CERTIFICATE NUMBER	22-2225572-PDA
EFFECTIVE DATE	18-Mar-2022
EXPIRY DATE	17-Mar-2027
ABS TECHNICAL OFFICE	Houston ESD - Offshore Equipment

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**
Model:	**LTD or LPD Series, LTF or LPF Series**
Endorsements:	
Tier:	**2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 17/Mar/2027 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

Sohail A. Mohammed

Sohail Ahmed Mohammed,Engineer/Consultant

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
Email: jsingh@dialight.com
Web: dialight.com

Tier: 2 - PDA Issued

Product: **Lighting Fixtures**
Model: **LTD or LPD Series, LTF or LPF Series**
Endorsements:

Intended Service:
Marine & Offshore Applications - Lighting for Hazardous Areas.

Description:
SafeSite Linear (LT or LP Series) LED lights

Rating:
SafeSite Linear (LT or LP Series) LED lights - 2' or 4' long

Model/Hazardous Location Ratings:
LTD or LPD Series - Class I, Division 2 - Groups A,B,C,D; Class II, Division 2 - Groups F,G; Class III, Division 1; Class III, Division 2
LTF or LPF Series - Class I, Division 2 - Groups A,B,C,D; Class II, Division 1 - Groups E,F,G; Class II, Division 2 - Groups F,G; Class III, Division 1; Class III, Division 2
Temperature Code: T5 for max ambient of 45 °C for 2' and 4' models; T4A for max ambient of 65°C for 2' and 4' models

Ambient Temperature Range: -40 °C to +65 °C

Operating Voltage: 100-277Vac, 70W Maximum, 60/50Hz

Service Restriction:
- Unit Certification is not required for this product.
- 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:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
Lighting Fixtures are to be so installed as to prevent their hot surfaces from damaging cables and wiring, and from igniting surrounding materials as indicated in Marine Vessel Rules 4-8-4/11.1.1 and Mobile Offshore Unit Rules 4-3-3/3.17.

Notes/Drawing/Documentation:
Drawing No. Ref Doc_1, UL1598/A – Intertek Report # 101070399CRT-001a, Revision: 2, Pages: 1
Drawing No. Ref Doc_2, UL844 – Intertek Report # 101158073COQ-001, Revision: 2, Pages: 1
Drawing No. Ref Doc_3, UL 50/50E – Intertek Test Report # 101228587CRT-001, Revision: 2, Pages: 1
Drawing No. Ref Doc_4, Linear Specsheet, Revision: 1, Pages: 1
Drawing No. Ref Doc_5, ATM for Report 101070399CRT-001a, Revision: 2, Pages: 1
Drawing No. Ref Doc_6, ATM for Report 101158073COQ-001, Revision: 2, Pages: 1
Drawing No. Ref Doc_7, ATM for Report 101228587CRT-001, Revision: 2, Pages: 1
Intertek Report 101158073COQ-001, ETL - Linear LTD_LTF_LPD - UL844, Issued: 10 Jul 2016, Revised: 24 Nov 2015, Pages: 39
Intertek Report 101070399CRT-001, Issued: 12 June 2013, Revised: 25 Jul 2016, Pages: 27
Intertek Report 101228587CRT-001, Issued: 5 Feb 2014, Revised: 14 Dec 2015, Pages: 14

Terms of Validity:
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Tier: 2 - PDA Issued

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:
Rules for Conditions of Classification, Part 1 - 2022 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:
2022 Marine Vessel Rules: 4-8-3/1.3, 1.7, 1.11.1, 4-8-3/Table 2, 4-8-4/1.3;

Rules for Conditions of Classification, Part 1 - 2022 Offshore Units and Structures 1-1-A2, 1-1-A3, which covers the following:
2022 Mobile Offshore Unit Rules: 4-3-1/15, 4-3-3/3.1.1;

National:
UL 844, Luminaries for Use in Hazardous (Classified) Locations, 13th Edition
UL 1598, Standard for Luminaires, Fourth Edition
UL 1598A, Standard for Safety Supplemental Requirements for Luminaires for Installation on Marine Vessels, First Edition

International:
CSA C22.2 No. 137, Electric Luminaires for Use in Hazardous Locations, 2018
CSA C22.2 No. 250, Luminaires, R2013

Government:
NA

EUMED:
NA

OTHERS:
NA