

Master LED Tube T5

หลอด LED ชนิดตรงรุ่น master T5



Master LED Tube T5

คุณสมบัติ

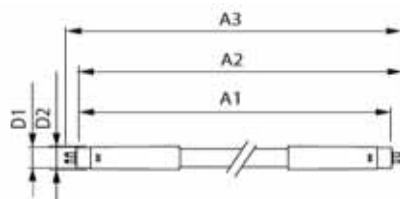
- หลอดแอลอีดี T5 ใช้แทนหลอดฟลูออโรเรสเซนต์ T5 ได้ทันที โดยไม่รบกวนกับบัลลาสต์อิเล็กทรอนิกส์
- อายุการใช้งานยาวนาน 50,000 ชม

การใช้งาน

- ใช้งานทั่วไป เพื่อเปลี่ยนทดแทนหลอดฟลูออโรเรสเซนต์ชนิดตรง
- ควรใช้โคม หรือบริเวณที่มีการระบายความร้อนที่ดี

Dimension (mm.)

Type	D1	D2	A1	A2	A3
MAS LEDtube HF 1500mm	15.2	21	1447.8	1454.9	1462
MAS LEDtube HF 1200mm	15.5	18.8	1149	1156.1	1463.2
MAS LEDtube HF 600mm	15.5	18.8	549	556.1	563.2



ข้อมูลจำเพาะ: Master LED Tube

สินค้า	ขั้ว	กำลังไฟฟ้า (วัตต์)	แรงดันไฟฟ้า (โวลต์)	ฟลักซ์ (ลูเมน)	อุณหภูมิสี (เคลวิน)	มุมแสง (องศา)	ความถูกต้องของสี (Ra)	ปรับหรี่แสง	อายุ (ชั่วโมง)	ราคาปลีก (บาท)
Master LEDtube HF 600mm HE 8W 840 T5 AP	G5	8	100-240	1050	4000	200	83	ไม่ได้	50000	1,000.00
Master LEDtube HF 600mm HE 8W 865 T5 AP	G5	8	100-240	1050	6500	200	83	ไม่ได้	50000	1,000.00
Master LEDtube HF 1200mm HE 16.5W 830 T5	G5	16.5	100-240	2500	3000	200	83	ไม่ได้	50000	1,200.00
Master LEDtube HF 1200mm HE 16.5W 840 T5	G5	16.5	100-240	2500	4000	200	83	ไม่ได้	50000	1,200.00
Master LEDtube HF 1200mm HE 16.5W 865 T5	G5	16.5	100-240	2500	6500	200	83	ไม่ได้	50000	1,200.00
Master LEDtube HF 1200mm HO 26W 830 T5	G5	26	100-240	3700	3000	160	83	ไม่ได้	50000	1,300.00
Master LEDtube HF 1200mm HO 26W 840 T5	G5	26	100-240	3900	4000	160	83	ไม่ได้	50000	1,300.00
Master LEDtube HF 1200mm HO 26W 865 T5	G5	26	100-240	3900	6500	160	83	ไม่ได้	50000	1,300.00
Master LEDtube HF 1500mm HO 26W 830 T5	G5	26	100-240	3700	3000	160	83	ไม่ได้	50000	1,400.00
Master LEDtube HF 1500mm HO 26W 840 T5	G5	26	100-240	3900	4000	160	83	ไม่ได้	50000	1,400.00
Master LEDtube HF 1500mm HO 26W 865 T5	G5	26	100-240	3900	6500	160	83	ไม่ได้	50000	1,400.00

ราคาสินค้ารวมภาษีมูลค่าเพิ่ม
ของวงเล็บในกรณีปรับแก้ไขราคาข้างต้นโดยไม่ต้องแจ้งให้ทราบล่วงหน้า



Philips Master LEDtube InstantFit
High Efficiency 1500mm & 1200mm
& 600mm T5



PHILIPS



The Philips MASTER LEDtube InstantFit is a technology breakthrough out of our LEDtube portfolio. This product is compatible with electronic ballasts and is the easiest way to replace fluorescent tubes with LED tubes. The InstantFit lamp is a true plug-and-play LED solution that realizes energy savings. Significant maintenance cost reduction by comparing to fluorescent lamps. It also helps generate natural and comfortable lighting effect, and to build up green and environment friendly image for our customers.

Product Features

Highly Reliable

- Compatible with large amount of HF-Ballast
- Rated average life of 50,000 hours (tested to F50 L70 requirement)
- 50,000 switching cycles

Highly Comfortable

- CRI typical 83
- Advanced optical design ensures a uniform light output and superior optical efficiency

Perfect Fit

- Comply with IEC requirement on T5 dimension, fitting into fluorescent luminaire perfectly

Highly Energy Efficient *

- 1500mm Energy savings of more than 43%
- 1200mm Energy savings of more than 46%
- 600mm Energy savings of more than 41%

* Energy saving percentage test result based on Philips dedicated ballast

Highly Safe

- 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

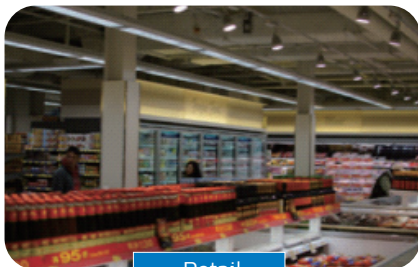
Highly Environmental Friendly

- No mercury

Rotatable end-cap

- To ensure maximum compatibility with existing luminaires, directional LEDtubes often need to be adjusted towards where light is needed most. That's why Philips MASTER products have this feature. It allows the LEDtube to be easily rotated up to 90 degrees, giving you the freedom to direct the light to best effect.

