Certificate No:
TAE00004H0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
LED Safe Site High Bay Series

Issued to
Dialight Corporation
Wall Township, NJ, USA

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Vibration class	**A**
Degree of protection	**IP 66**
Temp. class	**D**
Voltage (V)	**See Page 2**
Suitable for Hazardous areas	**See Page 2**

Issued at **Hamburg** on **2022-06-01**
This Certificate is valid until **2027-05-31**.
DNV local station: **Houston Offshore Services**

Approval Engineer: **Maik Gagern**

for **DNV**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Safe Site High Bay Series LED Lighting Fixture

Standard Model for Zone 1, 21 *

Type	Nominal Wattage	Voltage
HWAxxx2AxxxxxN	80 W	100-277VAC / 120-250VDC
HWAxxx2BxxxxxN	100 W	100-277VAC / 120-250VDC
HWAxxx2CxxxxxN	130 W	100-277VAC / 120-250VDC
HWAxxx2ExxxxxN	185 W	100-277VAC / 120-250VDC
FSAxxx2AxxxxxN	80 W	100-277VAC / 120-250VDC
FSAxxx2BxxxxxN	100 W	100-277VAC / 120-250VDC
FSAxxx2CxxxxxN	130 W	100-277VAC / 120-250VDC
FSAxxx2ExxxxxN	185 W	100-277VAC / 120-250VDC
Explosion Protection	Ex II 2GD	Ex db eb IIB T5 Gb
		Ex tb IIIC T100°C Db
Type	Nominal Wattage	Voltage
HEAxxx2AxxxxxN	80 W	100-277VAC / 120-250VDC
HEAxxx2BxxxxxN	100 W	100-277VAC / 120-250VDC
HEAxxx2CxxxxxN	130 W	100-277VAC / 120-250VDC
HEAxxx2ExxxxxN	185 W	100-277VAC / 120-250VDC
Explosion Protection	Ex II 2GD	Ex db IIB T5 Gb
		Ex tb IIIC T100°C Db
Numbering Principle		
Digit	4	Lens Options
	5	Optics
	6	Colour / CCT
	9	Controls
	10	Mouting Options
	11	Hardware / Cable Options
	12	Electrical Options
	13	Finish

Application/Limitation

Maker´s instructions are to be observed.
*Note: All details about electrical explosion protection mentioned in this certificate are for information only. For relevant binding information the corresponding Certificate of Conformity with regard to electrical explosion protection, issued by a recognised Authority, shall be observed.
Location Classes:
Vibration: A
Humidity: B
Temperature: D
EMC: A

Type Approval documentation

Tests carried out

DNV Class Guideline DNV-CG-0339, Edition Aug. 2021
DNV Class Programme DNV-CP-0398, Edition Sept. 2021

Marking of product

Manufacturer's name or trade mark – type designation under which the product is type approved – voltage – maximum current - IP class.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE