



# Product Description

## TORNADO

The Helix range is a twist-shape compact fluorescent lamp, with optimal light distribution. It is available in 11W, 15W, 20W and 23W (25W), with lumen equivalence of 60W, 75W, 100W and 125W incandescent light bulb. It is also available in two color temperatures: warm white (2700K) and cool daylight (6500K). It is available in both 220-240V and 120-127V and able to operate under a wide voltage range (Power supply fluctuation). It consumes up to 80% less energy than the incandescent light bulb and lasts for 3 years.

### Benefits

- Very compact size and wide range allowing easy replacement of most GLS lamps from 25 W up to 150 W
- More than 80% energy saving effect compared with incandescent lamps of similar light output
- Fewer lamp replacements. Fit & forget.

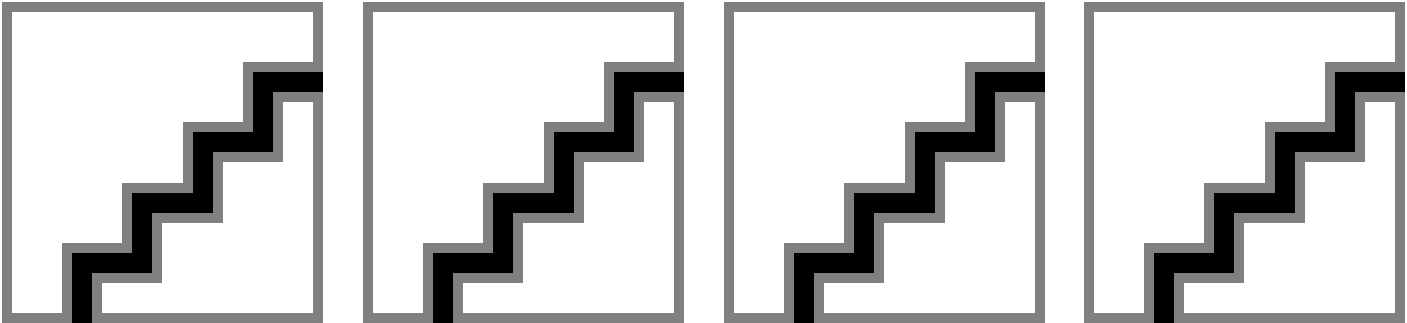
### Features

- Spiral-shaped alternative to incandescent lamps
- High energy efficiency
- Long-life alternative to incandescent lamps

### Application

- The Helix range is widely used to replace incandescent light bulb at all kinds of applications, especially where require intensive light output.
- It is not suitable for dimming and electronic devices

Versions



Dimensional drawing

Product	D (max)	C (max)	F (max)
TORNADO 12W CDL E27 220-240V 1CT/12	47.5 mm	94.0 mm	40.5 mm

Product	D (max)	C (max)	F (max)
TORNADO 20W CDL B22 220-240V 1CT/12	56.5 mm	110.0 mm	47 mm

Product	D (max)	C (max)	F (max)
TORNADO 15W CDL B22 220-240V 1CT/12	51.5 mm	106.0 mm	42.5 mm

Dimensional drawing

Product	D (max)	C (max)	F (max)
TORNADO 15W CDL E27 220-240V 1CT/12	51.5 mm	107.5 mm	42.5 mm

Approval and Application	
Energy Efficiency Label (EEL)	A
Controls and Dimming	
Dimmable	no
Operating and Electrical	
Input Frequency	50 or 60 Hz
Voltage (Nom)	220-240 V
Starting Time (Nom)	0.3 s
Warm Up Time To 60% Light (Max)	60 s
Warm Up Time To 60% Light (Min)	5 s
General Information	
Nominal Lifetime (Nom)	8000 h
Rated Lifetime (Hours)	8000 h
Switching Cycle	5000X
Light Technical	
Chromaticity Coordinate X (Nom)	313
Chromaticity Coordinate Y (Nom)	337
Colour Code	865
Colour Designation	Cool Daylight
Correlated Colour Temperature (Nom)	6500 K
Colour Rendering Index (Nom)	80
LLmf At End Of Nominal Lifetime (Nom)	70 %
Lumen Maintenance 2000 h (Nom)	85 %
Lumen Maintenance 5000 h (Nom)	75 %
Mechanical and Housing	
Bulb Shape	Spiral

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
73091000	TORNADO 15W CDL E27 220-240V 1CT/12	15 kWh	-
73103000	TORNADO 15W CDL B22 220-240V 1CT/12	15 kWh	1.5 mg
73107800	TORNADO 20W CDL B22 220-240V 1CT/12	20 kWh	1.5 mg
73123800	TORNADO 12W CDL E27 220-240V 1CT/12	12 kWh	1.5 mg

Operating and Electrical

# TORNADO

Order Code	Full Product Name	Lamp Current (Nom)	Wattage Equivalent	Power (Rated) (Nom)
73091000	TORNADO 15W CDL E27 220-240V 1CT/12	110 mA	75 W	15 W
73103000	TORNADO 15W CDL B22 220-240V 1CT/12	110 mA	75 W	15 W

Order Code	Full Product Name	Lamp Current (Nom)	Wattage Equivalent	Power (Rated) (Nom)
73107800	TORNADO 20W CDL B22 220-240V 1CT/12	150 mA	100 W	20 W
73123800	TORNADO 12W CDL E27 220-240V 1CT/12	90 mA	60 W	12 W

## General Information

Order Code	Full Product Name	Cap-Base
73091000	TORNADO 15W CDL E27 220-240V 1CT/12	E27
73103000	TORNADO 15W CDL B22 220-240V 1CT/12	B22

Order Code	Full Product Name	Cap-Base
73107800	TORNADO 20W CDL B22 220-240V 1CT/12	B22
73123800	TORNADO 12W CDL E27 220-240V 1CT/12	E27

## Light Technical

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
73091000	TORNADO 15W CDL E27 220-240V 1CT/12	61 lm/W	900 lm	900 lm
73103000	TORNADO 15W CDL B22 220-240V 1CT/12	61 lm/W	900 lm	900 lm

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
73107800	TORNADO 20W CDL B22 220-240V 1CT/12	61 lm/W	1200 lm	1200 lm
73123800	TORNADO 12W CDL E27 220-240V 1CT/12	58 lm/W	700 lm	700 lm

