

## Weatherproof LED luminaire DUNA FLEX | High Efficiency 8,000lm

70,000 h product life

**5 YEARS**  
warranty

IP 66	IK 03
Frequency 0-50/60Hz	Rated voltage 220-240V
650°C	NON-SELV
UV	+35°C -25°C



DHE 1.5 82-840 ET SMC DPM IX CG

### General characteristics

- LED module luminaire manufactured with high quality materials for a long life product
- The DUNA FLEX High Efficiency delivers you a bright, while overall light with less wattage and less maintenance
- Ideal for applications that require additional chemical resistance for aggressive environment
- With modern aesthetics, designed for easy installation
- Housing in compressed glass fiber reinforced polyester in grey (RAL 7035) integrating two gear tray holders to allow suspension to carry out its connection to the mains. Polyurethane gasket to guarantee an IP66 rating
- Stainless steel clips (INOX)
- Frosted PMMA diffuser with UV protection, manufactured in injection
- Cable gland included

### Applications recommendation

- Chemical industry
- Food and agricultural industry
- Industrial sewage
- Desalination plant
- Paper industry
- Petrochemical industry
- Shipbuilding
- Freezing chambers
- Cold stores

### Mounting possibilities



### Mounting accessories

- Stainless steel fixing brackets and suspension triangles included



### Accessories (optional)

10103049 Suspension wire 2m hook and fastener

### Product Options

- Dimmable driver
- Emergency battery
- Fast connector Wieland
- Other voltages available
- PC diffuser
- Through wiring

### Intelligent Options

- CLO
- HCL
- Data logging
- Data monitoring
- Bluetooth control

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### Functional characteristics

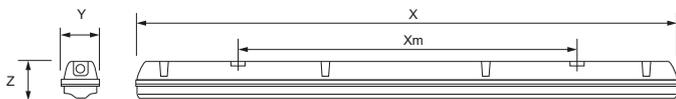
- The long life time of the LEDs decreases maintenance costs
- LED technology integrates low power consumption for greater efficiency, intelligent lighting management through a high frequency sensor, quick and easy installation thanks to plug and play system.
- Extremely safe, with a robust design with a vibration-free components directly reusable without starting time to low ambient temperatures down to -25 °C.

### General technical data

Rated voltage range	220V-240V
Rated frequency	0-50Hz/60Hz
Rated frequency in emergency modus	50Hz/60Hz
Protection class	Class I
Protection rating	IP66
Impact resistance	IK03 PMMA Diffuser
UV protection	Diffuser and body with UV protection
Fire protection	Flammability (UL94): V2 / Glow wire test (EN 60695-2-11): 650°C
THD	< 10%
Chemical agents resistance	See appendix
Color Rendering Index (CRI)	> 80
Type of control gear	Electronic transformer, switchable
Connection method	Terminal block and cable gland

### Operating data | Dimensions

Designation	Special features	Luminous Flux	Efficiency	Connection load	Color Temperature	X	Xm	Y	Z
		lm	lm/W	W	K	mm	mm	mm	mm
DHE 1.5 82-840 ET SMC DPM IX CG		8200	155	53	4000	1573	1100	101	84
DHE 1.5 82-840 ET SMC DPM IX CG 3X1,5	Through wiring 3 x 1.5 mm <sup>2</sup>	8200	155	53	4000	1573	1100	101	84



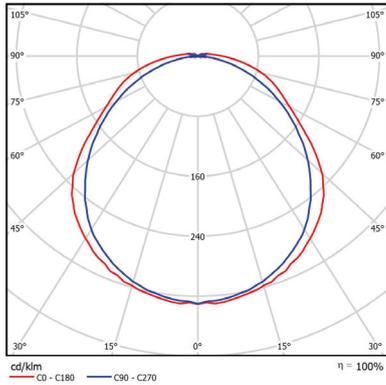
### Logistical data

Designation	Order Number	L x W x H mm	Pcs./Box	Box	Groupage Pcs./Euro palett	Double pallet Pcs./Euro palett
DHE 1.5 82-840 ET SMC DPM IX CG	10172636	1646 x 104 x 84	1	2.3	119	77+77
DHE 1.5 82-840 ET SMC DPM IX CG 3X1,5	10172637	1646 x 104 x 84	1	2.3	119	77+77

Hint: For logistic estimations please contact our sales backoffice team

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### Light characteristic



DHE 1.5 61 SMC DPM IX ET CG

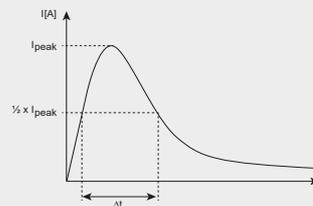
Other models similar distribution with different intensities

### Circuit breaker/inrush current

Order Number	typ. $I_{peak}/\Delta t$	Number of Luminaires on single-pole power circuit breakers (CB)				
		CB-Type	10 A	16 A	20 A	25 A
10172636	36 A / 150 $\mu$ s	B	15	24	30	37
		C	25	40	50	62
10172637	36 A / 150 $\mu$ s	B	15	24	30	37
		C	25	40	50	62

- Data for  $U_{supply} = 230$  VAC, mains impedance = 1  $\Omega$
- In case of multi-polar CB the maximum number is reduced by 20 %
- The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.
- Basically, CB with C-characteristics are recommended to be used in lighting groups.

