



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **E-13184**

This is to certify that the
Light Fitting

with type designation(s)
WPA & HZA

Issued to
Dialight Corporation
Farmingdale, United States

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application
Floodlight fixture

Vibration class	A
Enclosure class	IP 66 & 67
Class	NA
Temp. class	NA
Voltage class	100 V to 277 V AC / 24 to 48 V DC
Ex class	See inside

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2014-07-24**

DNV local station: **Newcastle-upon-Tyne**

Approval Engineer: **Nicolay Horn**

for **Det Norske Veritas AS**

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Marit Laumann
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.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Name and place of manufacturer

Dialight Europe Ltd
 York, United Kingdom

Product description

I) LED Bulkhead Fixture ATEX / IECEx Version, type WPA

Technical Info:

Operating voltage	100 - 277 V AC or 24 - 48V DC (11W & 22W)
	100 - 277 V AC (34 W)
Power consumption	11W, 22W & 34W
Operating temperature	-40 °C to +60 °C (11/22W), -40 °C to +50 °C (34W)
Housing	Copper free LM6 aluminium cast
Finish	Light grey epoxy powder coated (RAL7001)
CRI	70
CCI	4,300 K(neutral white), 5,650K (cool white)
Ex Class 11W / 22W	Ex d e mb IIC T6 Gb, Ex tb IIIC T85 °C Db, IP66/67 II 2GD
Ex Class 34W	Ex d e mb IIC T5 Gb, Ex tb IIIC T100 °C Db, IP66/67 II 2GD

II) LED Area light ATEX / IECEx Version, Type HZA

Technical info :

Operating voltage	110 - 277 V AC
Power consumption	43W, 55W & 70W
Operating temperature	-20 °C to +65 °C , (-40 °C to +65 °C also available)
Housing	Powder Coated A360 aluminium
Finish	Polyester / epoxy powder coated (RAL7040 for superior corrosion resistance)
CRI	70
CCI	4,000 K(neutral white), 5,000K (cool white)
Ex Class Ta -20 °C to +65 °C	Ex II 2 GD Ex d IIC T4 Gb
Ex Class Ta -20 °C to +42 °C	Ex II 2 GD Ex d IIC T5 Gb
Ex Class Ta -20 °C to +65 °C	Ex t IIIC T135 °C Db IP6X
Ex Class Ta -20 °C to +42 °C	Ex t IIIC T100 °C Db IP6X

Type Approval documentation

Tests carried out

Type tests in accordance with IEC 60079 & 61547. Vibration test.

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 is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the survey are:

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

Survey shall be performed at least every second year.

END OF CERTIFICATE