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 SIR 17.0037X**

Certificate history:
Issue 1 (2019-03-29)
Issue 0 (2017-10-27)

Status: **Current**

Issue No: 2

Date of Issue: 2026-03-27

Applicant: **Dialight Corporation**
1501 Route 34 South
Farmingdale
New Jersey 07727
United States of America

Equipment: **Safesite Series LED Area Light**

Optional accessory:

Type of Protection: **Flameproof 'd', Dust Enclosure 't', Increased Safety 'e'**

Marking: **Standard model, with an integral connecting cable**

Ex db IIC T4 Gb	Ex db IIC T5 Gb
Ex tb IIIC T135°C Db	Ex tb IIIC T100°C Db
Ta = -40°C to +65°C	Ta = -40°C to +42°C

Single Wirebox model

Ex db eb IIC T4 Gb	Ex db eb IIC T5 Gb
Ex tb IIIC T135°C Db	Ex tb IIIC T100°C
Ta = -40°C to +65°C	Ta = -40°C to +42°C.

Approved for issue on behalf of the IECEx Certification Body: **Michelle Halliwell**

Position: **Senior Director of Operations**

Signature:
(for printed version)

Date:
(for printed version)

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:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom

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Manufacturer: **Dialight Corporation**
1501 Route 34 South
Farmingdale, NJ 07727
United States of America

Manufacturing locations:

Dialight de México S. de R.L. de C.V. (Plant 1)
C. Lirios S/N, Col. Carlos Pacheco
Ensenada
Baja California 22830
Mexico

Dialight Penang Sdn Bhd
No.1478B, Lorong Perusahaan Maju 8
Kawasan Perusahaan Perai, 13600
Perai
Pulau Pinang
Malaysia

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

GB/SIR/ExTR17.0216/00 GB/SIR/ExTR19.0099/00 GB/SIR/ExTR26.0030/00

Quality Assessment Report:

GB/SIR/QAR11.0014/16

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Safesite series LED Area Light comprises a cast aluminium body and frame with a 12mm thick soda lime toughened glass window, the window being clamped between the frame and main body by sixteen, M8 X 30 mm, stainless steel button-head or cap-head type screws with a minimum property class A2-70.
Internal construction comprises a potted power supply, reflector and up to 207 LEDs dissipating a maximum 0.3 W each.
In the base of the enclosure there is a single entry; this is drilled to a maximum diameter of 26mm and is fitted with a suitably certified and dimensioned cable entry device, coded Ex db IIC Gb / Ex tb IIIC Db, accommodating a permanently attached cable that is supplied in various lengths to suit customer requirements. An aluminium, steel or stainless steel bracket for mounting purposes is fixed via the rear of the enclosure.
Alternatively, the light can be supplied with a component certified increased safety enclosure fitted with component certified increased safety terminals. This enclosure is mounted to the base of the light and is connected to the flameproof enclosure via an equipment certified line bushing.

Refer to the Annexe for Approved components and the model nomenclature.

SPECIFIC CONDITIONS OF USE: YES as shown below:

i. When the equipment is coated with a paint finish the enclosure is non-conducting and may generate an ignition capable level of electrostatic charge under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it might be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment shall be done only with a damp cloth.
ii. External fasteners used for securing flameproof joints shall have a yield strength which is equal to or exceeding 450 N/mm^2.
iii. When supplied with a component certified enclosure, the end user shall install a suitably certified gland with a seal or gasket, to maintain the IP rating of the equipment. The seal or gasket shall be suitable for a minimum service temperature range of -40°C to +78°C.
iv. The equipment has flamepaths which differ from those in IEC 60079-1 and are not intended for repair.
v. The equipment shall be installed such that the supply cable is protected from mechanical damage. The cable shall not be subjected to tension or torque. If the cable is to be terminated within an explosive atmosphere then the free end shall be terminated in a suitably certified termination facility.

