

MASTER LEDtube InstantFit HF

MASTER LEDtube HF 1200mm UO 21W840 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	840 [CCT of 4000K (841)]
Beam Angle (Nom)	160 °
Luminous Flux (Nom)	2500 lm
Luminous Flux (Rated) (Nom)	2500 lm
Rated Beam Angle	160 °
Correlated Color Temperature (Nom)	4000 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 (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	25 kWh

• Product Data

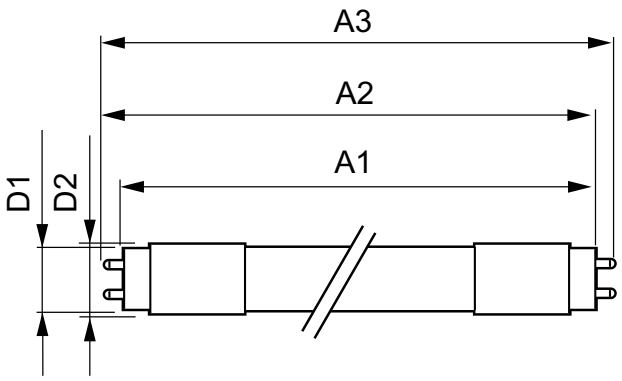
Full product code	871869655278000

PHILIPS

MASTER LEDtube InstantFit HF

Order product name	MASTER LEDtube HF 1200mm UO 21W840 T8
EAN/UPC - Product	8718696552780
Order code	929001211102
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	10
Material Nr. (12NC)	929001211102
Net Weight (Piece)	0.360 kg

Dimensional drawing



TLED 50-100V 20W-36W 2500lm 4000K G13 ND

Product	D1	D2	A1	A2	A3
MASTER LEDtube HF 1200mm UO 21W840 T8	25.68 mm	28 mm	1198.0 mm	1205.0 mm	1212.0 mm

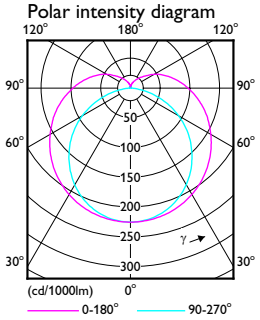
Photometric data

General Uniform Lighting

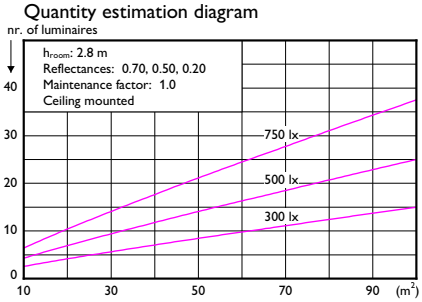
1 x TLED 21W 4000K 160D 9290012111

1 x 2500 lm

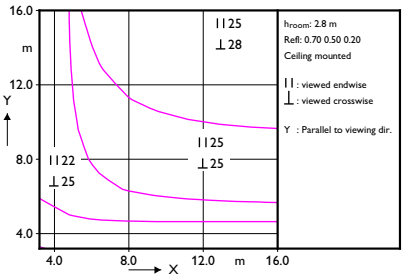
Polar intensity diagram



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

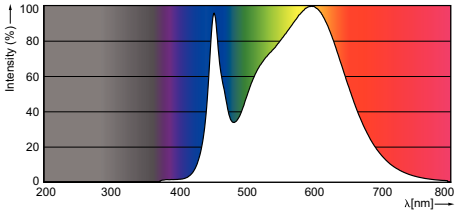
Luminance Table

Plane / Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	9661	9675	9827	10160	10841	12205	14903
50.0	9231	9230	9352	9621	10233	11607	14533
55.0	8835	8821	8905	9126	9657	10890	14015
60.0	8484	8450	8502	8667	9045	10111	13378
65.0	8163	8128	8173	8210	8438	9253	12548
70.0	7919	7863	7840	7796	7851	8312	11466
75.0	7670	7602	7548	7425	7303	7299	9970
80.0	7462	7384	7308	7112	6814	6259	7848
85.0	7298	7212	7119	6869	6425	5336	4871
90.0	7188	7097	6996	6714	6186	4778	1543

(cd/m²)

2015-11-19

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2016, April 21
data subject to change