



# Combining superior high lumen, design & performance

## Tornado High Lumen

Energy saving lamp in spiral shape, with superior performance (long life, high switching) and high lumen warm bright light. Perfectly suitable to be used in places where high lumen is required, and the lamp is directly visible.

### Benefits

- Simple installation – no ballast needed
- Save your money with long life-time
- Perfect energy-saving solution for mercury lamps replacement

### Features

- Long-Life and Energy saving alternative to Incandescent lamps
- Suitable for frequent switching
- Flawless ignition at -10°C and up
- Ambient temperature range to ensure almost constant light output: 0 - 50°C

### Application

- Designed primarily for professional applications (hotels, restaurants, shops), ideally high-bay type indoor applications; not suitable for household room illumination
- Enclosed fixtures required for outdoor applications
- Not suitable for use with dimmers or electronic gear

## Tornado High Lumen

### Warnings and Safety

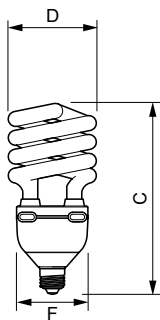
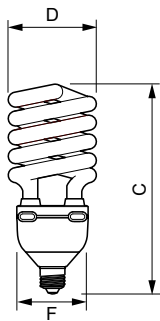
- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact 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



75,0 W E40, spirála

### Dimensional drawing



Product	C (max)	F (max)	D (max)
Tornado High Lumen 60W CDL E27 1CT/6	262 mm	88.1 mm	102 mm
Tornado High Lumen 60W WW E27 1CT/6	262 mm	88.1 mm	102 mm

Product	C (max)	F (max)	D (max)
Tornado High Lumen 45W CDL E27 1CT/6	244 mm	88.1 mm	102 mm
Tornado High Lumen 45W WW E27 1CT/6	244 mm	88.1 mm	102 mm

# Tornado High Lumen

## Dimensional drawing

Product	C (max)	F (max)	D (max)
Tornado High Lumen 75W WW E40 1CT/6	293 mm	88.1 mm	102 mm
Tornado High Lumen 75W CDL E40 1CT/6	293 mm	88.1 mm	102 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)	1.5 s
Warm Up Time To 60% Light (Max)	60 s
General Information	
Nominal Lifetime (Nom)	10000 h
Rated Lifetime (Hours)	10000 h
Switching Cycle	10,000X
Light Technical	
Colour Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	60 %
Lumen Maintenance 2000 h (Nom)	88 %
Mechanical and Housing	
Bulb Shape	Spiral

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h	Mercury (Hg) Content (Max)
80822300	Tornado High Lumen 45W WW E27 1CT/6	45 kWh	3.5 mg
80719600	Tornado High Lumen 45W CDL E27 1CT/6	45 kWh	3.5 mg
80824700	Tornado High Lumen 60W WW E27 1CT/6	60 kWh	5 mg
80721900	Tornado High Lumen 60W CDL E27 1CT/6	60 kWh	5 mg
80832200	Tornado High Lumen 75W WW E40 1CT/6	75 kWh	5 mg
80723300	Tornado High Lumen 75W CDL E40 1CT/6	75 kWh	5 mg

## Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
80822300	Tornado High Lumen 45W WW E27 1CT/6	190 mA	45.0 W
80719600	Tornado High Lumen 45W CDL E27 1CT/6	190 mA	45.0 W
80824700	Tornado High Lumen 60W WW E27 1CT/6	270 mA	60.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
80721900	Tornado High Lumen 60W CDL E27 1CT/6	270 mA	60.0 W
80832200	Tornado High Lumen 75W WW E40 1CT/6	350 mA	75.0 W
80723300	Tornado High Lumen 75W CDL E40 1CT/6	350 mA	75.0 W

## General Information

## Tornado High Lumen

Order Code	Full Product Name	Cap-Base
80822300	Tornado High Lumen 45W WW E27 1CT/6	E27
80719600	Tornado High Lumen 45W CDL E27 1CT/6	E27
80824700	Tornado High Lumen 60W WW E27 1CT/6	E27

Order Code	Full Product Name	Cap-Base
80721900	Tornado High Lumen 60W CDL E27 1CT/6	E27
80832200	Tornado High Lumen 75W WW E40 1CT/6	E40
80723300	Tornado High Lumen 75W CDL E40 1CT/6	E40

### Light Technical (1/2)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
80822300	Tornado High Lumen 45W WW E27 1CT/6	463	420	827	Warm White (WW)
80719600	Tornado High Lumen 45W CDL E27 1CT/6	313	337	865	Cool Daylight
80824700	Tornado High Lumen 60W WW E27 1CT/6	463	420	827	Warm White (WW)

Order Code	Full Product Name	Chromaticity		Colour	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Colour Designation
80721900	Tornado High Lumen 60W CDL E27 1CT/6	313	337	865	Cool Daylight
80832200	Tornado High Lumen 75W WW E40 1CT/6	463	420	827	Warm White (WW)
80723300	Tornado High Lumen 75W CDL E40 1CT/6	313	337	865	Cool Daylight

### Light Technical (2/2)

Order Code	Full Product Name	Correlated Colour Temperature	Luminous Efficacy (rated)	Luminous Flux (Nom)	Luminous Flux (Rated)
		(Nom)	(Nom)	(Nom)	(Nom)
80822300	Tornado High Lumen 45W WW E27 1CT/6	2700 K	68.38 lm/W	3080 lm	3080 lm
80719600	Tornado High Lumen 45W CDL E27 1CT/6	6500 K	68.38 lm/W	3080 lm	3080 lm
80824700	Tornado High Lumen 60W WW E27 1CT/6	2700 K	71.63 lm/W	4300 lm	4300 lm

Order Code	Full Product Name	Correlated Colour Temperature	Luminous Efficacy (rated)	Luminous Flux (Nom)	Luminous Flux (Rated)
		(Nom)	(Nom)	(Nom)	(Nom)
80721900	Tornado High Lumen 60W CDL E27 1CT/6	6500 K	71.63 lm/W	4300 lm	4300 lm
80832200	Tornado High Lumen 75W WW E40 1CT/6	2700 K	73.96 lm/W	5550 lm	5550 lm
80723300	Tornado High Lumen 75W CDL E40 1CT/6	6500 K	73.96 lm/W	5550 lm	5550 lm

