IMT

ILED® Dorado Helideck Status Light

CAP 437 Helideck Platforms

Offshore Windfarm Installations

NavAid Systems

ILED® Dorado Helideck Status Light

Overview

The ILED Dorado is hermetically sealed, so as to ensure that environmental conditions do not affect the functionality of the light.

The housing is manufactured from marine grade aluminium alloy – making the product extremely resistant to seawater.

A special and unique thermal management system ensures that the cooling fins of the ILED Dorado provide for highly efficient cooling – even at high ambient temperatures. With no moving parts or mechanisms the light has an extremely high shock and vibration resistance and low maintanance.

The lens is made out of toughened borosilicate glass – which is especially shock resistant and break proof. In utilising the highest quality LEDs, the ILED Dorado has a low maintenance long operating lifetime.

The electronics and IP66 rated junction box are located in the base, the sealing and packing of which is made from highly weather and seawater resistant material, thus ensuring the light is impermeable to moisture.

The ILED Dorado is available either as an Ex-hazardous Area or Industrial Safe Area-version – and both with the option of a bird deterrent spike.
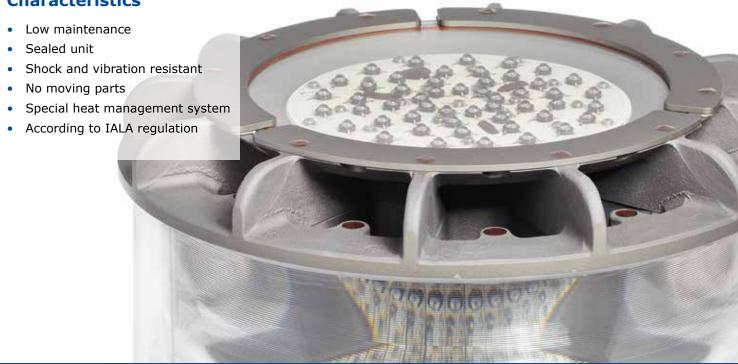
Technical Details

Model	ILED® Dorado Marine Lantern 10 NM
Light source	LED
Luminous intensity	10 NM (>1,400 cd)
Luminous intensity dimmed	--
Flash frequency	Morse Code – "U"
Average power	9 W
Light colour	White
Ambient temperature	-40 °C up to +55 °C
Burning position	Base Down
(Re)ignition	Immediate
Voltage range	24 Vdc ± 10 %
IP Rating	IP66
Horizontal Emission	360°
IEC protection classes	Class 1
Lens	Toughened borosilicate glass
Housing	Marine Grade Aluminium Anodized
Weight of the light fitting	16 kg
Package weight per piece	17 kg
Package dimensions	400x400x380 mm LxWxH
Standard version	Ex e junction box with 3x M25 entries
Information	Control, monitoring and Synchronization from NavAid Central Control Panel Automatic operation via central photocell from NavAid Central Control panel

Certificate Details

ATEX classification	Group II, Category 2, Gas and Dust
Area classification	Category 2 (Zone 1 and 21)
Certificate (IECEx)	IECEx SIR 11.0031X
Certificate (ATEX)	SIRA 11ATEX3053X
Marking	Ex II 2 G Ex e mb IIC T4 Gb Ex II 2 D Ex tb IIIC T135 Db IP66
CE	Yes
According regulations	IALA
ABS Rules PDA Certificate	14-LD1100054C-PDA

Characteristics

• Low maintenance
• Sealed unit
• Shock and vibration resistant
• No moving parts
• Special heat management system
• According to IALA regulation

