

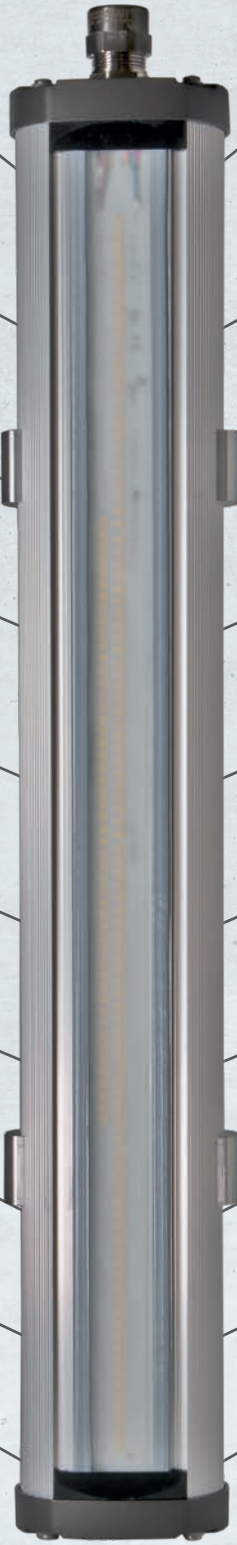
Lifex®, the shift in the new lighting paradigm

CORTEM® GROUP

To be sure to be safe.

We have reduced the size, lowered the weight, shortened the time of installation, removed any type of risk, reduced any maintenance intervention, avoided 70% of the components and saved tons of CO_2.

Lifex®

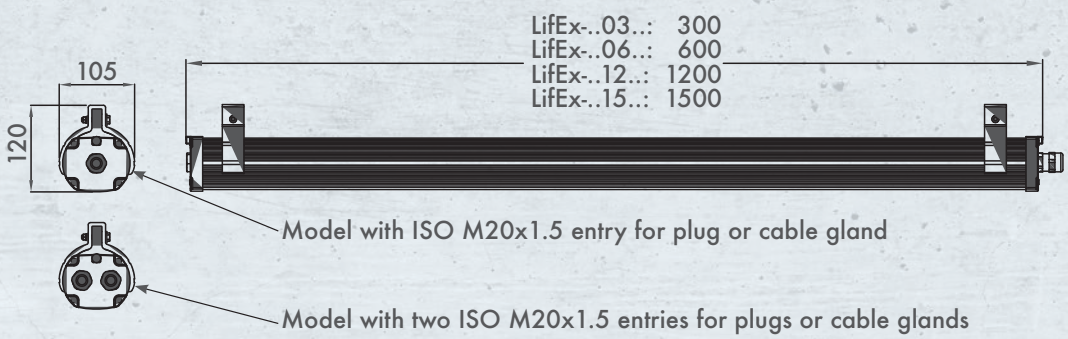


- Reduced glare
- Dimmable
- Low CO_2 generation
- LED technology
- Anodised aluminium
- Loop-in/loop-out
- Available in 4 lengths
- Easy retrofit brackets
- Power from 12 to 120W
- Weight reduced by 40%
- Comprehensively tested
- Low power consumption
- Ex compliant driver
- Wide voltage range
- Innovative styling
- Up to 16.000 lumen
- Affordable costs
- Zone 1, 2, 21, 22
- CRI>80
- Recyclable

We have also eliminated the possibility of improving it.

Reduced dimensions and weight

Careful product architecture oriented towards achieving optimal total life cycle management (circular economy) and maximising working life made it possible to create a compact, lightweight and easy to install lighting fixture that is also extremely robust and durable.



Luminous flux up to 16.000 lumen

From the perspective of electronics and lighting design, the use of LED technology and high-power LED strips allowed us to reach a light output of 16.000 lm with high efficiency and guaranteed durability through time.

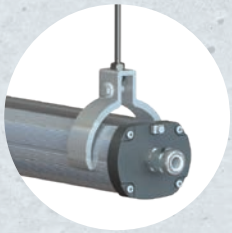
Retrofit brackets

An innovative brackets system, without C/C distance constraints, allows simple installation, easy retrofitting, and the facility to rotate the lighting fixture from -30° to +30°.



from -30° to +30°


LifEx pole mounting


LifEx ceiling mounting (six versions in catalogue)

Comprehensively tested

LifEx has passed, together with all regulatory tests, extra mechanical and electrical tests in addition to those specified in the certificate such as vibration test, IK09 and IPX9, photobiological risk exemption.