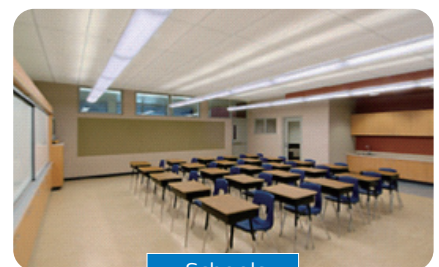
Application



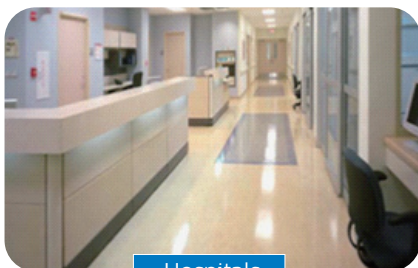
Retail



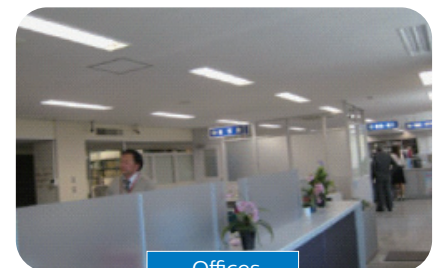
Industry



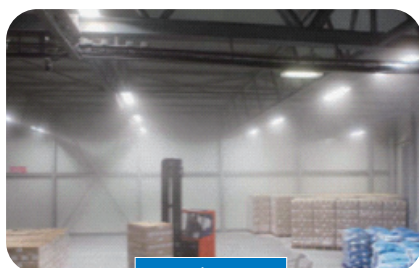
Schools



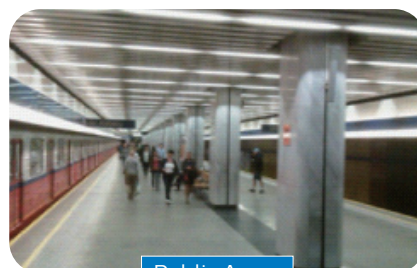
Hospitals



Offices



Warehouses

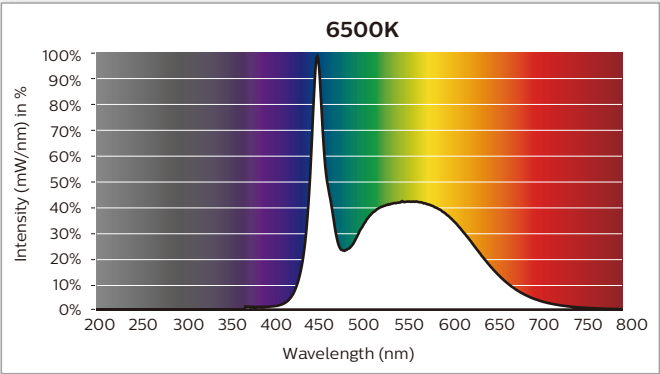
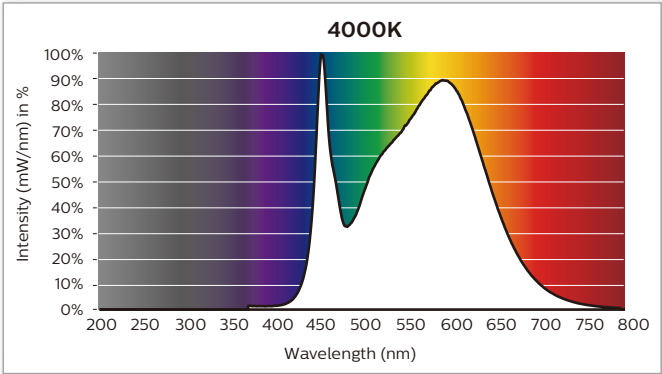
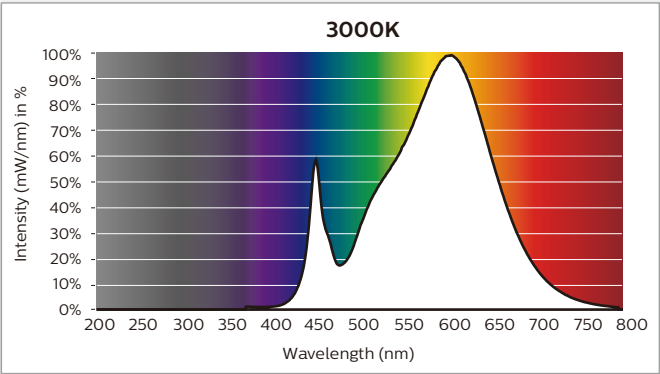


Public Areas

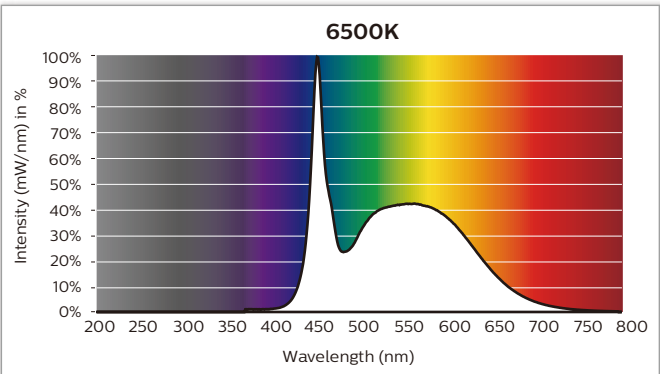
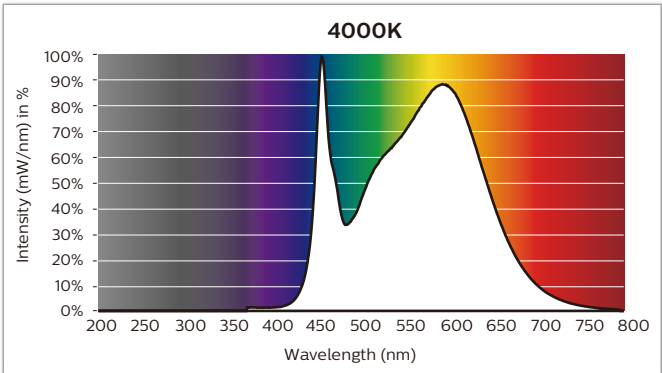
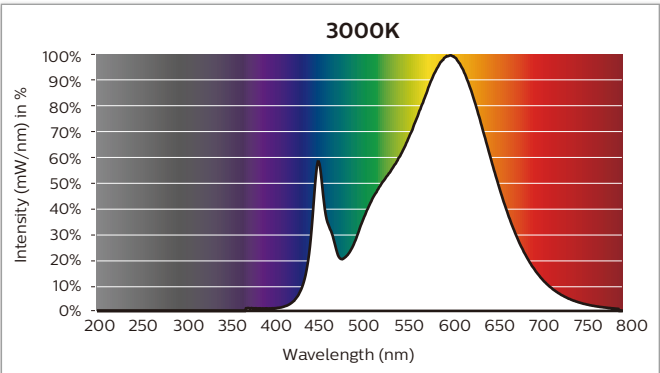
Spectral Power Distribution

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 LEDtube contains the visible light only. No harm from UV and IR.

