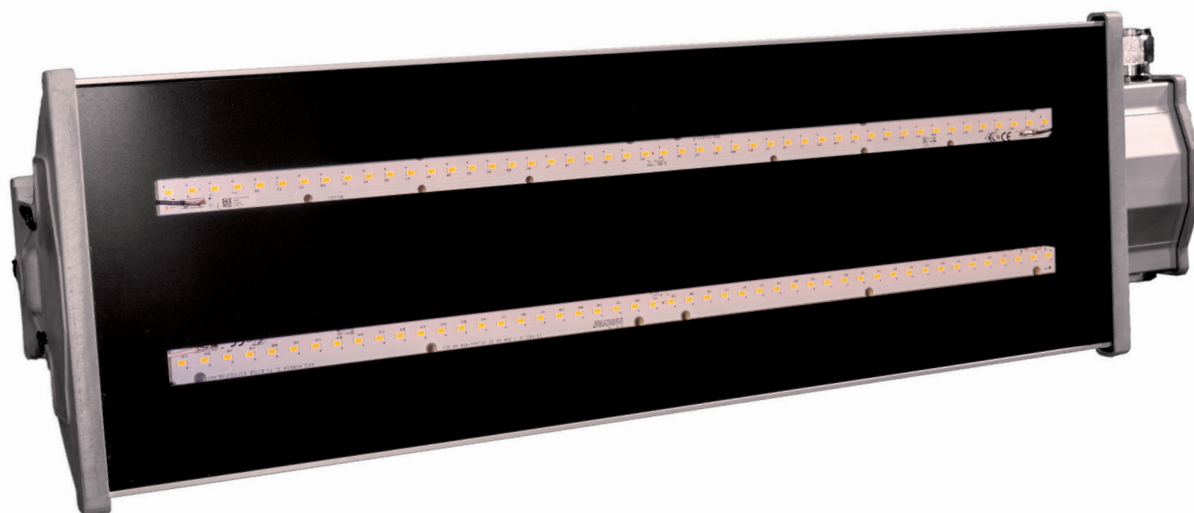


TNAML LED zone 1/21

Maintenance Free Luminaire
>100.000 hours lifetime



Fit & Forget!

Features:

- + >100.000 Hours lifetime at L80B10
- + >130 Lm/W of the luminaire
- + Fit & Forget
- + In accordance with ATEX/IECEX regulations
- + Easy and flexible installation
- + 100% Encapsulated, maintenance free design requiring only visual inspection to IEC/EN 60079-17
- + 100% Leakage test
- + Available with 18W/42W and optional with 1x9W / 1x21W
- + Clear/Frosted lens
- + No condensation due to 100% sealed for life construction
- + Seawater resistant anodized aluminium (in accordance with NORSOK 121)
- + Tempered glass, very high impact resistant, IK 10 (20 joules)
- + Fully recyclable, environmental friendly product
- + Self-locking device for cable gland nuts
- + Self-cleaning glass
- + Safety wire connection

General specifications:

Certificate:	IECEX: INE 18.0037X ATEX: Ineris 18ATEX0039X
ATEX classification:	Group II Category 2 G D
Applicable zones:	1, 2, 21, 22
Applied standards:	EN-IEC 60079-0, EN-IEC 60079-1, EN-IEC 60079-7, EN-IEC 60079-18, EN-IEC60079-28 EN-IEC 60079-31, EN 55015, EN 61000-3-2, EN 61000-3-3
Ex code:	Gas: $\text{Ex II 2 G Ex db eb mb op is IIC T6 Gb}$ Dust: $\text{Ex II 2 D Ex tb IIIC T85°C Db}$
Inspection:	Visual inspection in accordance with EN/IEC 60079-17

Product specifications:

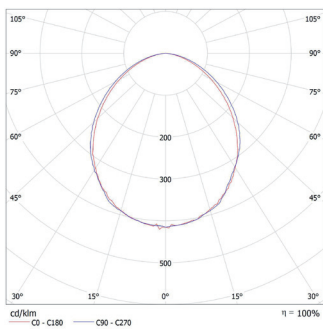
Housing:	Seawater resistant (NORSOK 121) anodized aluminium (25 micron) with tempered glass
Lightsource:	LED
Impact rating:	IK 10 (20 joules)
Ambient temperature range:	-30°C to 55°C
Voltage:	220 - 250 VAC 50/60Hz \pm 5%
Electrical connection:	0,5-6mm ² by spring terminals through integrated external junction box (sealed by resin after installation and test)
Cable entries:	2x M25 cable glands entries, one plugged off
Light colour:	4000°K

