# **PHILIPS** Lighting



# 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
- $\cdot$  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
- $\cdot$  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

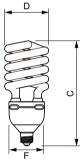


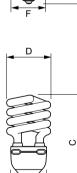




75,0 W E40, spirála

# 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) А **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 60 % (Nom) Lumen Maintenance 2000 h (Nom) 88 % Mechanical and Housing Bulb Shape Spiral

#### Approval and Application

		Energy Consumption kWh/	Mercury (Hg) Content
Order Code	Full Product Name	1000 h	(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**

	Lamp Current	Power (Rated)			Lamp Current	
Full Product Name	(Nom)	(Nom)	Order Code	Full Product Name	(Nom)	
Tornado High Lumen 45W WW E27	190 mA	45.0 W	80721900	Tornado High Lumen 60W CDL E27	270 mA	
1CT/6				1CT/6		
Tornado High Lumen 45W CDL E27	190 mA	45.0 W	80832200	Tornado High Lumen 75W WW E40	350 mA	
1CT/6				1CT/6		
Tornado High Lumen 60W WW E27	270 mA	60.0 W	80723300	Tornado High Lumen 75W CDL E40	350 mA	-
1CT/6				1CT/6		
	Tornado High Lumen 45W WW E27 1CT/6 Tornado High Lumen 45W CDL E27 1CT/6 Tornado High Lumen 60W WW E27	Full Product Name(Nom)Tornado High Lumen 45W WW E27190 mA1CT/6190 mA1CT/6190 mA1CT/6270 mA	Full Product Name  (Nom)  (Nom)    Tornado High Lumen 45W WW E27  190 mA  45.0 W    1CT/6	Full Product Name(Nom)Order CodeTornado High Lumen 45W WW E27190 mA45.0 W807219001CT/6100 mA45.0 W808322001CT/6100 mA45.0 W808322001CT/6270 mA60.0 W80723300	Full Product Name(Nom)Order CodeFull Product NameTornado High Lumen 45W WW E27190 mA45.0 W80721900Tornado High Lumen 60W CDL E271CT/6100 mA45.0 W80832200Tornado High Lumen 75W WW E401CT/6100 mA45.0 W100 mA1CT/6100 mA45.0 W80832200Tornado High Lumen 75W WW E401CT/6100 mA60.0 W80723300Tornado High Lumen 75W CDL E40	Full Product Name(Nom)Order CodeFull Product Name(Nom)Tornado High Lumen 45W WW E27190 mA45.0 W80721900Tornado High Lumen 60W CDL E27270 mA1CT/6

## **General Information**

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# **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)

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

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

#### Light Technical (2/2)

		Correlated	Luminous		Luminous			Correlated	Luminous		
		Colour	Efficacy		Flux			Colour	Efficacy		
Order	Full Product	Temperature	(rated)	Luminous	(Rated)	Order	Full Product	Temperature	(rated)	Luminous	
Code	Name	(Nom)	(Nom)	Flux (Nom)	(Nom)	Code	Name	(Nom)	(Nom)	Flux (Nom)	
80822300	Tornado High	2700 K	68.38 lm/W	3080 lm	3080 lm	80721900	Tornado High	6500 K	71.63 lm/W	4300 lm	
	Lumen 45W						Lumen 60W				
	WW E27 1CT/6						CDL E27 1CT/6				
80719600	Tornado High	6500 K	68.38 lm/W	3080 lm	3080 lm	80832200	Tornado High	2700 K	73.96 lm/W	5550 lm	
	Lumen 45W						Lumen 75W				
	CDL E27 1CT/6						WW E40 1CT/6				
30824700	Tornado High	2700 K	71.63 lm/W	4300 lm	4300 lm	80723300	Tornado High	6500 K	73.96 lm/W	5550 lm	
	Lumen 60W						Lumen 75W				
	WW E27 1CT/6						CDL E40 1CT/6				



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