Application sectors and zones

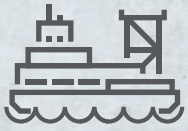

On-shore plants


Off-shore plants


Chemical and petrochemical plants


Agri-food plants


Wastewater treatment plants


Naval installations


Low temperatures

MECHANICAL CHARACTERISTICS

Body:	housing and heads in aluminium alloy resistant to atmospheric corrosion and marine environments
Diffuser:	glass, resistant to thermal shock, impact and UV radiation
Gaskets:	acid and hydrocarbon resistant silicone
Internal frame:	aluminium extrusion
Bolts and screws:	stainless steel
Entries:	max. 4 inlets Ø25.5. Standard version with no.2 Ø20.5 holes complete with no.1 NAV20IB cable gland and no.1 PLG1IB plug. For other versions, caps and cable glands are on request
Assembly:	mounting brackets for M8 holes adjustable from 0° to 30°

ELECTRICAL CHARACTERISTICS

Power unit:	electronic
Rated voltage:	110÷277 Vac/dc (refer to selection tables for details)
Rated frequency:	50/60 Hz
Connection:	directly to terminal board L, N, Pe 4 mm² max section terminal board with jumpers suitable for through-wiring both from single side and from two opposite sides
Emergency unit:	electronic inverter 110/227 Vac 50/60 Hz, 110 -270 Vdc. Ni / Mh batteries, 1.8 Ah or 3 Ah, 6V
Wiring:	high-temperature resistant semi-rigid cables

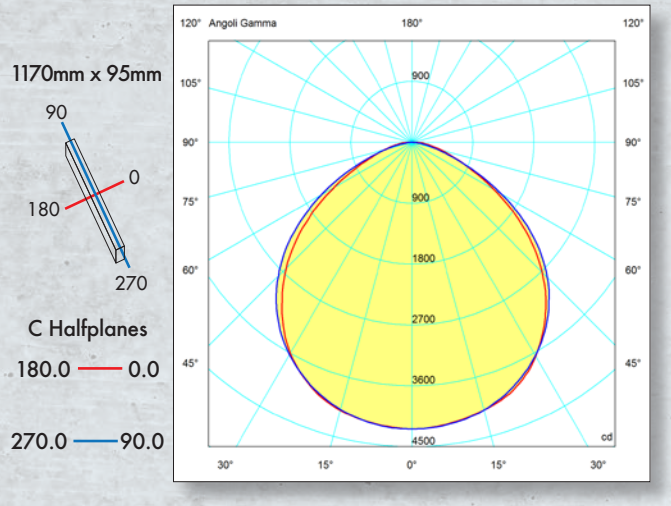
CERTIFICATION DATA

Classification:	group II Category 2 G D
Installation:	zone 1, 2, 21, 22 (LifEx-ME) zone 2, 21, 22 (LifEx-MN)
Marking:	CE 0722 Ex II 2GD - Ex db eb mb IIC T.. Gb - Ex tb IIIC T..°C Db - IP66 CE Ex II 3G - Ex nR IIC T.. Gc CE 0722 Ex II 2D - Ex tb IIIC T..°C Db - IP66
Certified:	ATEX Ex IEC IECEx EAC
Ambient Temp.:	-60°C for versions without battery, -20°C/-60°C for versions with battery
Protection degree:	certified IP66

PHOTOMETRIC CHARACTERISTICS

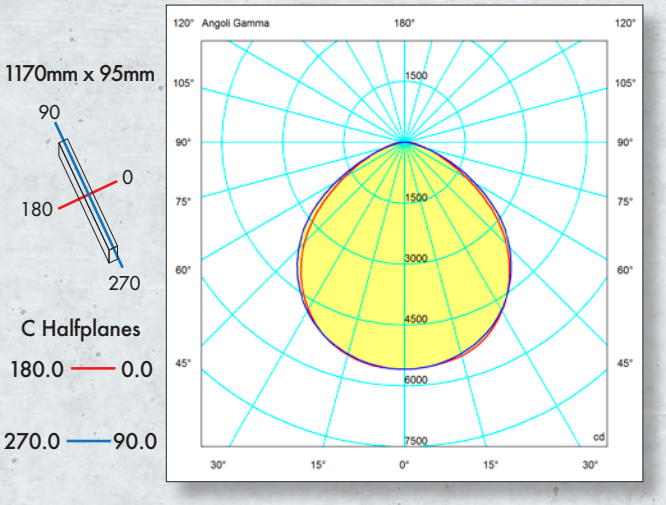
Multichip LED:	mid power
Viewing angle:	120°
Colour temperature:	5000 K
CRI:	> 80
Instant Restrike:	SI
L80:	> 54000 hours

Flux 11925.65 lm
Maximum 352.50 cd/klm
Pos. max. C=300.00 G=2.00
Efficiency: 151.70 lm/W
Asymmetrical



Photometric curve LifEx-MT-1290

Flux 16029.14 lm
Maximum 353.21 cd/klm
Pos. max. C=300.00 G=1.00
Efficiency: 156.29 lm/W
Asymmetrical



Photometric curve LifEx-MT-12120