

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
KL61Z Kitchen Luminaries, KR61Z Coldroom Luminaries

Issued to

Lightpartner Lichtsysteme GmbH & Co. KG
Bremen, Germany

is found to comply with
DNV GL 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 GL.

Type	Vibration class	Degree of protection	Temp. class	Voltage (V)	Suitable for Hazardous areas
KL61Z Kitchen Luminaries	A	IP56/IP67	A	110 - 240 V	N/A
KR61Z Coldroom Luminaries	A	IP56/67	A	110 - 240 V	N/A

Issued at **Hamburg** on **2018-01-01**

This Certificate is valid until **2022-12-31**.

DNV GL local station: **Bremerhaven**

for **DNV GL**

Approval Engineer: **Maik Gagern**

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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.



Product description

Kitchen Luminaries for galley, kitchen, pantry and provision room

Type designation: KL61Z/KR61Z

Voltage:	110 V – 240V	
Power:	see table below	
Enclosure Protection:	IP 56/67	
Housing Base Plate:	Stainless Steel,	
Light Cover:	Polycarbonate	
Type Designation	Part no.	Power
KL61Z	51060007xx-xxx	2x14 W
KL61Z	51060007xx-xxx	2x17 W
KL61Z	51060007xx-xxx	2x18 W
KL61Z	51060007xx-xxx	2x24 W
KL61Z	51060008xx-xxx	2x28W
KL61Z	51060008xx-xxx	2x32 W
KL61Z	51060008xx-xxx	2x36 W
KL61Z	51060008xx-xxx	2x50 W
KL61Z	51060008xx-xxx	2x54 W
KR61Z S LED	51070xxx ..-xxx	max. 20 W
KR61Z L LED	51070xxx ..-xxx	max. 40 W

Application/Limitation

End user is responsible for correct ingress protection wrt. location.

Type Approval documentation

Tests carried out

Type tests in accordance with EN 60598-1:2015 & Environmental tests in accordance with DNV Standard for Certification No. 2.4 - (Vibration Class A, Humidity Class A & Temperature Class A)

Marking of product

Manufacturer – Type – Model number- Voltage – Output power

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