Typical current-time profile of inrush current



### Product life

T <sup>a</sup> Range	L Value	Lifetime
25°C	L70	70,000 h

### Approvals and markings



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### Conformity to standards

#### Electrical equipment designed to be used with certain voltage limitations

EN 60598-1	Luminaires - Part 1: General requirements and tests
EN 60598-2-1	Luminaires - Part 2: Particular requirements. Section 1: General purpose luminaires

#### Electromagnetic compatibility

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment
EN 61000-3-2	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions
EN 61000-3-3	Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
EN 61547	Equipment for general lighting purposes EMC immunity requirements
EN 62471	Photobiological safety of lamps and lamp system
EN 62493	Assessment of lighting equipment related to human exposure to electromagnetic fields

## APPENDIX

Chemical Agents	Polyester	Polycarbonate	Aluminium	PMMA	Stainless steel
Acetic acid 10%	✓	✓	✓	✓	✓
Acetone	∅	X	✓	X	✓
Alcoholic beverages	✓	✓	✓	∅	✓
Aluminium sulphate	✓	✓	✓	✓	∅
Ammonia 5%	∅	X	✓	✓	✓
Aniline	∅	X	✓	X	✓
Arsenic acid 20%	∅	✓	✓	✓	✓
Benzene	X	X	✓	X	∅
Bencylic alcohol	X	X	∅	X	∅
Bromine	X	X	X	X	X
Calcium Chloride	✓	✓	✓	✓	∅
Calcium nitrate	✓	✓	✓	✓	∅
Carbon tetrachloride	X	X	✓	X	∅
Carbonic acid	✓	X	✓	X	✓
Caustic potash 5%	X	X	X	✓	∅
Cement	✓	✓	✓	✓	∅
Hydrochloric acid 1-5%	∅	✓	X	✓	X
Chlorine liquids (vapours)	X	X	X	X	∅
Chloroform	X	X	✓	X	✓
Chromic acid	X	∅	X	∅	∅
Citric acid 20%	✓	✓	✓	✓	∅
Copper sulphate	✓	✓	X	✓	∅
Diesel-naphta oil	✓	∅	✓	✓	✓
Ethyl alcohol 30%	✓	✓	✓	∅	✓
Ethyl chloride	X	X	∅	X	✓
Ethyl ether	✓	X	✓	X	∅
Food oils and fats	✓	X	✓	✓	✓
Formic acid 10%	∅	✓	X	✓	∅
Glycerine	✓	✓	✓	✓	✓
Hexane	∅	✓	✓	✓	✓
Iodine	✓	X	∅	✓	X
Isopropyl alcohol	✓	∅	✓	∅	∅
Lubricating oil	✓	✓	✓	✓	✓
Magnesium sulphate	✓	✓	✓	✓	✓
Methanol	✓	X	✓	∅	✓
Mineral oils	✓	✓	✓	✓	✓
Nitric acid 20%	X	∅	X	✓	✓
Oxygen	✓	✓	✓	✓	✓
Ozone	✓	✓	✓	✓	∅
Perchloric acid 10%	X	✓	X	✓	X
Petrol	✓	X	✓	✓	✓
Phenol	∅	X	✓	X	∅
Pothassium bromide	✓	✓	∅	✓	∅
Pothassium nitrate	✓	✓	✓	✓	∅
Pothassium permanganate	✓	✓	✓	✓	∅
Sea climate	✓	✓	∅	✓	∅
Silicon oils	✓	✓	✓	∅	✓
Soda bleach 15%	✓	X	∅	✓	∅
Sodium chloride	✓	✓	∅	✓	∅
Sodium hydroxide 5%	✓	X	X	✓	∅
Sodium sulphate	✓	✓	✓	✓	∅
Sugar	✓	✓	✓	✓	✓
Sulphur	✓	✓	✓	✓	∅
Sulphuric acid 30%	X	✓	X	✓	X
Toluene	X	X	✓	X	✓
Trichloroethylene	X	X	✓	X	∅
Zinc sulphate	✓	✓	∅	✓	∅

✓ Resistant    ∅ Relatively resistant    X Non-resistant