ILED® Dorado Marine Lantern 15 NM	ILED® Dorado Status Light
LED	LED
15 NM (>12,000 cd)	2 – 10° 700 cd min.
	0 – 90° 176 cd min.
--	60 cd max.
Morse Code – "U"	2 Hz
65 W	80 W
White	Red
-40 °C up to +55 °C	-40 °C up to +55 °C
Base Down	Base Down
Immediate	Immediate
230 Vac ± 5 %	24 Vdc ± 10 %
IP66	IP66
360°	360°
Class 1	Class 1
Toughened borosilicate glass	Toughened borosilicate glass
Marine Grade Aluminium Anodized	Marine Grade Aluminium Anodized
25 kg	16 kg
26 kg	17 kg
400x400x600 mm LxWxH	400x400x380 mm LxWxH
Ex e junction box with 3x M25 entries	Ex e junction box with 3x M25 entries
Control, monitoring and Synchronization from NavAid Central Control Panel	--
Automatic operation via central photocell from NavAid Central Control panel	

Group II, Category 2, Gas and Dust	Group II, Category 2, Gas and Dust
Category 2 (Zone 1 and 21)	Category 2 (Zone 1 and 21)
IECEx SIR 11.0031X	IECEx SIR 11.0031X
SIRA 11ATEX3053X	SIRA 11ATEX3053X
Ex II 2 G Ex e mb IIC T4 Gb	Ex II 2 G Ex e mb IIC T4 Gb
Ex II 2 D Ex tb IIIC T135 Db IP66	Ex II 2 D Ex tb IIIC T135 Db IP66
Yes	Yes
IALA	ICAO Annex 14, CAA CAP 437 & IMO Modu code 2001
14-LD1100054C-PDA	14-LD1100054C-PDA

Optional

Voltage / Power	Status Light	10 NM
	115 Vac ± 5 %/100 W	12 Vdc -10 %/+20 %/10.0 W
	230 Vac ± 5 %/100 W	115 Vac ± 5 %/13.5 W
		230 Vac ± 5 %/13.5 W
Cable	On request	
Facility for synchronisation through GPS	On request	
Bird spike	On request	
Mounting	On request	
Pedestal	On request	

Fresnel Lens, Borosilicate Glass

IMT® ILED® Technology
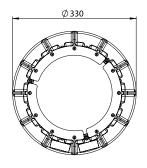
Efficient Cooling
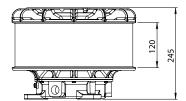
Marine Lantern System

The ILED® Dorado Marine Lantern produces an extraordinary light output of 10 nautical miles with a power consumption of only 9 watts.

ILED® Dorado

⌀ 330

24 Vdc

120
245

115 Vac and 230 Vac

404

⌀ 240
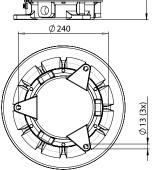
⌀ 13 (3x)

12 Vdc

429
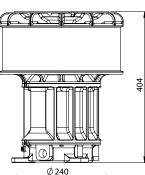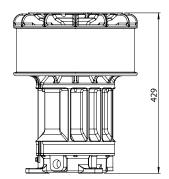
Articel Code	Version	Wattage	Voltage	Connection	Weight
ELUA1JAFA243	10 NM – Ex	9 W	24 Vdc	Ex e junction box with 3x M25 entries	17 kg
ELUAFJAFA243	10 NM – Ex	13.5 W	115 Vac	Ex e junction box with 3x M25 entries	25 kg
ELUA4JAFA243	10 NM – Ex	13.5 W	230 Vac	Ex e junction box with 3x M25 entries	25 kg
ELUAGJAFA243	10 NM – Ex	10 W	12 Vdc	Ex e junction box with 3x M25 entries	25 kg
ELUA4JAGA243	15 NM – Ex	65 W	230 Vac	Ex e junction box with 3x M25 entries	25 kg
ELWA1HAJA243	Status Light – Ex	80 W	24 Vdc	Ex e junction box with 3x M25 entries	17 kg
ELWAFHAJA243	Status Light – Ex	100 W	115 Vac	Ex e junction box with 3x M25 entries	25 kg
ELWA4HAJA243	Status Light – Ex	100 W	230 Vac	Ex e junction box with 3x M25 entries	25 kg

Accessories

Article Code	Version	Weight
CDI0200	Pedestal for Dorado Lantern	1.36 kg