



Spreadhead spiral shape energy saving products, preferred by over 90% of consumers

Tornado T2

Tornado has outstanding brightness which makes your colors appear more Vivid. It fits everywhere due to its compact design. With comprehensive product range, it allows easy replacement of incandescent lamps all the way.

Benefits

- Outstanding brightness & Vivid Colors
- Flicker-Free start & Fast run up
- Save your money with long life-time and high energy efficiency compare to incandescent lamp

Features

- Long-Life and Energy saving alternative to Incandescent lamps
- Fast Run-up
- Recommended ambient temperature range to ensure almost constant light output (>90%): 0 and + 50°C

Tornado T2

Application

- Replacement of incandescent lamps both in professional and home applications (hotels, restaurants, shops) where the lamp is not directly visible; especially suitable for use in indoor functional areas
- Enclosed fixtures required for outdoor applications
- Not suitable for use with dimmers or electronic gear

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

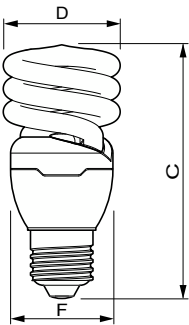


LPPR QSPIR-F 0004



LPPR QSPIR-F 0010

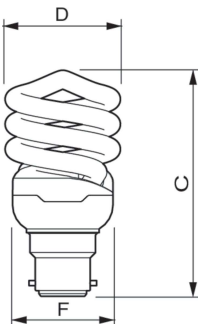
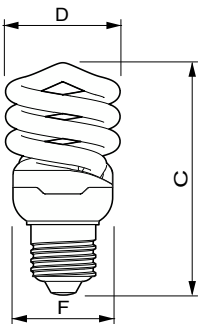
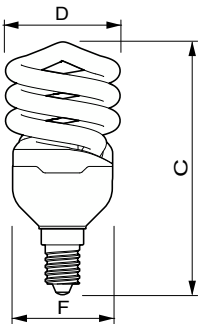
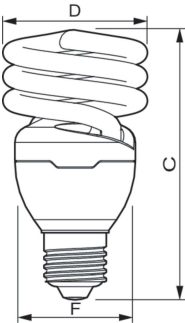
Dimensional drawing



Product	D (max)	C (max)	F (max)
TORNADO T2 15,0W/827 E27 *	51.5 mm	107.5 mm	42.5 mm

Tornado T2

Dimensional drawing



Product	D (max)	C (max)	F (max)
Tornado T2 23W WW E27 220-240V 1PF/6	61.5 mm	118.5 mm	50.5 mm
TornadoT2 8y 23W CDL E27 220-240V 1CT/12	61.5 mm	118.5 mm	50.5 mm

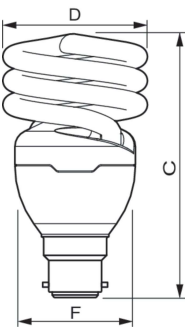
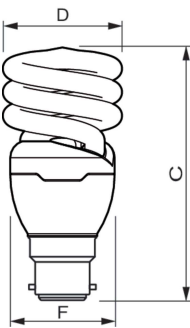
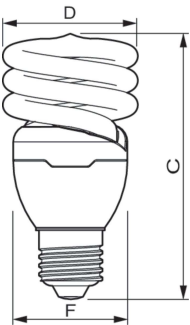
Product	D (max)	C (max)	F (max)
Tornado T2 12W CDL E14 220-240V 1PF/6	47.5 mm	104.0 mm	40.5 mm

Product	D (max)	C (max)	F (max)
TORNADO 12W CDL E27 220-240V 1PF/6	47.5 mm	94.0 mm	40.5 mm
TORNADO 12W WW E27 220-240V 1PF/6	47.5 mm	94.0 mm	40.5 mm
Tornado T2 12W WW E27 220-240V 1PF/6	47.5 mm	94.0 mm	40.5 mm

Product	D (max)	C (max)	F (max)
TORNADO 12W CDL B22 220-240V 1PF/6	47.5 mm	92.5 mm	40.5 mm
TORNADO 12W WW B22 220-240V 1PF/6	47.5 mm	92.5 mm	40.5 mm

Tornado T2

Dimensional drawing



Product	D (max)	C (max)	F (max)
Tornado T2 20W WW E27 220-240V 1PF/6	56.5 mm	116.0 mm	47 mm
TornadoT2 8y 20W CDL E27 220-240V 1CT/12	56.5 mm	111.5 mm	47 mm

Product	D (max)	C (max)	F (max)
Tornado T2 15W WW B22 220-240V 1BC/6	51.5 mm	106.0 mm	42.5 mm

Product	D (max)	C (max)	F (max)
Tornado T2 23W WW B22 220-240V 1BC/6	61.5 mm	117 mm	50.5 mm