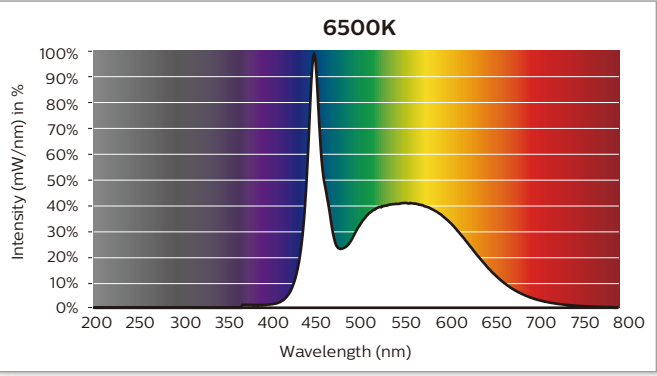
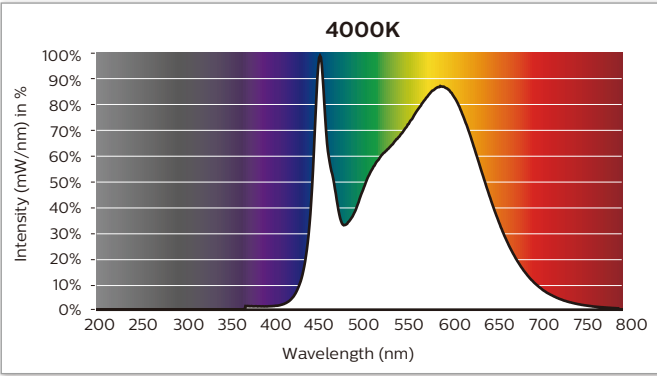
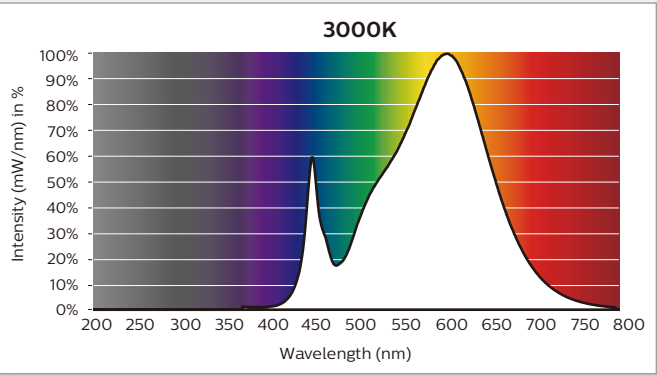
600mm 8W



1200mm 16.5W



1500mm 20W

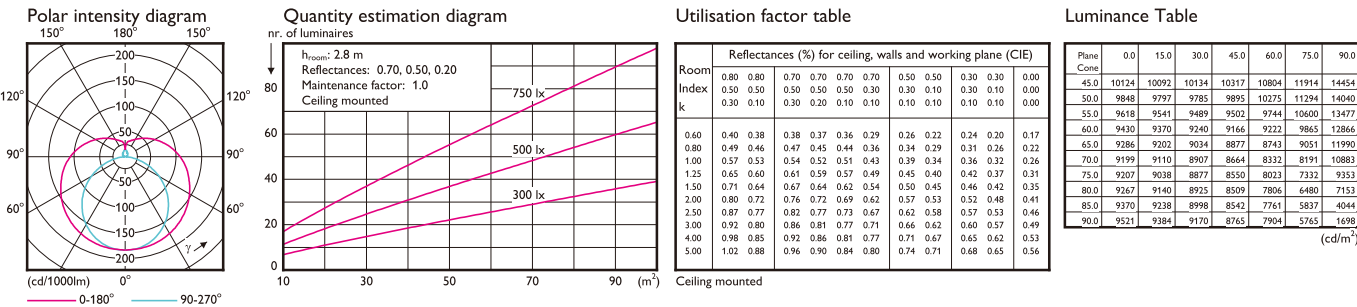


Photometric Diagrams

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 Master LEDtube's application.

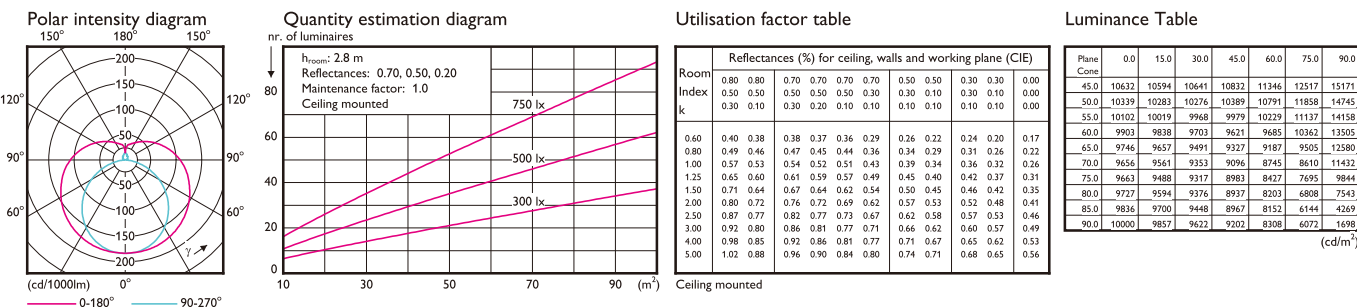
MAS LEDtube HF 600mm HE 8W 830 T5

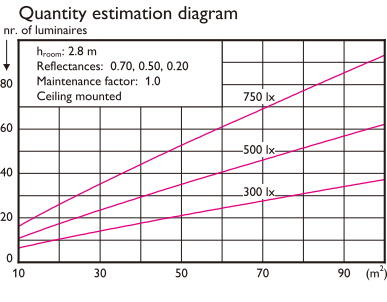
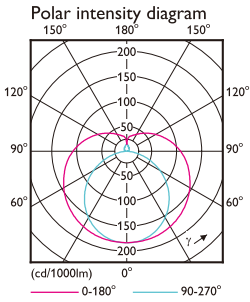
1 x 1000 lm



