



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 19.0115X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2022-05-31)
Date of Issue:	2023-03-14		Issue 2 (2020-07-23)
Applicant:	Streamlight Inc. 30 Eagleville Road Eagleville, PA 19403 United States of America		Issue 1 (2020-04-10)
Equipment:	Flashlight, Vulcan 180 Haz-Lo		Issue 0 (2019-12-30)
Optional accessory:			
Type of Protection:	Intrinsic Safety "ia"		
Marking:	Ex ia IIC T4 Ga -20°C to +40°C		

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2023-03-14

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Streamlight Inc.**
30 Eagleville Road
Eagleville, PA 19403
United States of America

Manufacturing locations: **Streamlight Inc.**
30 Eagleville Road
Eagleville, PA 19403
United States of America

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 Reports:

[US/UL/ExTR19.0131/00](#)
[US/UL/ExTR19.0131/03](#)

[US/UL/ExTR19.0131/01](#)
[US/UL/ExTR19.0131/04](#)

[US/UL/ExTR19.0131/02](#)

Quality Assessment Report:

[NO/NEM/QAR14.0001/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Vulcan 180 Haz-Lo is an LED flashlight that is intrinsically safe when used with Streamlight's lithium-ion rechargeable battery part no. 44352 that is factory installed in the battery compartment of the device. The battery pack consists of three lithium-ion cells that are individually fused and connected in parallel to the Haz-Lo Battery PCB.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The device can only be charged in a non-hazardous environment and the ambient temperature during charging must not exceed 0°C to +35°C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Addition of alternate manufacturer for non-protective components and editorial changes to assembly drawings.

Issue 2: Revision to enclosure body of the Vulcan 180 Haz-Lo.

Issue 3: IEC 60079-0 standard was updated to the 7th Edition; Alternate material options were added and minor circuit revisions.

Issue 4: Handle Grip material was revised and alternate battery cell was added to the device design.

Annex:

[Annex to IECEx UL 19.0115X Issue 4.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Um = 15 VDC

MARKING

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

VULCAN[®] 180 HAZ-LO[®]	
	II 1G Ex ia IIC T4 Ga IECEX UL 19.0115X DEMKO 19 ATEX 2307X
	WARNING: DO NOT OPEN OR CHARGE IN A HAZARDOUS AREA. SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. READ INSTRUCTIONS BEFORE USE. USE ONLY BATTERY P/N 44352.
Assembled in USA	CE 0470 www.streamlight.com
Streamlight Inc. Eagleville, Pa. 19403	