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

Tornado T2

Order Code	Full Product Name	Cap-Base	Rated	Switching Cycle	Nominal lifetime
			Lifetime (Hours)		
929689114506	Tornado T2 12W WW E27 220-240V 1PF/6	E27	10,000 hour(s)	10,000	10,000 hour(s)
929689114708	TORNADO T2 15,0W/827 E27 *	E27	10,000 hour(s)	10,000	10,000 hour(s)
929689114901	Tornado T2 20W WW E27 220-240V 1PF/6	E27	10,000 hour(s)	10,000	10,000 hour(s)
929689154101	Tornado T2 23W WW E27 220-240V 1PF/6	E27	10,000 hour(s)	10,000	10,000 hour(s)
929689848410	TornadoT2 8y 20W CDL E27 220-240V 1CT/12	E27	8,000 hour(s)	5,000	8,000 hour(s)
929689124901	Tornado T2 23W WW B22 220-240V 1BC/6	B22	10,000 hour(s)	10,000	10,000 hour(s)
929689848610	TornadoT2 8y 23W CDL E27 220-240V 1CT/12	E27	8,000 hour(s)	5,000	8,000 hour(s)

Order Code	Full Product Name	Cap-Base	Rated	Switching Cycle	Nominal lifetime
			Lifetime (Hours)		
929689124506	Tornado T2 15W WW B22 220-240V 1BC/6	B22	10,000 hour(s)	10,000	10,000 hour(s)
929689868501	TORNADO 12W WW E27 220-240V 1PF/6	E27	8,000 hour(s)	5,000	8,000 hour(s)
929689868601	TORNADO 12W CDL E27 220-240V 1PF/6	E27	8,000 hour(s)	5,000	8,000 hour(s)
929689888501	TORNADO 12W WW B22 220-240V 1PF/6	B22	8,000 hour(s)	5,000	8,000 hour(s)
929689888601	TORNADO 12W CDL B22 220-240V 1PF/6	B22	8,000 hour(s)	5,000	8,000 hour(s)
929689134602	Tornado T2 12W CDL E14 220-240V 1PF/6	E14	10,000 hour(s)	10,000	10,000 hour(s)

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color		Color	Color Code	LLMF At End Of
		Coordinate X (Nom)	Coordinate Y (Nom)	Color Designation	Temperature (Nom)	rendering index (CRI)		Nominal Lifetime (Nom)
929689114506	Tornado T2 12W WW E27 220-240V 1PF/6	463	420	Warm White (WW)	2700 K	82	827	65 %
929689114708	TORNADO T2 15,0W/827 E27 *	463	420	Warm White (WW)	2700 K	82	827	65 %
929689114901	Tornado T2 20W WW E27 220-240V 1PF/6	463	420	Warm White (WW)	2700 K	82	827	65 %
929689154101	Tornado T2 23W WW E27 220-240V 1PF/6	463	420	Warm White (WW)	2700 K	82	827	65 %
929689848410	TornadoT2 8y 20W CDL E27 220-240V 1CT/12	313	337	Cool Daylight	6500 K	80	865	70 %
929689124901	Tornado T2 23W WW B22 220-240V 1BC/6	463	420	Warm White (WW)	2700 K	82	827	65 %
929689848610	TornadoT2 8y 23W CDL E27 220-240V 1CT/12	313	337	Cool Daylight	6500 K	80	865	70 %
929689124506	Tornado T2 15W WW B22 220-240V 1BC/6	463	420	Warm White (WW)	2700 K	82	827	65 %
929689868501	TORNADO 12W WW E27 220-240V 1PF/6	463	420	Warm White (WW)	2700 K	82	827	70 %
929689868601	TORNADO 12W CDL E27 220-240V 1PF/6	313	337	Cool Daylight	6500 K	80	865	70 %
929689888501	TORNADO 12W WW B22 220-240V 1PF/6	463	420	Warm White (WW)	2700 K	82	827	70 %
929689888601	TORNADO 12W CDL B22 220-240V 1PF/6	313	337	Cool Daylight	6500 K	80	865	70 %
929689134602	Tornado T2 12W CDL E14 220-240V 1PF/6	313	337	Cool Daylight	6500 K	80	865	65 %

Light Technical (2/2)

Tornado T2

Order Code	Full Product Name	Luminous Efficacy	
		(rated) (Nom)	Luminous Flux
929689114506	Tornado T2 12W WW E27 220-240V 1PF/6	61 lm/W	741 lm
929689114708	TORNADO T2 15,0W/827 E27 *	65 lm/W	970 lm
929689114901	Tornado T2 20W WW E27 220-240V 1PF/6	67 lm/W	1,320 lm
929689154101	Tornado T2 23W WW E27 220-240V 1PF/6	67 lm/W	1,570 lm
929689848410	TornadoT2 8y 20W CDL E27 220-240V 1CT/12	61 lm/W	1,200 lm
929689124901	Tornado T2 23W WW B22 220-240V 1BC/6	67 lm/W	1,570 lm
929689848610	TornadoT2 8y 23W CDL E27 220-240V 1CT/12	63 lm/W	1,450 lm