MAS LEDtube HF 600mm HE 8W 840 T5

1 x 1050 lm





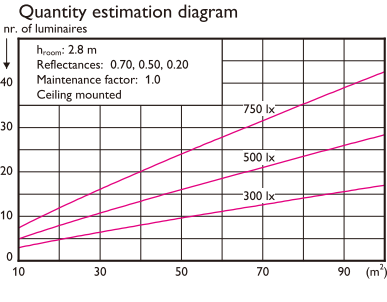
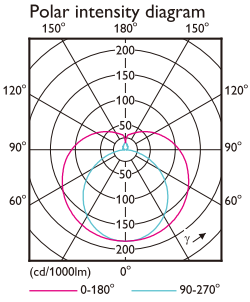
Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00				
	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.10	0.00				
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17					
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22					
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26					
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31					
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35					
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41					
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46					
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49					
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53					
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56					

Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone							
45.0	10632	10594	10641	10832	11346	12517	15171
50.0	10339	10283	10276	10389	10791	11858	14745
55.0	10102	10019	9968	9979	10229	11137	14158
60.0	9903	9838	9703	9621	9685	10362	13505
65.0	9746	9657	9491	9327	9187	9505	12580
70.0	9656	9561	9353	9096	8745	8610	11432
75.0	9663	9488	9317	8983	8427	7695	9884
80.0	9727	9594	9376	8937	8203	6808	7543
85.0	9836	9700	9448	8967	8152	6144	4269
90.0	10000	9857	9622	9202	8308	6072	1698

(cd/m²)



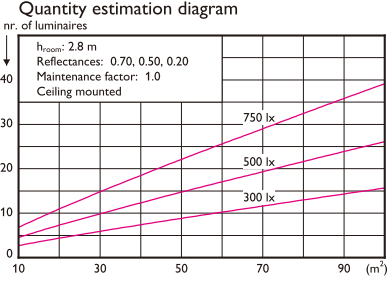
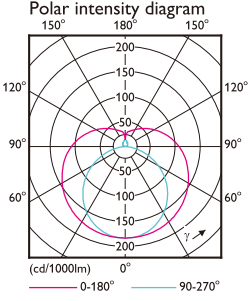
Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00				
	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.10	0.00				
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17					
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22					
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26					
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31					
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35					
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41					
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46					
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49					
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53					
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56					

Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone							
45.0	11647	11627	11705	11938	12541	13871	16874
50.0	11224	11288	11310	11459	11935	13168	16443
55.0	11063	10999	10970	11014	11324	12362	15843
60.0	10844	10800	10687	10632	10735	11556	15173
65.0	10677	10607	10456	10310	10197	10624	14227
70.0	10576	10506	10308	10061	9729	9650	13034
75.0	10586	10428	10277	9945	9383	8655	11375
80.0	10656	10547	10342	9908	9160	7697	8932
85.0	10769	10662	10428	9952	9128	7005	5349
90.0	10949	10840	10637	10233	9330	7006	3961

(cd/m²)



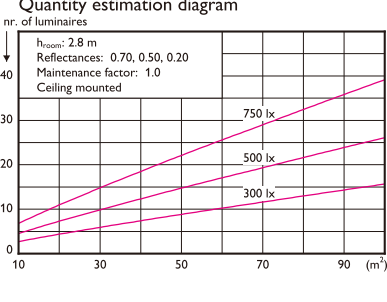
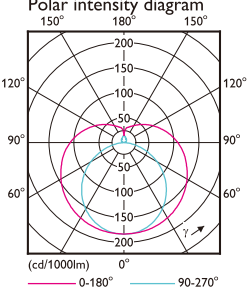
Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00				
	0.50	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.10	0.00				
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17					
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22					
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26					
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31					
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35					
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41					
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46					
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49					
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53					
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56					

Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone							
45.0	12639	12618	12701	12956	13608	15052	18313
50.0	12291	12349	12372	12434	12953	14288	17842
55.0	12004	11935	11902	11952	12389	13437	17191
60.0	11769	11720	11595	11537	11654	12539	16467
65.0	11588	11511	11346	11188	11063	11530	15440
70.0	11476	11403	11185	10919	10556	10468	14142
75.0	11490	11317	11155	10792	10189	9393	12342
80.0	11563	11443	11223	10750	9940	8363	9691
85.0	11687	11573	11316	10801	9904	7596	5815
90.0	11882	11761	11546	11104	10125	7593	4244

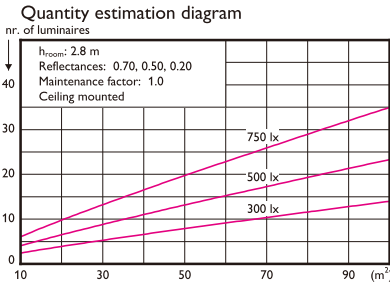
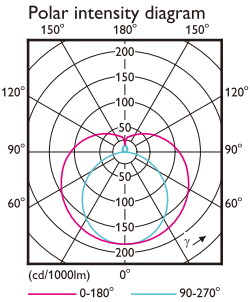
(cd/m²)



Utilisation factor table												
Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)											
	0.80	0.80	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.00	0.00
	0.50	0.50	0.50	0.50	0.30	0.30	0.10	0.10	0.10	0.10	0.10	0.00
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17	
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22	
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26	
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31	
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35	
2.00	0.80	0.72	0.77	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41	
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46	
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49	
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53	
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56	
Ceiling mounted												

