CERTIFICATE NUMBER	25-0255456-PDA
EFFECTIVE DATE	16-Apr-2025
EXPIRY DATE	15-Apr-2030
ABS TECHNICAL OFFICE	Houston ESD - Electrical

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

DIALIGHT CORPORATION

located at

1501 RT. 34 SOUTH, FARMINGDALE, NJ, United States, 07727

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product:	**Lighting Fixtures, Explosion proof**
Model:	**Lighting fixture Model LSD, LSF, LSC**
Endorsements:	
Tier:	**2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 15/Apr/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Soheni Haque

Soheni Haque, Sr. Managing Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Sensitivity: Internal & Restricted

DIALIGHT CORPORATION
1501 RT. 34 SOUTH
FARMINGDALE NJ
United States 07727
Telephone: 732-919-3119
Fax: 732-751-3190
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Web: dialight.com

Tier: 2 - PDA Issued

Product: **Lighting Fixtures, Explosion proof**
Model: **Lighting fixture Model LSD, LSF, LSC**
Endorsements:

Intended Service:
Marine and Offshore Applicatons - Lighting certified for use in Hazardous Areas on marine vessels and offshore platforms.

Description:
SafeSite Series LED Linear Fixture consists of top conduit, sealing fitting connected with 6.00 inches of luminaire, mounting and accessories with battery backup (LSC series). The linear LED light is 2 feet or 4 feet long, designed and certified for hazardous area application.
LSC series include LSC3C4MEGEX, LSC3C4MNGEX, LSC3N4MEGEX, LSC3N4MNGEX;
LSD and LSF are identical in construction, but have different polycarbonate lens material and certified for different classes for hazardous locations.

Rating:
LSC series:
100 - 277 Vac, 50 / 60 Hz, Max 85 Watt
347 - 480 Vac, 50 / 60 Hz, max. 100 Watt
Class I, Div. 1, Groups C.D and Class I, Div. 2, Groups A, B, C, D
Temperature Code: T4A
Ambient Temperature: -40ºC to +65ºC
LSD and LSF models:
100 - 277 Vac, 50 / 60 Hz, 50 Watt (2 ft model), 100 Watt (4 ft model)
347 - 480 Vac, 50 / 60 Hz, 50 Watt (2 ft model), 100 Watt (4 ft model)
Class I, Div. 2/Class II, Div. 2/Class III, Div.1 and Div. 2 (LSD Model)
Class I, Div. 2/Class II, Div. 1 and Div. 2/Class III, Div. 1 and Div. 2 (LSF model)
Temperature Code: T4 for max ambient of 65ºC, T4A for max ambient of 45ºC, T5 for max ambient of 35ºC

Service Restriction:
1) Unit Certification is not required for this product.
2) If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:
1) Installation, Operating and Safety Instructions are to be provided by the manufacturer.
2) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
3) The accessories of the lighting and external electrical cables are not covered in the subject PDA certificate.

Notes/Drawing/Documentation:
Document No.: 1282025, LED Linear Specification Sheets, UL 844, Issued by Dialight January 2025, Pages: 15
Document No.: 102137662CRT-001R, Intertek Listing Constructional Data Report, Linear Battery Backup LED Luminaire, LSC3 series, Revised date: 8 November 2023, Pages: 74
Document No.: 100259251COQ-001, Intertek Listing Constructional Data Report, Linear LED light, Model family: LS-u-3-v-w-x-y-z, Revised Date: 8 November 2023, Pages: 35
Document No.: ATM 3081714, Intertek Authorization To Mark - Linear Battery Backup LED Luminaire, LSC3 series, ATM issued by Intertek Date: 22 November 2023, Pages: 2
Document No.: ATM 3081714, Intertek Authorization To Mark - Linear LED light that, Model family: LS-u-3-v-w-x-y-z, ATM issued by Intertek Date: 28 November 2023, Pages: 4

Terms of Validity:
This Product Design Assessment (PDA) Certificate remains valid until 15/Apr/2030 or until the Rules and/or

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Tier: 2 - PDA Issued

Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:
2025 Rules for Conditions of Classification, Part 1A: 1A-1-4/7.7, 1A-1-A3, 1A-1-A4 which covers the following:
2025 Marine Vessels Rules: 4-8-3/1.3; 4-8-3/1.7, 4-8-3/1.11; 4-8-3/Table 2; 4-8-3/13.3; 4-8-4/27.5; 4-8-4/27.11

2025 Rules for Conditions of Classification, Part 1B, - Offshore Units: 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which covers the following:
2025 Mobile Offshore Units Rules: 4-3-1/15, 4-3-3/3.1, 4-3-3/9.1.2; 4-3-3/9.3; 4-3-3/Table 1

National:
UL 844, (Ed. 13, 2012 +R: 11Oct2021),
UL 1598 (ed. 4, 2018, Ed.5, 2021),
UL 1598A Ed. 1, 2000, R2015

CSA C22.2 No. 137 (2018 Ed.2),
C22.2 No. 250.0 (2021, Ed.5)

International:
NA

Government:
NA

EUMED:

OTHERS:
NA