



CERTIFICATE NUMBER

11-LD678508-1-PDA

DATE

12 January 2011

ABS TECHNICAL OFFICE

London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**DIALIGHT EUROPE LIMITED - SUFFOLK**

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: **WPA Safesite™ Series LED Bulkhead Luminaire**

This Product Design Assessment (PDA) Certificate 11-LD678508-1-PDA, dated 12/Jan/2011 remains valid until 11/Jan/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

  
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Wing F. Cheung  
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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

## DIALIGHT EUROPE LIMITED

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*WTC*

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**Product:** Lighting Fixtures, Explosion proof

**Model:** WPA Safesite™ Series LED Bulkhead Luminaire

**Intended Service:**

Marine, Petrochemical and Offshore Hazardous locations, for Zone 1 and Zone 2 ATEX and IECEx installations

**Description:**

LED Bulkhead luminaire suited for most harsh environment applications. Wall mounting brackets and stanchion brackets allow for wall and pole mounting in any orientation. Recess housing allows for use in recessed applications. May be used with any LED colour. Custom designed optics allow targeting illumination.

**Ratings:**

11W or 22W, 100Vac-277Vac, 50/60Hz, 200mA @ 100V, 100mA @ 230V (typical).  
Classification Ex II 2G D Ex d e mb IIC T6 Gb, Ex tb IIIC T85C Db IP66/67,  
use in Gas Zone 1/Dust Zone 21 Hazardous Locations

**Service Restrictions:**

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.

Refer to ATEX/IECEx report available at [www.dialight.com](http://www.dialight.com) for installation restrictions

**Comments:**

Refer to [www.dialight.com](http://www.dialight.com) for instructions prior to installation

**Notes / Drawings / Documentation:**

Certificate of Conformity IECEx BAS 10.0051X; Test Report IECEx GB/BAS/ExTR10.0084/00

**Term of Validity:**

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### **STANDARDS**

**ABS Rules:**

ABS Steel Vessel Rules 2011 1-1-4/7.7, 4-8-3/1.3, 4-8-3/1.11.1, 4-8-3/13.3.2, 4-8-3/13.3.3, 4-8-4/1.3; ABS MODU Rules 2008 4-3-1/15, 4-3-3/3.1.1, 4-3-3/9.1.2

**National:**

NA

**International:**

IEC Standards 60079-0 2007-10 Ed5.0; 60079-1 2007-04 Ed6.0; 60079-7 2006-07 Ed4.0; 60079-18 2009-06 Ed3.0; 60079-31, 2009-03 Ed1.0  
Directives 94/9/EC, 2008/108/EC