



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 10ATEX5240X** Issue: **3**

4 Equipment: **PRL-97X04-xx-x-AX-xxx**

5 Applicant: **Point Lighting Corporation**

6 Address: Point Lighting Corporation
61 West Dudley Town Road
Bloomfield
Connecticut 06002
USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:


EN 60079-0:2012/A11:2013 IEC 60079-7: 2015-06 Ed 5.0 EN 60079-18:2015

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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 and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

 II 2G
Ex eb mb IIC T5 Gb
(Ta = -55°C to +55°C)

Note: Model PRL-97X02-xx-x-AX-xxx was removed from the title and marking at Issue 3 as it is no longer manufactured and therefore not included in the upgrade.

Project Number 70040333

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

**Sira 10ATEX5240X
Issue 3**

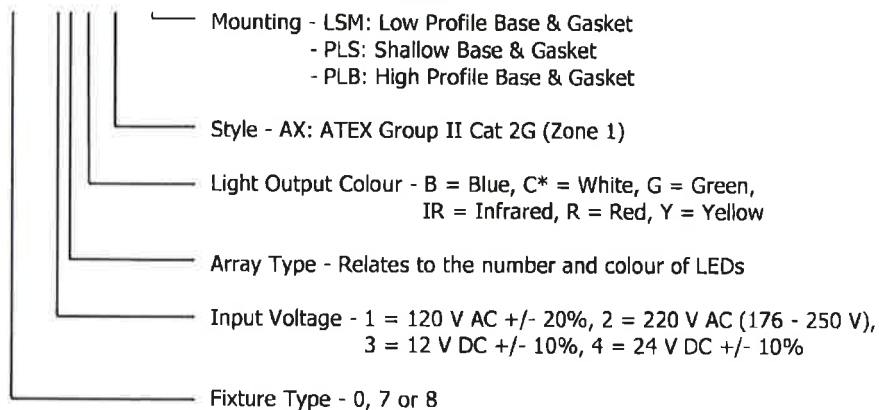
13 DESCRIPTION OF EQUIPMENT

The Light Type PRL-97X02-xx-x-AX-xxx and PRL-97X04-xx-x-AX-xxx comprises an aluminium cylindrical base with domed cover that is secured to the base by three or six off socket head cap screws.

The cover comprises an aluminium annulus with a central glass dome. The underside of the dome is fitted with an LED assembly, which is effectively encapsulated into the space formed by the dome. The underside of the annulus is fitted with a steel pot, into which is encapsulated an electronics module, such that when the cover and base are fitted together, the LED assembly and steel pot are fully enclosed within the housing. The base of the enclosure houses 'Ex e' certified terminals, which provide connection facilities for incoming cables via up to 4 cable entry holes. Internal and external earthing facilities are provided.

The units are designed for use on an electrical supply of either 120 V 50/60 Hz, 220 V 50/60 Hz, 12 V DC or 24 V DC and have the following Type Designations:

PRL-97X02-xx-x-AX-xxx and PRL-97X04-xx-x-AX-xxx



*C = White for Version 2 and W = White for Version 4

Label No.	Voltage (AC or DC)	Current (Amp)	Frequency (Hz)
PL10776-13	120 VAC	0.15 A	50/60 Hz
PL10776-14	220 VAC	0.15 A	50/60 Hz
PL10776-15	12 VDC	1.0 A	-
PL10776-16	24 VDC	0.5 A	-
PL10776-17	120 VAC	0.15 A	50/60 Hz
PL10776-18	220 VAC	0.15 A	50/60 Hz
PL10776-19	12 VDC	1.0 A	-
PL10776-20	24 VDC	0.5 A	-
PL10776-21	120 VAC	0.15 A	50/60 Hz
PL10776-22	220 VAC	0.15 A	50/60 Hz
PL10776-23	12 VDC	1.0 A	-
PL10776-24	24 VDC	0.5 A	-

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Variation 1 - This variation introduced the following changes:

- i. The replacement of the Ex e terminals certified under LCIE 02 ATEX 0014 U with Ex e terminals certified under LCIE 08 ATEX 0007U was endorsed.
- ii. The use of an alternative enclosure base for the -PLS option was approved.

