



Product Features

Maintain high performance

- Reliable operation between -20 °C to 45 °C ambient temperature
- · Trustable claimed lifetime
- 50,000 switching cycles

Easy to experience

- · Instant on, no flicker or buzz
- Advanced optical design ensures a uniform light output and superior optical efficiency

Energy Efficient

- Energy savings up to 50%*
- * Based on comparison between 16W Corepro LEDtube standard and Philips TL5 standard or super 80 28W (30-32W system power when working with Electronics Ballasts)

Safe and forget

- Protection circuit inside ensuring people's safety in case of mis-use, complying with IEC safety requirements
- Pass 4KV high-pot test, insulation & safety guaranteed
- Pass 1KV surge test (vs. IEC standard 500V), avoiding the damage caused by input voltage fluctuation and lightning strike
- Slim size fitting into most of T5 fluorescent luminaire perfectly

Application



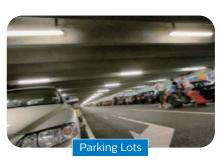










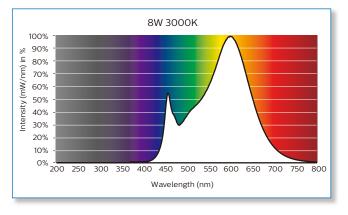


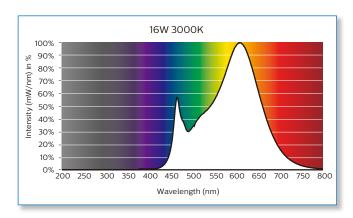


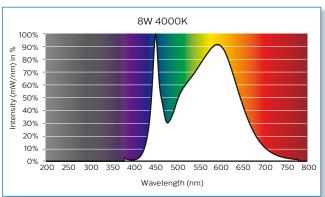


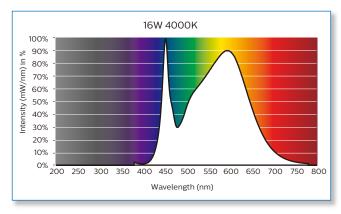
Spectral Power Distribution

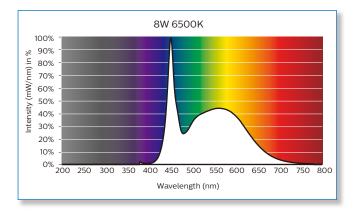
Light may be precisely characterized by giving the power of the light at each wavelength in the visible spectrum. The resulting spectralpower distribution (SPD) shows that the LEDtube contains the visible light only. No harm from UV and IR.

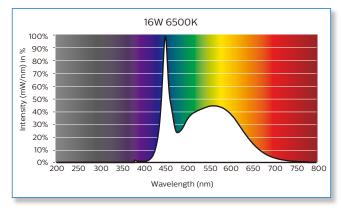






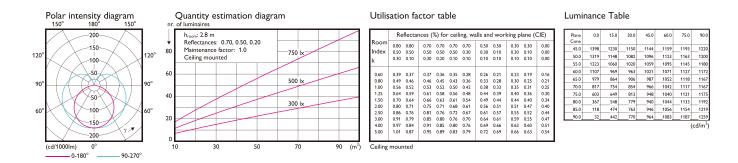






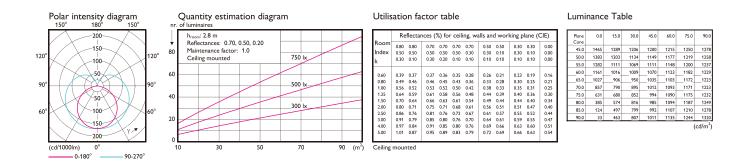
Photometric Diagrams

The Photometric diagram depicting the top down mounted lighting fixtures in a specific area and a numerical grid of the maintained lighting levels that the fixture will produce in that specific area. Pictures below show the photometric diagrams of a typical Philips LEDtube's application.