MAS LEDtube HF 1500mm HE 20W 830 T5

1 x 2800 lm



Utilisation factor table

Room Index	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.80	0.80	0.70	0.70	0.70
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17	0.40	0.38	0.38	0.37	0.36
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22	0.49	0.46	0.47	0.45	0.44
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26	0.57	0.53	0.54	0.52	0.51
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31	0.65	0.60	0.61	0.59	0.57
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35	0.71	0.64	0.67	0.64	0.62
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41	0.80	0.72	0.76	0.72	0.69
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46	0.87	0.77	0.82	0.77	0.73
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49	0.92	0.80	0.86	0.81	0.77
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53	0.98	0.85	0.92	0.86	0.81
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56	1.02	0.88	0.96	0.90	0.84

Ceiling mounted

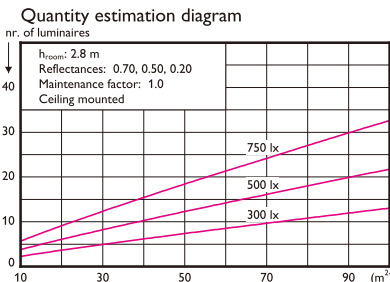
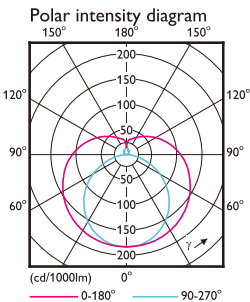
Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone							
45.0	14177	14154	14251	14535	15266	16883	20540
50.0	13787	13744	13765	13952	14522	16033	20018
55.0	13469	13390	13352	13406	13789	15070	19290
60.0	13204	13149	13007	12943	13071	14063	18479
65.0	12998	12916	12726	12548	12413	13330	17322
70.0	12875	12790	12549	12249	11842	11742	15867
75.0	12888	12696	12511	12104	11427	10543	13824
80.0	12975	12840	12588	12061	11150	9376	10854
85.0	13114	12981	12696	12117	11112	8519	6513
90.0	13329	13198	12950	12461	11358	8527	4810

(cd/m²)

MAS LEDtube HF 1500mm HE 20W 840 T5

1 x 3000 lm



Utilisation factor table

Room Index	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.80	0.80	0.70	0.70	0.70
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17	0.40	0.38	0.38	0.37	0.36
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22	0.49	0.46	0.47	0.45	0.44
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26	0.57	0.53	0.54	0.52	0.51
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31	0.65	0.60	0.61	0.59	0.57
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35	0.71	0.64	0.67	0.64	0.62
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41	0.80	0.72	0.76	0.72	0.69
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46	0.87	0.77	0.82	0.77	0.73
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49	0.92	0.80	0.86	0.81	0.77
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53	0.98	0.85	0.92	0.86	0.81
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56	1.02	0.88	0.96	0.90	0.84

Ceiling mounted

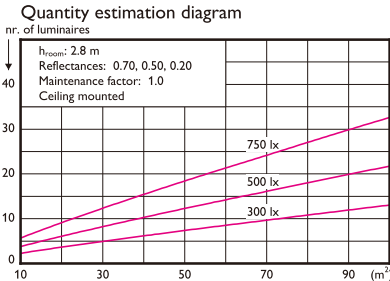
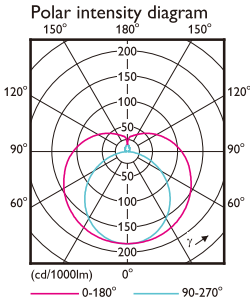
Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone							
45.0	15189	15166	15268	15572	16355	18088	22009
50.0	14772	14726	14748	14948	15571	17176	21446
55.0	14430	14346	14308	14364	14774	16148	20666
60.0	14148	14088	13939	13867	14005	15067	19800
65.0	13926	13839	13634	13444	13302	13855	18540
70.0	13795	13703	13444	13125	12686	12585	16998
75.0	13807	13605	13404	12969	12243	11297	14821
80.0	13901	13755	13488	12922	11946	10046	11628
85.0	14051	13907	13603	12984	11904	9134	6988
90.0	14282	14139	13873	13350	12170	9142	5093

(cd/m²)

MAS LEDtube HF 1500mm HE 20W 865 T5

1 x 3000 lm



Utilisation factor table

Room Index	Reflectances (%) for ceiling, walls and working plane (CIE)															
	0.80	0.80	0.70	0.70	0.70	0.70	0.50	0.50	0.30	0.30	0.00	0.80	0.80	0.70	0.70	0.70
0.60	0.40	0.38	0.38	0.37	0.36	0.29	0.26	0.22	0.24	0.20	0.17	0.40	0.38	0.38	0.37	0.36
0.80	0.49	0.46	0.47	0.45	0.44	0.36	0.34	0.29	0.31	0.26	0.22	0.49	0.46	0.47	0.45	0.44
1.00	0.57	0.53	0.54	0.52	0.51	0.43	0.39	0.34	0.36	0.32	0.26	0.57	0.53	0.54	0.52	0.51
1.25	0.65	0.60	0.61	0.59	0.57	0.49	0.45	0.40	0.42	0.37	0.31	0.65	0.60	0.61	0.59	0.57
1.50	0.71	0.64	0.67	0.64	0.62	0.54	0.50	0.45	0.46	0.42	0.35	0.71	0.64	0.67	0.64	0.62
2.00	0.80	0.72	0.76	0.72	0.69	0.62	0.57	0.53	0.52	0.48	0.41	0.80	0.72	0.76	0.72	0.69
2.50	0.87	0.77	0.82	0.77	0.73	0.67	0.62	0.58	0.57	0.53	0.46	0.87	0.77	0.82	0.77	0.73
3.00	0.92	0.80	0.86	0.81	0.77	0.71	0.66	0.62	0.60	0.57	0.49	0.92	0.80	0.86	0.81	0.77
4.00	0.98	0.85	0.92	0.86	0.81	0.77	0.71	0.67	0.65	0.62	0.53	0.98	0.85	0.92	0.86	0.81
5.00	1.02	0.88	0.96	0.90	0.84	0.80	0.74	0.71	0.68	0.65	0.56	1.02	0.88	0.96	0.90	0.84

