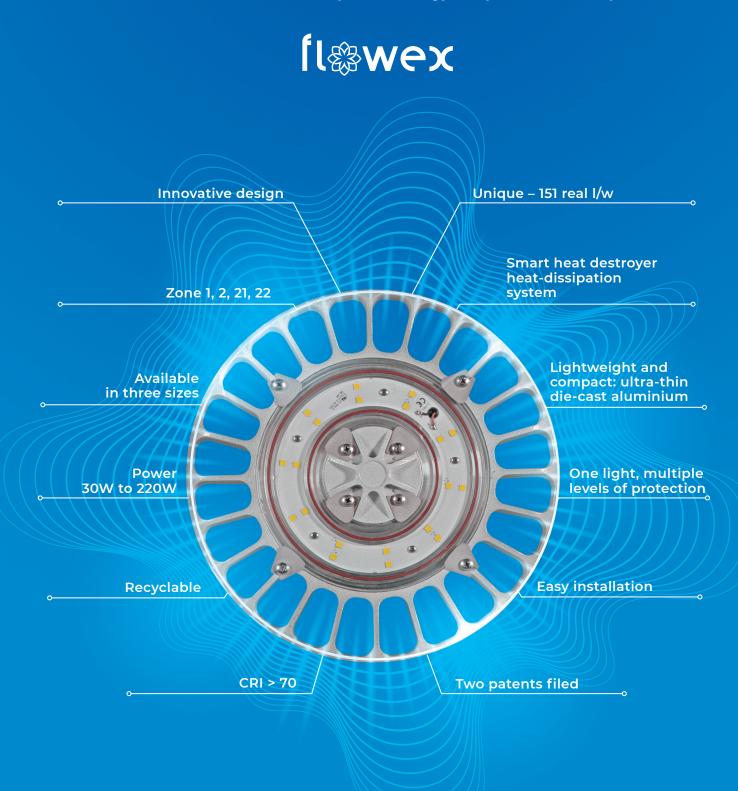
0 G G LET FLOWEX **LIGHT YOUR WAY**



I Wex Discover the new frontier in explosion-proof lighting.

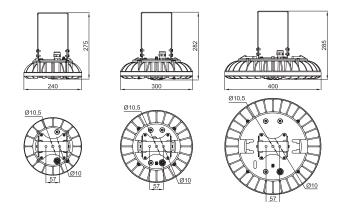


FlowEx is the latest technological revolution from Cortem, combining lighting efficiency, a lightweight build, ease of installation and an adaptability to any type of classified environment. It uses heat-destroyer technology for optimal heat dissipation.



COMPACT SIZES AND INSTALLATION ZONES

FlowEx comes in three different sizes and a wide range of voltages and powers. The FlowEx series has been optimally designed and certified according to installation requirements, combining the concept of an LED with protection levels Gb, Db and Gc suitable for use in classified zones 1, 2, 21 and 22.

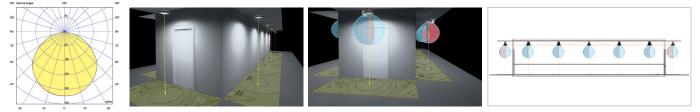


LIGHT OUTPUT OF UP TO 27,961 LUMENS

FlowEx offers a high light output in lumens ranging from 4,784 lm to 27,961 lm and a maximum overall efficacy of 151 lm/W (real and constant), thanks to its high-power LED boards.

LIGHT DISTRIBUTION CURVE AND LIGHTING SIMULATION

FlowEx ceiling-mounted lighting fixtures.



Perimeter lighting on 13m and 3m lengths

Representation of external installation

INNOVATIVE, PATENTED DESIGN

FlowEx's patented finned body with heat-destroyer technology is made of high-quality die-cast aluminium and serves as an excellent heat sink for the circular crown-shaped LED board. The raised central element allows fresh outside air to disperse heat, creating an upward flow of air over the surfaces that exploits natural convection.

Furthermore, the geometric structure of the cooling fins reduces the deposits of combustible dust and allows air or water present in the surrounding area to self-clean the lighting fixture.

SECTORS AND AREAS OF USE





Onshore facilities

Offshore facilities



Chemical and petrochemical facilities



Agribusiness facilities



Waste water treatment plants



Naval installations

Low temperatures

MECHANICAL FEATURES

Body: Aluminium alloy die-cast with low copper content. With cooling fins for high levels of heat dissipation

Front glass: Tempered, resistant to high temperatures and shocks

Seals: Silicone resistant to acids, hydrocarbons and high temperatures

Fastening bracket: Galvanized steel

Screws: Stainless steel

Entry point: 1 ØM20. Fixture complete with a NAV20IB cable gland. Possibility of different holes for cable entry.

Surface finishing: Untreated aluminum or with paint in polyester RAL 7035 (Light grey)

Corrosion resistance: The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

ELECTRICAL FEATURES

	FLOWEX060	FLOWEX080	FLOWEX100	
Supply voltage:	100-277 V AC	100-277 V AC	100-277 V AC	
Rated frequency:	50-60 Hz ±5%	50-60 Hz ±5%	50-60 Hz ±5%	
Connection:	Cable entry directly to the terminal board L, N, PE. Max. 4mm2 cross-section			
Power factor:	>0.95	>0.95	>0.95	
EMC (Electromagnetic Compatibility):	EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3			
THD (Total Harmonic Distor- tion):	<10%			
Over-voltage protection:	4 kV	4 kV	4 kV	
Driver performance levels:	Over-Voltage Protection, Over-Current Protection, Short-Circuit Protection			
Dimming (on request for -MN version only):	(0-10 V) or PWM or resistor	(0-10 V) or PWM or resistor	(0-10 V) or PWM or resistor	

PHOTOMETRIC FEATURES

Multichip LED:	High power LED	High power LED	High power LED
Viewing angle:	120°	120°	120°
Colour temperature:	5000 K	5000 K	5000 K
CRI:	>70	>70	>70
Instant Restrike:	YES	YES	YES
L90:	> 60000 h	> 60000 h	> 60000 h

* Test performed at 230 V AC

CERTIFICATE DATA

Classification:	Group II	Category 2GD/3G		
Installation: EN 60079.14	zone 1, 2, 21, 22 FLOWEX-ME	zone 2, 21, 22 FLOWEX-MN		
Marking:	(€ 0722 🚱 II 2GD - Ex eb mb IIC T Gb - Ex tb IIIC T°C Db IP66		FLOWEX-ME	
	 (€ ⊕ II 3G - Ex nR IIC T Gc IP66 (€ ⊕ II 2D - Ex tb IIIC T°C Db IP66 		FLOWEX-MN	
Certificate:	@ CML 21 ATEX 3606X		FLOWEX-ME	
	 CML 21 ATEX 4607X CML 21 ATEX 3610X 		FLOWEX-MN	
	CML 21.0070X	For all IEC Ex certificate data, download the certificate from www.cortemgroup.com		
Standards:	CENELEC EN60079-0: 2018, EN60079-7: 2015, EN60079-15: 2019, EN60079-18: 2015, EN60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/EU IEC60079-0: 2017, IEC60079-7: 2015, IEC60079-15: 2010, IEC 60079-18: 2014, IEC60079-31: 2013			
Temperature class:	Visit www.cortemgroup.com for the full catalogue			
Ambient temperature:	-60°C +60°C Visit www.cortemgroup.com for the full catalogue			
Degree of protection:	IP66			