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Equipment (continued):

Conditions of Manufacture

1. Each enclosure shall be subjected to a routine overpressure test of 22.82 bar/331 psi for at least 10 seconds as required by clause 16.1 of IEC 60079-1. There shall be no permanent deformation or damage to the enclosure.
2. When supplied with an Increased Safety enclosure, the manufacturer shall conduct a routine dielectric strength test of 1865V r.m.s between Live and Neutral and Live and Neutral to Earth for at least 100 ms, in accordance with clause 7.1 of IEC 60079-7. There shall be no breakdown.
3. The equipment covered by this certificate incorporates previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosive safety design of their products.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1 – this Issue introduced the following changes:

1. To record the addition of alternative manufacturing plants as follows:
   Dialight de México S. de R.L. de C.V. (Plant 1)
   Lirios S/N, Col. Carlos Pacheco
   Ensenada,
   Baja California 22830
   Mexico
   Dialight Corporation Penang Sdn Bhd
   2593, Jalan Perusahaan,
   Kawasan Perusahaan Perai,
   13600 Perai, Pulau Penang
   Malaysia

Issue 2 – this Issue introduced the following changes:

1. Add alternate material for lens ring and foam gasket.
2. Alternate housing
3. Alternate driver design
4. Revise wording for label material
5. Revised drawing 8854HZA0001EX
6. Alternate Junction box with existing approvals
7. Alternate light engine
8. Add HZA and HZJ Series model nomenclature. The same construction documented in this certificate is also in IECEx SIR 11.0156, under a different model scheme. This scheme is to be added to this report.
9. Removal of op is based on IEC 60079-28:2015/ISH1:2019

Annex:

IECEx SIR 17.0037X Issue 2 Annexe_1.pdf

Annexe to: **IECEx SIR 17.0037X Issue 2**

Applicant: **Dialight Corporation**

Apparatus: **Safesite Series LED Area Light**

Model Type	Model Number
Standard Type:	AL*7**2******N or HZA**2N
Single Wirebox Type:	AL*7**2***J**N or HZJA**2N

Type designation key: AL*7**2******N	
1st Asterisk: Certificate;	A: IECEx / ATEX
	G: IECEx / ATEX / UL844
2st Asterisk: Reflector;	A: 180
	B: 360
	W: Wide
3nd Asterisk: CCT & CRI;	C: 5000K Ra 80
	N: 4000K Ra 80
	W: 2700K Ra 80
4rd Asterisk: Typical lumen output;	3: 2,1-3K
	4: 3,1-4K
	5: 4,1-5K
	6: 5,1-6K
	7: 6,1-7K
	9: 8,1-9K
5th Asterisk: Controls;	N: No Options
	D: Continuous dimming down to 5% (for future purposes)
6th Asterisk: Mounting;	B: SS 316 Locking Bracket 0-90 Degrees
	D: 25° Stanchion Mount (S25)
	S: 45° Stanchion Mount (S45)
	U: Universal Mounting Adapter
	V: Standard Wall Mount (W01)
	W: 45° Wall Mount (W45)
	Y: Conveyor Mount (CV34)
7th Asterisk: Hardware/Cable Accessories;	J: Junction Box
	N: No Option
	T: 1.5′ (0.5 meter) Power Cable
	U: 3′ (1 meter) Power Cable
	V: 6′ (1.8 meter) Power Cable
	W: 10′ (3 meter) Power Cable
8th Asterisk: Electrical Accessories;	A: Armoured Cable and Cable Gland.
	N: No Option/Standard
	T: Weidmuller 5 Position Terminal Block
	U: Wago 5 Position Terminal Block
9th Asterisk: Coatings;	G: Gray (RAL 7040)
	K: ACP Black (RAL 9017)
	O: Orange (RAL 2001)
	W: White (RAL 9010)
	Y: Yellow (RAL 1018)
	Z: Bronze (RAL 7022)

CSA Group Testing UK Ltd.
Unit 6 Hawarden Industrial Park,
Hawarden Deeside CH5 3US, UK.

Annexe to: **IECEx SIR 17.0037X Issue 2**

Applicant: **Dialight Corporation**

Apparatus: **Safesite Series LED Area Light**

The previously certified equipment and components are listed below:

Component / Equipment	IEC Certificate	ATEX Certificate
WEIDMULLER KILPPON SRS	IECEx IBE 13.0001U	IBExU12ATEX1145X
Weidmuller Interface GmbH & Co Terminal Strips	IECEx SIR 05.0037U	SIRA 01ATEX3249U
Wago Kontakttechnik GmbH & Co Terminals	IECEx PTB 05.0003U	PTB 03ATEX1189U
Quintex GmbH Line bushing.	IECEx EPS 11.0004X	EPS 11ATEX1342X
Hummel AG Stopping Plug	IECEx BVS 07.0021	DMT 03ATEXE049

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