

MASTER LEDtube InstantFit HF

MASTER LEDtube HF 1200mm UO 21W830 T8

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. The MASTER LEDtube Performance is the ideal solution for customers which have higher light requirements and the want to maximize value over lifetime.(need the longest lifetime). Full energy savings and TCO benefits.

Product data

• General Information

Cap-Base	G13 [G13 Medium Bi-Pin Fluorescent]
Main Application	Industrial
Nominal Lifetime (Nom)	50000 h
Switching Cycle B50L70	50000X 50000

• Light Technical

Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	160 °
Luminous Flux (Nom)	2300 lm
Luminous Flux (Rated) (Nom)	2300 lm
Rated Beam Angle	160 °
Correlated Color Temperature (Nom)	3000 K
Color Consistency	6 steps
Color Rendering Index (Nom)	83
LLMF At End Of Nominal Lifetime (Nom)	70 %

• Operating and Electrical

Input Frequency	25000-80000 Hz
Power (Rated) (Nom)	21 W
Lamp Current (Nom)	400 mA
Starting Time (Max)	0.5 s
Warm Up Time To 60% Light (Max)	0.1 s
Power Factor (Min)	0.9
Voltage (Nom)	50-100 V

• Temperature

T-Ambient (Max)	45 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C
T-Case Maximum (Max)	45 °C
T-Case Maximum (Nom)	45 °C

• Controls and Dimming

Dimmable	No

• Mechanical and Housing

Product Length	1200 mm

• Approval and Application

Energy Saving Product	Yes
Suitable For Accent Lighting	No
Energy Efficiency Label (EEL)	A+
Approval Marks	CE marking KEMA Keur certificate RoHS compliance
Energy Consumption kWh/1000 h	26 kWh

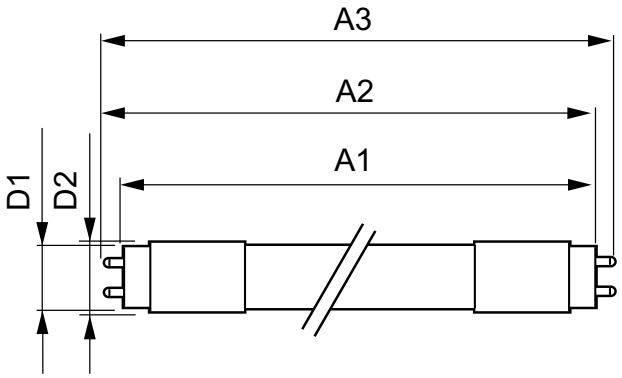
PHILIPS

MASTER LEDtube InstantFit HF

- Product Data

Full product code	871869655282700
Order product name	MASTER LEDtube HF 1200mm UO 21W830 T8
EAN/UPC - Product	8718696552827
Order code	929001211302
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	10
Material Nr. (12NC)	929001211302
Net Weight (Piece)	0.360 kg

Dimensional drawing



TLED 50-100V 20W-36W 2500lm 3000K G13 ND

Product	D1	D2	A1	A2	A3
MASTER LEDtube HF 1200mm UO 21W830 T8	25.68 mm	28 mm	1198.0 mm	1205.0 mm	1212.0 mm

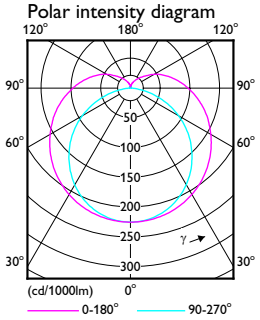
Photometric data

General Uniform Lighting

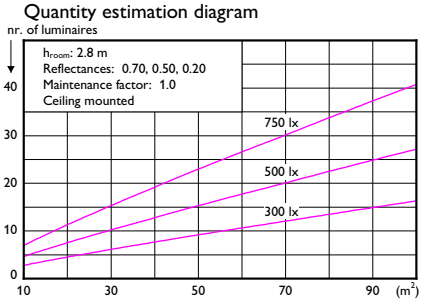
1 x TLED 21W 3000K 160D 9290012113

1 x 2300 lm

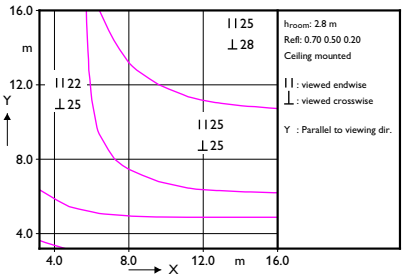
Polar intensity diagram



Quantity estimation diagram



UGR diagram



Light output ratio	1.00
Service upward	0.17
Service downward	0.83
CIE flux code	38 66 86 83 100
UGRcen (4Hx8H, 0.25H)	25

Utilisation factor table

Room Index k	Reflectances (%) for ceiling, walls and working plane (CIE)										
	0.80 0.50 0.30	0.80 0.50 0.10	0.70 0.50 0.30	0.70 0.50 0.20	0.70 0.50 0.10	0.70 0.30 0.10	0.50 0.30 0.10	0.50 0.10 0.10	0.30 0.30 0.10	0.30 0.10 0.10	0.00 0.00 0.00
0.60	0.42	0.40	0.40	0.39	0.38	0.31	0.29	0.25	0.28	0.24	0.20
0.80	0.51	0.48	0.49	0.48	0.47	0.39	0.37	0.32	0.35	0.30	0.26
1.00	0.60	0.55	0.57	0.55	0.53	0.46	0.43	0.38	0.41	0.36	0.32
1.25	0.67	0.62	0.65	0.62	0.60	0.52	0.49	0.44	0.46	0.42	0.37
1.50	0.74	0.67	0.70	0.67	0.65	0.57	0.54	0.49	0.51	0.47	0.41
2.00	0.83	0.74	0.79	0.75	0.72	0.65	0.62	0.57	0.58	0.54	0.48
2.50	0.90	0.79	0.85	0.81	0.77	0.71	0.67	0.62	0.63	0.59	0.53
3.00	0.94	0.83	0.90	0.85	0.80	0.75	0.70	0.67	0.66	0.63	0.57
4.00	1.01	0.87	0.96	0.90	0.84	0.80	0.75	0.72	0.71	0.68	0.62
5.00	1.05	0.90	1.00	0.93	0.87	0.83	0.79	0.76	0.74	0.71	0.65

Ceiling mounted

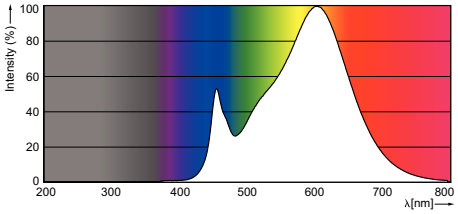
Luminance Table

Plane / Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	8888	8901	9040	9347	9973	11229	13711
50.0	8493	8491	8604	8851	9414	10678	13370
55.0	8129	8115	8193	8396	8884	10019	12894
60.0	7805	7774	7822	7974	8321	9303	12308
65.0	7510	7477	7519	7553	7763	8513	11544
70.0	7285	7234	7213	7172	7223	7647	10549
75.0	7056	6994	6944	6831	6719	6715	9172
80.0	6865	6793	6724	6543	6268	5758	7220
85.0	6714	6636	6550	6320	5911	4909	4483
90.0	6613	6529	6436	6177	5691	4396	1429

(cd/m²)

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data subject to change