50°C	53	230Vac 50-60Hz 176-264 Vdc
PR3C/02L/LEJSVS	2000	742 x 209 x 147	-15°C to +50°C	18	230Vac 50-60Hz 176-264 Vdc
PR3C/04L/LEJSVS	4000	1352 x 209 x 147	-15°C to +50°C	25	230Vac 50-60Hz 176-264 Vdc
PR3C/07L/LEJSVS	7000	1352 x 209 x 147	-15°C to +50°C	54	230Vac 50-60Hz 176-264 Vdc

Variation 1

This variation introduces the following modifications:

i. To permit two additional electronic Emergency converter drivers.
ii. To permit the use of an alternative battery pack specifically for the 02L EM model.
iii. Non-technical Update to ATEX Specific Condition of Use
iv. Minimum ambient of 'EM' Models corrected on certificate
v. Inclusion of previously omitted information, in the certificate description.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 Jan 2021	R13765A/00	Issue of prime certificate
1	07 Jan 2022	R14294A/00	Introduction of Variation 1

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Each unit manufactured shall be subjected to a routine functional test and flash test of (1000+2U) * 1.2 to be applied for a minimum of 100ms in accordance with IEC 60079-7.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

i. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces, such as fast-moving streams of dry air, steam, etc. In addition, the equipment shall only be cleaned with a damp cloth.

Certificate Annex

Certificate Number	**CML 21ATEX3109X**
Equipment	**Protecta III**
Manufacturer	**Hubbell Ltd T/As Chalmit Lighting**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
H049664	4	0	28 Jan 2021	Protecta III LED Certification Drawing

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
H049664	1 to 4	1	07 Jan 2022	PROTECTA III LED ZONE 2 CERT DRAWING
H059764	1 of 1	0	07 Jan 2022	PROTECTA 3 CERTIFIED NAMEPLATE