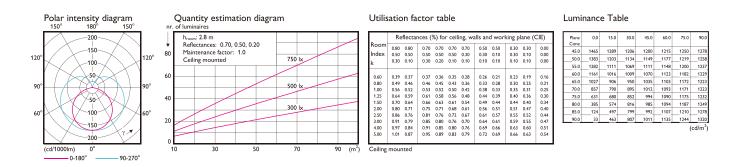
CorePro LEDtube 600mm 8W840 G5 I

1 x 1050 lm



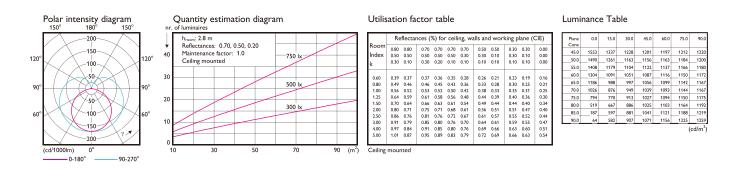
CorePro LEDtube 600mm 8W865 G5 I

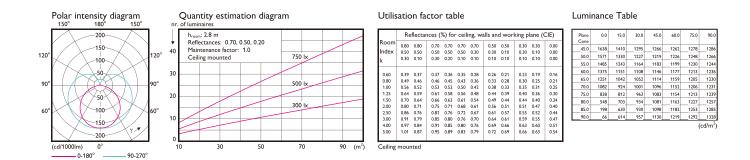
1 x 1050 lm



CorePro LEDtube 1200mm 16W830 G5 I

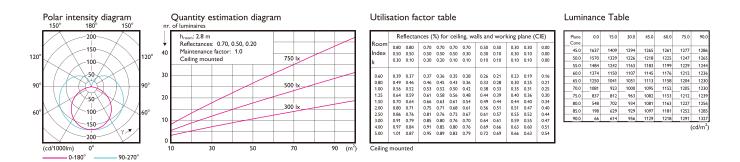
1 x 2000 lm



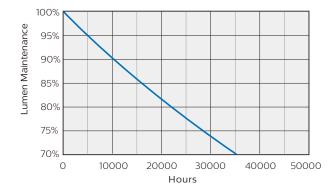


CorePro LEDtube 1200mm 16W865 G5 I

1 x 2100 lm



Lifetime and Lumen Maintenance

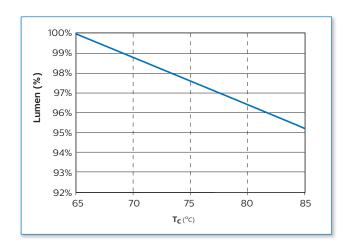


Philips CorePro LEDtube T5 has a lifetime of 30,000 hours, defined as the number of hours when 50% of a large group of identical lamps below 70% of its initial lumens.

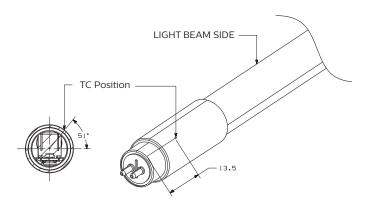
Temperature

Philips CorePro T5 LEDtube's excellent thermal design ensures low temperature during operating, which brings reliable and stable product performance throughout life time.

Operating temperature	T operating	min -20°C	max +45°C
Storage temperature	T storage	min -40°C	max +65°C
Maximum surface temperature of tube at Tamb.=25°C	T surface		+60°C



Dimension: mm



Approbation & Certificates

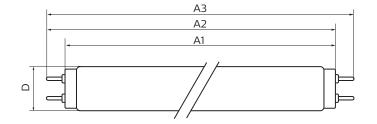
Philips LEDtube is designed by strictly following applicable legislation and international standard. The product complies with **KEMA**, **RoHS** and **TISI**.











Dimensions (mm)

Product	A1	A2	A3	D
G5 2ft	549	546.7/549	560.7/563.2	19
G5 4ft	1149	1153.7/1156.1	1160.7/1163.2	19

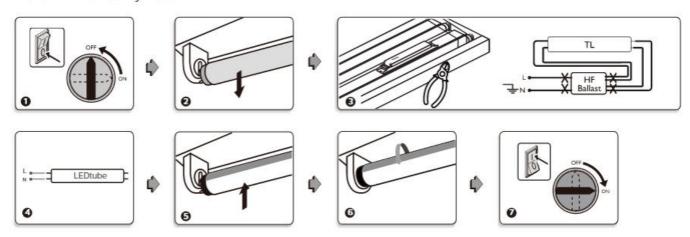
Technical specification

Product Description	Wattage	Voltage	Cap	Length	Beam Angle	Lifetime	Lumen output	ССТ	CRI *	Model Number
	(W)	(V)		(mm)	(0)	(hrs)	(lm)	(K)	(Typical)	
CorePro LEDtube 600mm 8W830 G5 I APR	8	100-240	G5	600	240	30,000	1000	3000	80	9290013806
CorePro LEDtube 600mm 8W840 G5 I APR	8	100-240	G5	600	240	30,000	1050	4000	80	9290013807
CorePro LEDtube 600mm 8W865 G5 I APR	8	100-240	G5	600	240	30,000	1050	6500	80	9290013808
CorePro LEDtube 1200mm 16W830 G5 I APR	16	100-240	G5	1200	240	30,000	2000	3000	80	9290013809
CorePro LEDtube 1200mm 16W840 G5 I APR	16	100-240	G5	1200	240	30,000	2100	4000	80	9290013810
CorePro LEDtube 1200mm 16W865 G5 I APR	16	100-240	G5	1200	240	30,000	2100	6500	80	9290013811

Quick Installation Guide

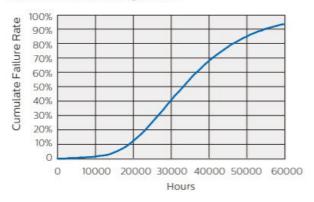
Please take the time to read quick installation guide which is showed on the product package. Philips Lighting does not accept liability for any damages for installations not performed according to this guide or not performed by a professional electrician.

· HF ballast based system

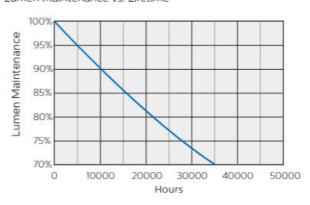


OEM Guideline

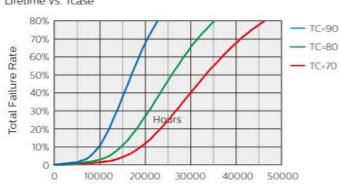
Failure rate vs. Lifetime @ Ta 25 °C



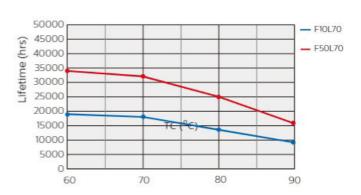
Lumen Maintenance vs. Lifetime



Failure Rate vs. Lifetime vs. Tcase



Lifetime vs. Tcase



Distributed By

Choo Chiang Marketing Pte Ltd

(a subsidiary of Choo Chiang Holdings Ltd)
Tel: +65 6368 5922 | fax: +65 6363 5922
Head Office: 10 Woodlands Loop S(738388)

website: www.choochiang.com | facebook: facebook.com/choochiang.sg











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