Ceiling mounted

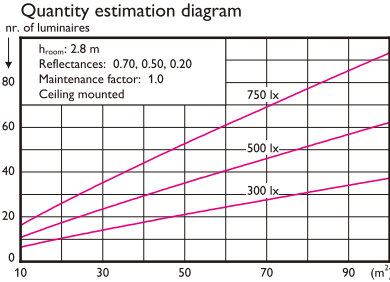
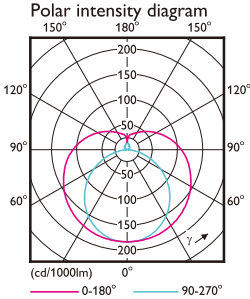
Luminance Table

Plane	0.0	15.0	30.0	45.0	60.0	75.0	90.0
Cone							
45.0	15189	15166	15268	15572	16355	18088	22009
50.0	14772	14726	14748	14948	15571	17176	21446
55.0	14430	14346	14308	14364	14774	16148	20666
60.0	14148	14088	13939	13867	14005	15067	19800
65.0	13926	13839	13634	13444	13302	13855	18540
70.0	13795	13703	13444	13125	12686	12585	16998
75.0	13807	13605	13404	12969	12243	11297	14821
80.0	13901	13755	13488	12922	11946	10046	11628
85.0	14051	13907	13603	12984	11904	9134	6988
90.0	14282	14139	13873	13350	12170	9142	5093

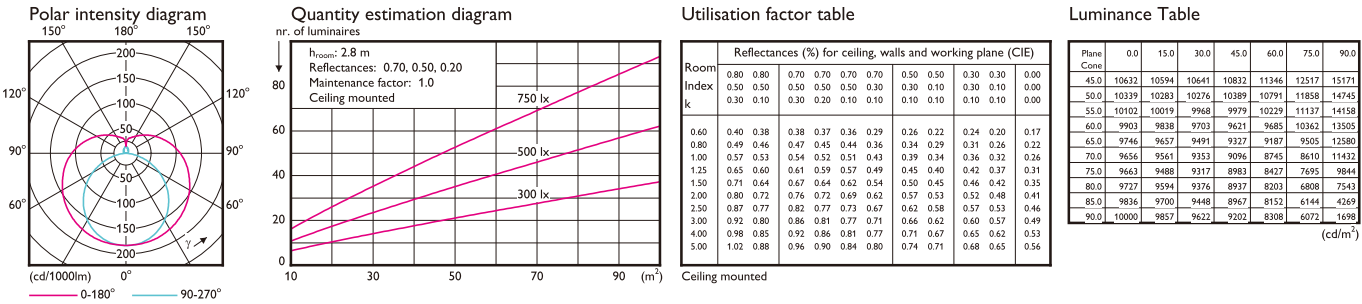
(cd/m²)

MAS LEDtube HF 600mm HE 8W 840 T5 AP

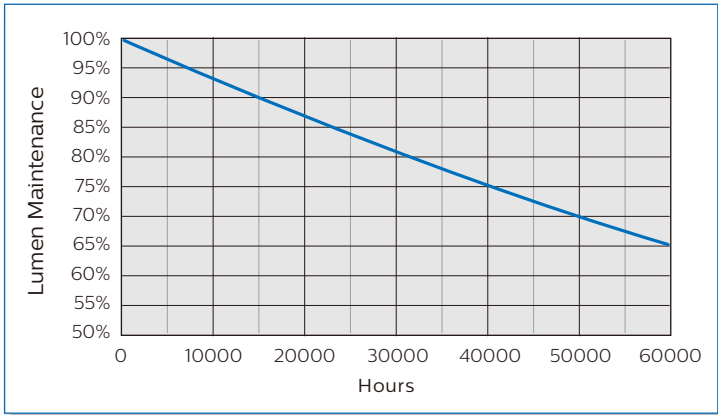
1 x 1050 lm



Utilisation factor table																	
Room Index	Reflectances (%) for ceiling, walls and working plane (CIE)																
	0.80 0.80	0.70 0.70	0.70 0.70	0.70 0.70	0.50 0.50	0.30 0.30	0.10 0.10	0.00 0.00	0.80 0.80	0.70 0.70	0.70 0.70	0.70 0.70	0.50 0.50	0.30 0.30	0.10 0.10	0.00 0.00	
0.60	0.40 0.38	0.38 0.37	0.36 0.29	0.26 0.22	0.24 0.20	0.17 0.17	0.40 0.38	0.38 0.37	0.36 0.29	0.26 0.22	0.24 0.20	0.17 0.17	0.40 0.38	0.38 0.37	0.36 0.29	0.26 0.22	
0.80	0.49 0.46	0.47 0.45	0.44 0.36	0.34 0.29	0.31 0.26	0.22 0.22	0.49 0.46	0.47 0.45	0.44 0.36	0.34 0.29	0.31 0.26	0.22 0.22	0.49 0.46	0.47 0.45	0.44 0.36	0.34 0.29	
1.00	0.57 0.53	0.54 0.52	0.51 0.43	0.39 0.34	0.36 0.32	0.26 0.26	0.57 0.53	0.54 0.52	0.51 0.43	0.39 0.34	0.36 0.32	0.26 0.26	0.57 0.53	0.54 0.52	0.51 0.43	0.39 0.34	
1.25	0.65 0.60	0.61 0.59	0.57 0.49	0.45 0.40	0.42 0.37	0.31 0.31	0.65 0.60	0.61 0.59	0.57 0.49	0.45 0.40	0.42 0.37	0.31 0.31	0.65 0.60	0.61 0.59	0.57 0.49	0.45 0.40	
1.50	0.71 0.64	0.67 0.64	0.62 0.54	0.50 0.45	0.46 0.42	0.35 0.35	0.71 0.64	0.67 0.64	0.62 0.54	0.50 0.45	0.46 0.42	0.35 0.35	0.71 0.64	0.67 0.64	0.62 0.54	0.50 0.45	
2.00	0.80 0.72	0.76 0.72	0.69 0.62	0.57 0.53	0.52 0.48	0.41 0.41	0.80 0.72	0.76 0.72	0.69 0.62	0.57 0.53	0.52 0.48	0.41 0.41	0.80 0.72	0.76 0.72	0.69 0.62	0.57 0.53	
2.50	0.87 0.77	0.82 0.77	0.73 0.67	0.62 0.58	0.57 0.53	0.46 0.46	0.87 0.77	0.82 0.77	0.73 0.67	0.62 0.58	0.57 0.53	0.46 0.46	0.87 0.77	0.82 0.77	0.73 0.67	0.62 0.58	
3.00	0.92 0.80	0.86 0.81	0.77 0.71	0.66 0.62	0.60 0.57	0.49 0.49	0.92 0.80	0.86 0.81	0.77 0.71	0.66 0.62	0.60 0.57	0.49 0.49	0.92 0.80	0.86 0.81	0.77 0.71	0.66 0.62	
4.00	0.98 0.85	0.92 0.86	0.81 0.77	0.71 0.67	0.65 0.62	0.53 0.53	0.98 0.85	0.92 0.86	0.81 0.77	0.71 0.67	0.65 0.62	0.53 0.53	0.98 0.85	0.92 0.86	0.81 0.77	0.71 0.67	
5.00	1.02 0.88	0.96 0.90	0.84 0.80	0.74 0.71	0.68 0.65	0.56 0.56	1.02 0.88	0.96 0.90	0.84 0.80	0.74 0.71	0.68 0.65	0.56 0.56	1.02 0.88	0.96 0.90	0.84 0.80	0.74 0.71	
Ceiling mounted																	