Ordering details

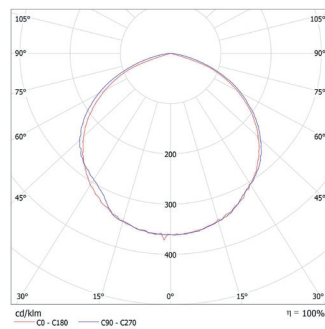
Type	Article code	System Wattage	LED strips	Voltage	Connection	Weight
TNAML-LED18 Clear	ETS1O2JA11Z	19W	2	220 - 250 Vac 50/60Hz	incorporated junction box	7 Kg
TNAML-LED18 Frosted	ETH1O2JA11Z	19W	2	220 - 250 Vac 50/60Hz	incorporated junction box	7 Kg
TNAML-LED42 Clear	ETS1O22KA11Z	42W	4	220 - 250 Vac 50/60Hz	incorporated junction box	10 Kg
TNAML-LED42 Frosted	ETH1O22KA11Z	42W	4	220 - 250 Vac 50/60Hz	incorporated junction box	10 Kg
TNAML-LED18 Clear / Cable	ETS1O2JA15A	19W	2	220 - 250 Vac 50/60Hz	6m flying lead YmvK-as 2x2,5mm	9 Kg
TNAML-LED18 Frosted / Cable	ETH1O2JA15A	19W	2	220 - 250 Vac 50/60Hz	6m flying lead YmvK-as 2x2,5mm	9 Kg
TNAML-LED42 Clear / Cable	ETS1O22KA15A	42W	4	220 - 250 Vac 50/60Hz	6m flying lead YmvK-as 2x2,5mm	12 Kg
TNAML-LED42 Frosted / Cable	ETH1O22KA15A	42W	4	220 - 250 Vac 50/60Hz	6m flying lead YmvK-as 2x2,5mm	12 Kg

Light distribution curves

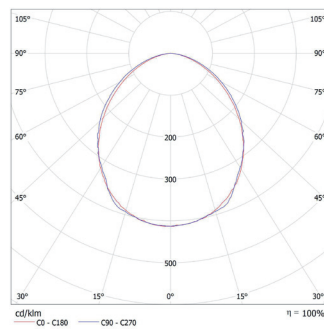
LED42 Frosted



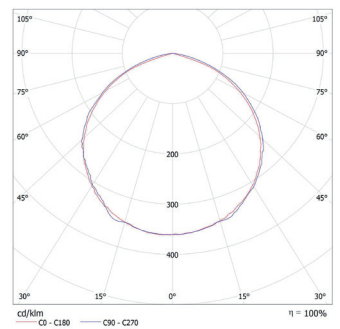
LED42 Clear



LED18 Frosted

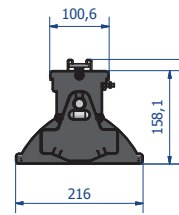
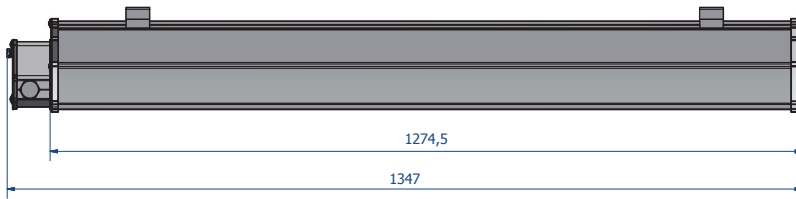


LED18 Clear

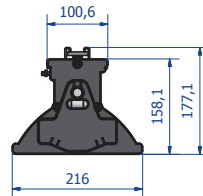
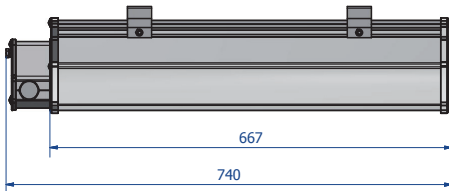


Data for lighting calculations (.ltd files) available upon request.

TNAML LED 42



TNAML LED 18



Total Cost of Ownership

The benefits of installing TNAML® can be shown in a Total Cost of Ownership calculation. For this purpose we have created a software tool to calculate the lifetime cost savings based on input from the client.

Upon request:

Electrical connection:

HACCP:

Safety wire:

Cable Gland Ex e:

Recessed ceiling installation:

Other area classifications:

Mounting brackets:

Cable:

By 6 meter permanent flying lead, braided or AATB connection

For use in accordance with HACCP environment (food industry)

For installation onto a fixing arrangement on the light fitting

Suitable rated cable glands can be supplied with the luminaire (separate package)

Frame for recessed installation in (modular) ceiling systems, painted steel or stainless steel

Zone II and/or safe area industrial version

Pole and ceiling mounting brackets

Specific cable type and length

AATB Connections

