



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

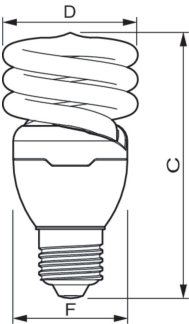
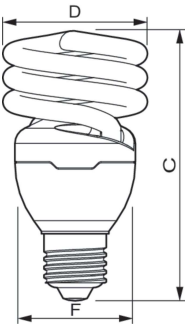
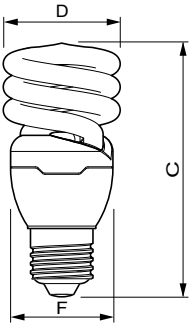
Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.

Versions



Dimensional drawing



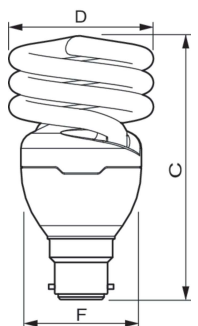
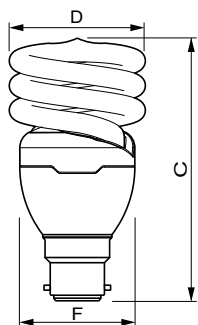
Product	D (max)	C (max)	F (max)
TORNADO 15W CDL E27 220-240V 1PF/6	51.5 mm	107.5 mm	42.5 mm

Product	D (max)	C (max)	F (max)
TORNADO 24W CDL E27 220-240V 1PF/6	61.5 mm	118.5 mm	50.5 mm
TORNADO 24W WW E27 220-240V 1PF/6	61.5 mm	118.5 mm	50.5 mm

Product	D (max)	C (max)	F (max)
TORNADO 20W CDL E27 220-240V 1PF/6	56.5 mm	111.5 mm	47 mm
TORNADO 20W WW E27 220-240V 1PF/6	56.5 mm	111.5 mm	47 mm

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Dimensional drawing



Product	D (max)	C (max)	F (max)
TORNADO 20W CDL B22 220-240V 1PF/6	56.5 mm	110.0 mm	47 mm
TORNADO 20W WW B22 220-240V 1PF/6	56.5 mm	110.0 mm	47 mm

Product	D (max)	C (max)	F (max)
TORNADO 24W CDL B22 220-240V 1PF/6	61.5 mm	117 mm	50.5 mm
TORNADO 24W WW B22 220-240V 1PF/6	61.5 mm	117 mm	50.5 mm

General Information	
Rated Lifetime (Hours)	8,000 hour(s)
Switching Cycle	5,000
Nominal lifetime	8,000 hour(s)
Light Technical	
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 or 60 Hz
Line Frequency	50 or 60 Hz
Voltage (Nom)	220-240 V
Starting Time (Nom)	0.3 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Shape	Spiral

General Information

Order Code	Full Product Name	Cap-Base
929689848205	TORNADO 15W CDL E27 220-240V 1PF/6	E27
929689848306	TORNADO 20W WW E27 220-240V 1PF/6	E27
929689848405	TORNADO 20W CDL E27 220-240V 1PF/6	E27
929689848506	TORNADO 24W WW E27 220-240V 1PF/6	E27
929689848605	TORNADO 24W CDL E27 220-240V 1PF/6	E27
929689858302	TORNADO 20W WW B22 220-240V 1PF/6	B22
929689858402	TORNADO 20W CDL B22 220-240V 1PF/6	B22
929689858502	TORNADO 24W WW B22 220-240V 1PF/6	B22
929689858602	TORNADO 24W CDL B22 220-240V 1PF/6	B22

Light Technical (1/2)

TORNADO

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)
929689848205	TORNADO	313	337	Cool	6500 K
	15W CDL			Daylight	
	E27				
	220-240V				
929689848306	TORNADO	463	420	Warm White (WW)	2700 K
	20W WW				
	E27				
	220-240V				
929689848405	TORNADO	313	337	Cool	6500 K
	20W CDL			Daylight	
	E27				
	220-240V				
929689848506	TORNADO	463	420	Warm White (WW)	2700 K
	24W WW				
	E27				
	220-240V				
929689848605	TORNADO	313	337	Cool	6500 K
	24W CDL			Daylight	
	E27				

