



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira14ATEX1159X** Issue: **3**

4 Equipment: **PETROBRIGHT KF1L Series LED Luminaire Flood**

5 Applicant: **Killark, Hubbell.**  
**a Division of Hubbell . (Delaware) Trading as Victor Lighting**

6 Address: **2112 Fenton Logistics Park Blvd. 388 Hillington Road**  
**Fenton Glasgow**  
**Missouri 63026 G52 4BL**  
**USA UK**

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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 2GD

Ex de IIB+H<sub>2</sub> T6... T5 Gb (-20°C ≤ Ta ≤ +40°C...+55°C) <150 W

Ex de IIB+H<sub>2</sub> T5... T4 Gb (-20°C ≤ Ta ≤ +40°C...+55°C) ≥150 W

Ex de IIB+H<sub>2</sub> T6... T5 Gb (-50°C ≤ Ta ≤ +40°C...+55°C) - LT Version, <150 W

Ex de IIB+H<sub>2</sub> T5... T4 Gb (-50°C ≤ Ta ≤ +40°C...+55°C) - LT Version, ≥150 W

Ex de IIB T6... T5 Gb (-50°C ≤ Ta ≤ +40°C...+55°C) <150 W

Ex de IIB T5... T4 Gb (-50°C ≤ Ta ≤ +40°C...+55°C) ≥150 W

Ex tb IIIC T76°C...T91°C Db (-50°C ≤ Ta ≤ +40°C... +55°C) <150 W

Ex tb IIIC T85°C...T100°C Db (-50°C ≤ Ta ≤ +40°C... +55°C) ≥150 W

IP 66

Project Number 80004511

Signed: J A May

Title: Director of Operations

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CSA Group Netherlands B.V.  
Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

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#### 13 DESCRIPTION OF EQUIPMENT

The PETROBRIGHT KF1L Series LED Luminaire is a floodlight utilising Light Emitting Diodes. The assembly is aluminium and has three separate compartments, a flameproof LED compartment, a flameproof driver compartment and an recessed safety terminal compartment. All compartments provide protection by enclosure (Ex tb). The luminaire may be painted with aluminium metallic flake powder coat. Mounting is provided by a stainless steel, yoke arm.

The terminal box is provided for the connection of 277 VAC max, 195 W max, 50/60 Hz to the luminaire via recessed safety terminals. Cable entry to the terminal box is via metric or NPT threaded holes.

**Variation 1** - This variation introduced the following change:

- i. The introduction of an alternative manufacturing location:  
Hubbell . Trading as Victor Lighting, 388 Hillington Road, Glasgow G52 9AH, UK

**Variation 2** - This variation introduced the following change:

- i. The introduction of three, additional LED drivers, models OT180W/UNV/1250C, OT180W/UNV/1250C, and PLED200W-190-C1050. These are listed as UL R/C on file numbers E320395 and E321253 and allow the equipment to be marked suitable for 195 W, 165 W and 150 W. The product description was revised to increase the maximum wattage from 125 W to 195 W.
- ii. It was recognised that the product wattages quoted on drawing C-23990 have been revised.

**Variation 3** – This variation introduced the following changes:

- i. The certificate holders address was changed:

From:	To:
3940 Dr. Martin Luther King Drive	2112 Fenton Logistics Park Blvd.,
Saint Louis	Fenton
Missouri 63113	Missouri 63026
USA	USA

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	20 August 2014	R70006939A	The release of the prime certificate.
1	11 May 2015	R70023087A	The introduction of Variation 1.
2	17 December 2015	R70046037A	The introduction of Variation 2.



## SCHEDULE

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Issue 4

Issue	Date	Report no.	Comment
3	15 October 2019	1470	<ul style="list-style-type: none"><li>• Transfer of certificate Sira14ATEX1159X from Sira Certification Service to CSA Group Netherlands B.V..</li><li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</li></ul>
4	26 February 2020	R80004511A	The introduction of Variation 3.

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

- 15.1 In accordance with clause 5.1 of EN 60079-1, the critical dimensions of all non-threaded flamepaths are: 9.5 mm minimum in length with a 0.05 mm max gap.
- 15.2 Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1 mm of the metal of the terminal throat.
- 15.3 All terminal screws, used and unused, shall be tightened down to between 1.2 Nm and 2 Nm.
- 15.4 The fixture shall only be installed and wired in an ambient temperature of -10°C to +80°C.

#### 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.

# Certificate Annexe



Certificate Number: Sira14ATEX1159X  
Equipment: PETROBRIGHT KF1L Series LED Luminaire Flood  
Applicant: Killark, a Division of Hubbell . (Delaware)

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## Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
D-23990	1 of 3	A	19 Aug 14	KF1L Assembly, IEC Certification
D-23990	2 of 3	A	20 Aug 14	KF1L Assembly, IEC Certification

## Issue 1

Drawing	Sheets	Rev	Date (Sira stamp)	Title
C - 23990	2 of 3	C	11 May 15	Label drawing

## Issue 2

Drawing	Sheets	Rev	Date (Sira stamp)	Title
D-23990	1 of 3	C	23 Nov 2015	General Assembly
C-23990	2 of 3	D	07 Dec 2015	Label Drawing

Issue 3. No new drawings were introduced.

## Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
C-23990	2 of 3	E	05 Feb 20	KF1L Assembly, IEC Certification Protection Code Ex de, Ex tb

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