Lifetime and Lumen Maintenance

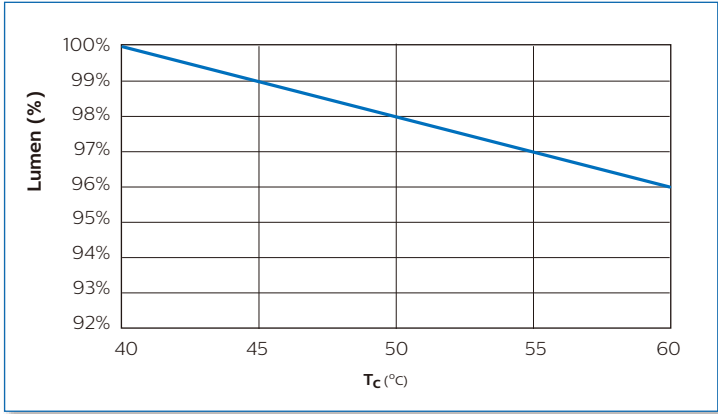


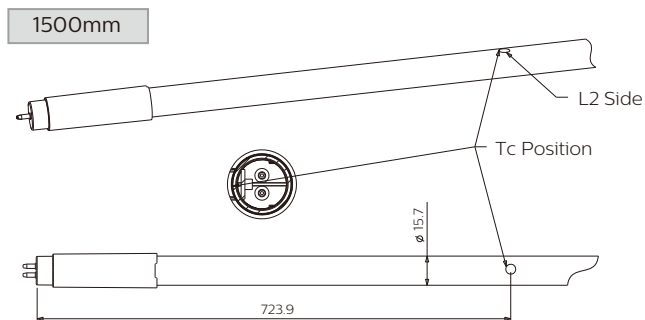
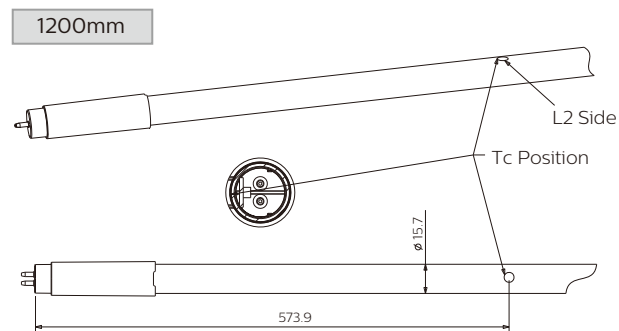
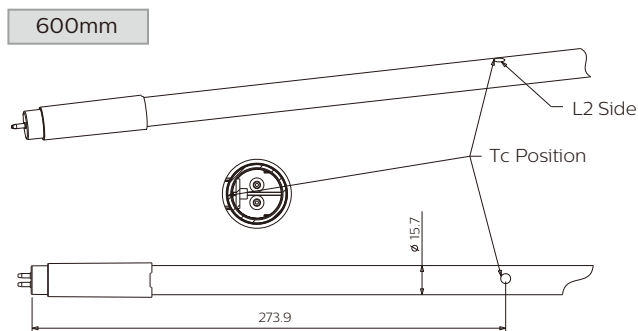
Philips MASTER LEDtube has a lifetime of 50,000 hours, defined as the number of hours when 50% of a large group of identical lamps below 70% of its initial lumen (F50L70).

Temperature

MASTER 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 case temperature of tube at Tamb.=25°C	T case		+45°C





Approbation & Certificates

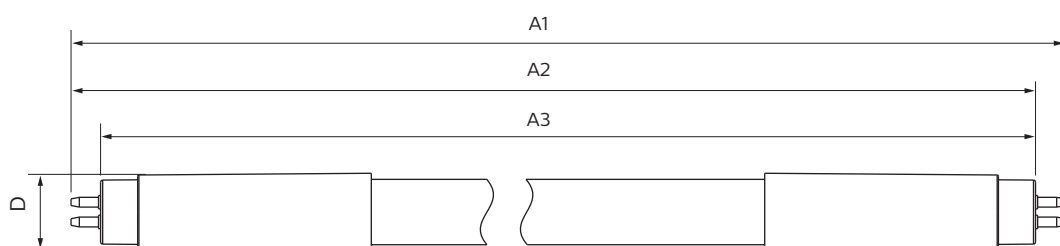
Philips MASTER LEDtube is designed by strictly following applicable legislation and international standard. The product complies with **CE, KEMA, TUV, RoHS** and **REACH**.