Light Technical (2/2)

Order Code	Full Product Name	Color rendering index (CRI)	Color Code	Luminous Efficacy (rated) (Nom)	Luminous Flux
929689848205	TORNADO 15W	80	865	61 lm/W	900 lm
	CDL E27 220-240V				
	1PF/6				
929689848306	TORNADO 20W	82	827	65 lm/W	1,250 lm
	WW E27 220-240V				
	1PF/6				
929689848405	TORNADO 20W	80	865	61 lm/W	1,200 lm
	CDL E27 220-240V				
	1PF/6				
929689848506	TORNADO 24W	82	827	67 lm/W	1,550 lm
	WW E27 220-240V				
	1PF/6				
929689848605	TORNADO 24W	80	865	63 lm/W	1,450 lm
	CDL E27 220-240V				
	1PF/6				

Operating and Electrical

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)
929689858302	220-240V				
	1PF/6				
929689858302	TORNADO	463	420	Warm White (WW)	2700 K
	20W WW				
	B22				
	220-240V				
929689858402	TORNADO	313	337	Cool	6500 K
	20W CDL			Daylight	
	B22				
	220-240V				
929689858502	TORNADO	463	420	Warm White (WW)	2700 K
	24W WW				
	B22				
	220-240V				
929689858602	TORNADO	313	337	Cool	6500 K
	24W CDL			Daylight	
	B22				
	220-240V				
	1PF/6				

Order Code	Full Product Name	Color rendering index (CRI)	Color Code	Luminous Efficacy (rated) (Nom)	Luminous Flux
929689858302	TORNADO 20W	82	827	65 lm/W	1,250 lm
	WW B22 220-240V				
	1PF/6				
929689858402	TORNADO 20W	80	865	61 lm/W	1,200 lm
	CDL B22 220-240V				
	1PF/6				
929689858502	TORNADO 24W	82	827	67 lm/W	1,550 lm
	WW B22 220-240V				
	1PF/6				
929689858602	TORNADO 24W	80	865	63 lm/W	1,450 lm
	CDL B22 220-240V				
	1PF/6				

TORNADO

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
929689848205	TORNADO 15W CDL E27 220-240V 1PF/6	110 mA	15 W
929689848306	TORNADO 20W WW E27 220-240V 1PF/6	150 mA	20 W
929689848405	TORNADO 20W CDL E27 220-240V 1PF/6	150 mA	20 W
929689848506	TORNADO 24W WW E27 220-240V 1PF/6	170 mA	23 W
929689848605	TORNADO 24W CDL E27 220-240V 1PF/6	170 mA	23 W

Order Code	Full Product Name	Lamp Current (Nom)	Power Consumption
929689858302	TORNADO 20W WW B22 220-240V 1PF/6	150 mA	20 W
929689858402	TORNADO 20W CDL B22 220-240V 1PF/6	150 mA	20 W
929689858502	TORNADO 24W WW B22 220-240V 1PF/6	170 mA	23 W
929689858602	TORNADO 24W CDL B22 220-240V 1PF/6	170 mA	23 W

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
929689848205	TORNADO 15W CDL E27 220-240V 1PF/6	15 kWh	-
929689848306	TORNADO 20W WW E27 220-240V 1PF/6	20 kWh	1.5 mg
929689848405	TORNADO 20W CDL E27 220-240V 1PF/6	20 kWh	1.5 mg
929689848506	TORNADO 24W WW E27 220-240V 1PF/6	23 kWh	2 mg
929689848605	TORNADO 24W CDL E27 220-240V 1PF/6	23 kWh	2 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
929689858302	TORNADO 20W WW B22 220-240V 1PF/6	20 kWh	1.5 mg
929689858402	TORNADO 20W CDL B22 220-240V 1PF/6	20 kWh	1.5 mg
929689858502	TORNADO 24W WW B22 220-240V 1PF/6	23 kWh	2 mg
929689858602	TORNADO 24W CDL B22 220-240V 1PF/6	23 kWh	2 mg