Variation 2 - This variation introduced the following changes:

- i. The introduction of a new array of LED/infra-red components and associated power supply/driver circuits. When these new circuits are used, the model is referred to as the 'Version 4' or part number PRL-97X04-xx-x-AX-xxx. When the previously approved circuits are used, the model is referred to as the 'Version 2' or part number PRL-97X02-xx-x-AX-xxx. There are minor constructional differences in the LED array and its mounting arrangement of the Version 4 compared to the Version 2.
- ii. A change to the ambient range of the equipment when using the previously approved Version 2 circuits; the range has changed from '-55°C to +40°C' to '-55°C to 50°C'. The ambient range of the new Version 4 model is '-55°C to +55°C' the marking section is updated accordingly.
- iii. Replacement of the previously approved Epoxies 20-3001 NC Epoxy resin by Epic Resins S7202-04 Polyurethane, as the potting compound for the driver circuit/power supply section of all models. The compound used to encapsulate the LED array section of all models remains the previously approved Epoxies 20-3001 NC Epoxy resin.
- iv. An increase of the minimum distance through the compound between encapsulated driver circuit components and the edge of the compound on all faces. This has been increased from 1 mm to 3 mm by modifying the driver circuit enclosure.
- v. Following appropriate assessment to demonstrate compliance with the requirements of the later EN 60079 series of standards, the documents previously listed in section 9, EN 60079-0:2006 and IEC 60079-18:2009 Ed 3, were replaced by those currently listed, the conditions were modified to recognise these standards.

Variation 3 - This variation introduced the following changes:

- i. The light type PRL-97X02-xx-x-AX-xxx is no longer manufactured but the information is retained in the certificate to maintain the history.
- ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009, EN 60079-7:2007 and EN 60079-18:2009 were replaced by EN 60079-0:2012/A11:2013, IEC 60079-7: 2015-06 Ed 5.0 and EN 60079-18:2015, the markings were updated accordingly and the Condition of Manufacture was amended to recognise the new standard.
- iii. The recognition of minor drawing modifications; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety:
 - Changed "drawing control stamp" on all drawings. Now refers to "ATEX/IECEx"
 - Lens retaining ring – Aluminium material changed from 319F to 356-T6
 - Lens retaining ring – to permit alternative Marine Treatment (Finish) in various colours
 - Support ring – Aluminium material changed from 319F to 356-T6
 - Support ring – to permit alternative finish colours
 - Base Heliport-AX – Aluminium material changed from 319F to 356-T6
 - Base Heliport-AX – to permit alternative finish colours

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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	31 August 2010	R20568A/00	The release of the prime certificate.
1	21 June 2011	R24943A/00	The introduction of Variation 1.
2	16 April 2013	R27990A/00	The introduction of Variation 2.
3	22 October 2015	R70040333A	The introduction of Variation 3.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

- 15.1 The supply circuit shall be protected by a fuse capable of withstanding a prospective short circuit current of 1500 A.
- 15.2 Cable entry holes shall be fitted with either an appropriately certified cable gland or appropriately certified blanking element. These shall provide and maintain a minimum enclosure ingress protection of IP66.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 Every unit shall be subjected to a visual inspection in accordance with Clause 9.1 of EN 60079-18: 2015.
- 17.4 Every unit shall be subjected to a routine dielectric strength test of at least 1500 V r.m.s. a.c. applied for at least 1 s, or at least 1800 V r.m.s. a.c. applied for at least 100 ms, between all terminals and the equipment enclosure, in accordance with Clause 9.2 of EN 60079-18: 2015.
- 17.5 Only ATEX terminals approved by LCIE 08 ATEX 0007U are to be fitted.

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