Technical specification

12NC	Product Description	Lamp Wattage Claim (W)	Energy Consumption (EU only) (W)	Replaced Wattage (W)	Voltage (V)	Cap	CCT (K)	Lumen (lm)	Lifetime (hrs)	CRI
929001390700	MAS LEDtube HF 600mm HE 8W 830 T5	8	10	14	150-350	G5	3000	1000	50000	83
929001390800	MAS LEDtube HF 600mm HE 8W 840 T5	8	10	14	150-350	G5	4000	1050	50000	83
929001390900	MAS LEDtube HF 600mm HE 8W 865 T5	8	10	14	150-350	G5	6500	1050	50000	83
929001391000	MAS LEDtube HF 1200mm HE 16.5W 830 T5	16.5	20	28	150-350	G5	3000	2300	50000	83
929001391100	MAS LEDtube HF 1200mm HE 16.5W 840 T5	16.5	20	28	150-350	G5	4000	2500	50000	83
929001391200	MAS LEDtube HF 1200mm HE 16.5W 865 T5	16.5	20	28	150-350	G5	6500	2500	50000	83
929001391300	MAS LEDtube HF 1500mm HE 20W 830 T5	20	24	35	150-350	G5	3000	2800	50000	83
929001391400	MAS LEDtube HF 1500mm HE 20W 840 T5	20	24	35	150-350	G5	4000	3000	50000	83
929001391500	MAS LEDtube HF 1500mm HE 20W 865 T5	20	24	35	150-350	G5	6500	3000	50000	83
929001399500	MAS LEDtube HF 600mm HE 8W 840 T5 AP	8	10	14	150-350	G5	4000	1050	50000	83
929001399600	MAS LEDtube HF 600mm HE 8W 865 T5 AP	8	10	14	150-350	G5	6500	1050	50000	83

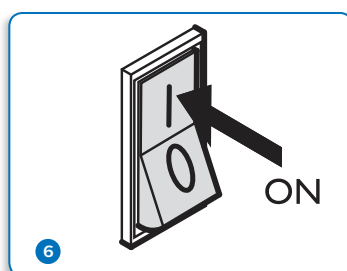
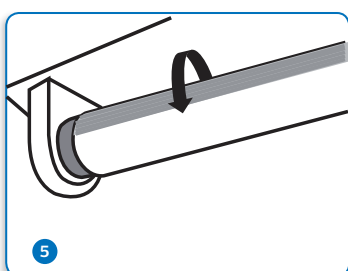
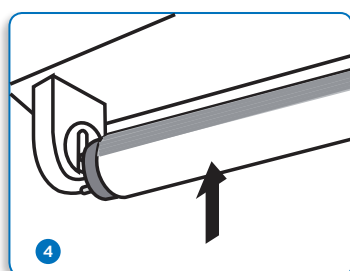
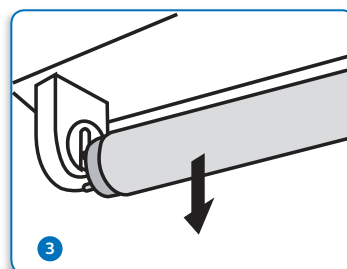
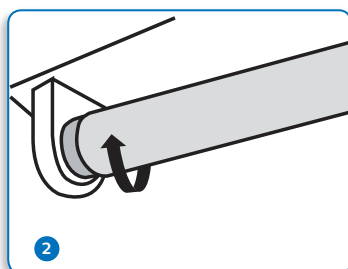
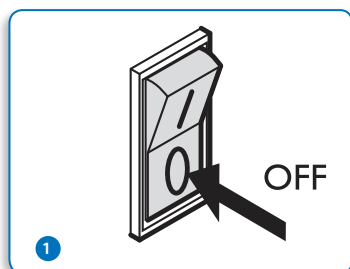
* Minimum CRI is 80



Dimensions (mm)

Product	A1	A2	A3	D
600mm	562	554.9	547.8	18.8
1200mm	1162	1154.9	1147.8	18.8
1500mm	1462	1454.9	1447.8	18.8

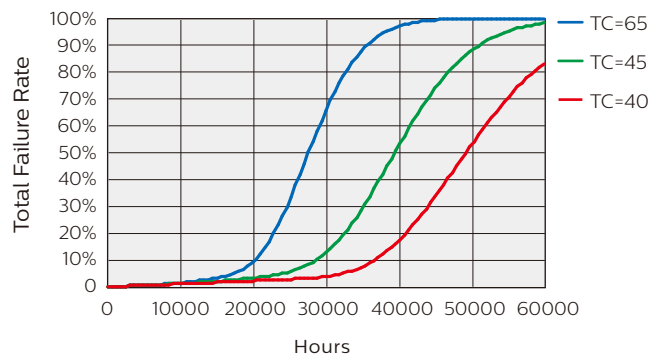
Installation Guide



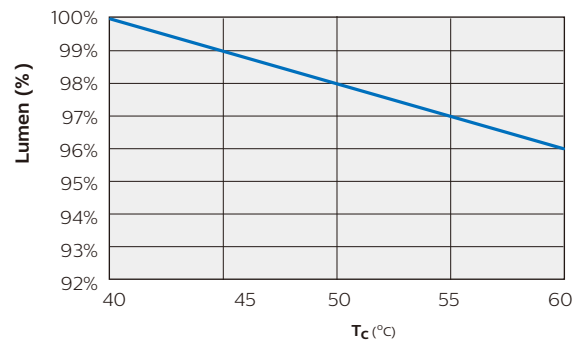
Philips Master HF InstantFit is compatible with most electronic ballasts in the market.
Please visit www.philips.com/instantfit for more information.

OEM Guideline

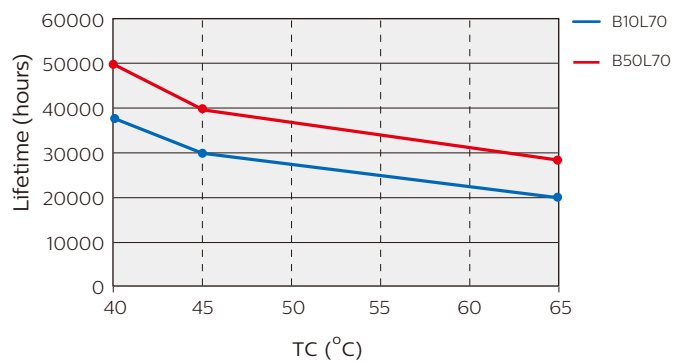
Failure Rate vs.
Lifetime vs. Tcase



Lifetime and Lumen Maintenance



Lifetime vs. Tcase



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06/2017

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