Operating and Electrical

Order Code	Full Product Name	Warm-up	Lamp	Power
		time to 60% light	Current (Nom)	
929689114506	Tornado T2 12W WW E27 220-240V 1PF/6	-	90 mA	12.0 W
929689114708	TORNADO T2 15,0W/827 E27 *	-	110 mA	15.0 W
929689114901	Tornado T2 20W WW E27 220-240V 1PF/6	-	150 mA	20 W
929689154101	Tornado T2 23W WW E27 220-240V 1PF/6	-	170 mA	23.0 W
929689848410	TornadoT2 8y 20W CDL E27 220-240V 1CT/12	-	150 mA	20 W
929689124901	Tornado T2 23W WW B22 220-240V 1BC/6	5-40 s s	170 mA	23.0 W
929689848610	TornadoT2 8y 23W CDL E27 220-240V 1CT/12	-	170 mA	23 W

Approval and Application

Order Code	Full Product Name	Energy	Mercury	Mercury
		Consumption kWh/1000 h	(Hg) Content (Max)	(Hg) Content (Nom)
929689114506	Tornado T2 12W WW E27 220-240V 1PF/6	12 kWh	2.0 mg	1.5 mg
929689114708	TORNADO T2 15,0W/827 E27 *	15 kWh	2.0 mg	1.5 mg
929689114901	Tornado T2 20W WW E27 220-240V 1PF/6	20 kWh	2.0 mg	1.5 mg
929689154101	Tornado T2 23W WW E27 220-240V 1PF/6	23 kWh	2.5 mg	2 mg
929689848410	TornadoT2 8y 20W CDL E27 220-240V 1CT/12	20 kWh	-	1.5 mg

Order Code	Full Product Name	Luminous Efficacy	
		(rated) (Nom)	Luminous Flux
929689124506	Tornado T2 15W WW B22 220-240V 1BC/6	65 lm/W	970 lm
929689868501	TORNADO 12W WW E27 220-240V 1PF/6	61 lm/W	741 lm
929689868601	TORNADO 12W CDL E27 220-240V 1PF/6	58 lm/W	700 lm
929689888501	TORNADO 12W WW B22 220-240V 1PF/6	61 lm/W	741 lm
929689888601	TORNADO 12W CDL B22 220-240V 1PF/6	58 lm/W	700 lm
929689134602	Tornado T2 12W CDL E14 220-240V 1PF/6	58 lm/W	705 lm

Order Code	Full Product Name	Warm-up	Lamp	Power
		time to 60% light	Current (Nom)	
929689124506	Tornado T2 15W WW B22 220-240V 1BC/6	5-40 s s	110 mA	15.0 W
929689868501	TORNADO 12W WW E27 220-240V 1PF/6	-	90 mA	12 W
929689868601	TORNADO 12W CDL E27 220-240V 1PF/6	-	90 mA	12 W
929689888501	TORNADO 12W WW B22 220-240V 1PF/6	-	90 mA	12 W
929689888601	TORNADO 12W CDL B22 220-240V 1PF/6	-	90 mA	12 W
929689134602	Tornado T2 12W CDL E14 220-240V 1PF/6	5-40 s s	90 mA	12.0 W

Order Code	Full Product Name	Energy	Mercury	Mercury
		Consumption kWh/1000 h	(Hg) Content (Max)	(Hg) Content (Nom)
929689124901	Tornado T2 23W WW B22 220-240V 1BC/6	23 kWh	2.5 mg	2 mg
929689848610	TornadoT2 8y 23W CDL E27 220-240V 1CT/12	23 kWh	-	2 mg
929689124506	Tornado T2 15W WW B22 220-240V 1BC/6	15 kWh	2.0 mg	1.5 mg
929689868501	TORNADO 12W WW E27 220-240V 1PF/6	12 kWh	-	1.5 mg
929689868601	TORNADO 12W CDL E27 220-240V 1PF/6	12 kWh	-	1.5 mg

Tornado T2

Order Code	Full Product Name	Energy	Mercury	Mercury
		Consumption	(Hg)	(Hg)
		kWh/1000 h	Content	Content
			(Max)	(Nom)
929689888501	TORNADO 12W WW B22	12 kWh	-	1.5 mg
	220-240V 1PF/6			
929689888601	TORNADO 12W CDL B22	12 kWh	-	1.5 mg
	220-240V 1PF/6			

Order Code	Full Product Name	Energy	Mercury	Mercury
		Consumption	(Hg)	(Hg)
		kWh/1000 h	Content	Content
			(Max)	(Nom)
929689134602	Tornado T2 12W CDL E14	12 kWh	2.0 mg	1.5 mg
	220-240V 1PF/6			

