

PHILIPS

MASTER
LEDbulb



Technical Application Guide

Philips MASTER LEDbulb ClearClassic MV DimTone

Best of the world... a DimTone Master LEDbulb ClearClassic with a warm white sparkle that saves over 85% energy costs.

The DimTone MASTER LEDbulb ClearClassic are ideal for installation in various kinds of fixtures where people can easily enjoy the art of light. The clear elegance aesthetic design with brilliant sunset-like light effect bringing LED close to users.



www.philips.com/masterledlamps



reddot award 2016
winner



Design highlights



- Classical clear outlook meets the need of OEM lumi-makers
- Unique optical design allows for sparkling light
- Low power consumption
- Long-lifetime of 25,000 hours (F50, L70)
- Dimmable with recommended dimmers
- Deluxe and dimming system provide smooth dimming from CCT 2200 K to 2700 K
- No UV and Cool beam (no IR)
- Environmental friendly, no Mercury or any other hazardous substances
- Low Carbon Footprint

“ Designed with **classical slender shape** and a unique eye-catching lens”



Application areas

MASTER LEDbulb ClearClassic lamps are ideal for general and decorative lighting in the hospitality industry, as well as in home environments, fit all existing fixtures with an E27 socket. Drawing upon inputs from luminaire makers and designed to enhance the aesthetic appeal of the luminaire, not only when lit but also when not, these lamps come in a classical slender shape with a unique, eye-catching lens design. They produce a beautiful sparkling warm light that delivers huge energy savings and minimizes maintenance cost. The DimTone LEDbulb provide smooth dimming from CCT 2200 K to 2700 K.

Application notes

- Operating temperature range is between -20 °C and 40 °C ambient
- Designed for indoor application
- Dimmable with most of leading edge and trailing edge dimmers and dimming system in the market (refer to the recommended dimmer list online)
- Not intended for use with emergency light fixtures or exit lights
- For indoor applications in open luminaires (open/free air gap of min. 10 mm)

Product features

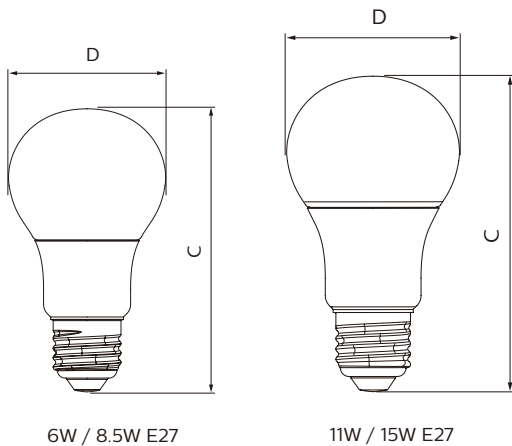
Technical Specifications

Product type	Voltage (V)	Lamp Wattage (W)	Replaced Wattage (W)	Base	Lamp/shape finish	Color temp. (K)	Light Output (Lm)	Lifetime (hours)	CRI	Dimmable
MAS LEDbulb DT 6-40W E27 A60 CL	220-240	6.0	40	E27	Clear	2200-2700	470	25,000	80	Yes
MAS LEDbulb DT 8.5-60W E27 A60 CL	220-240	8.5	60	E27	Clear	2200-2700	806	25,000	80	Yes
MAS LEDbulb DT 11-75W E27 A60 FR	220-240	11.0	75	E27	Clear	2200-2700	1055	25,000	80	Yes
MAS LEDbulb DT 15-100W E27 A60 FR	220-240	15	100	E27	Clear	2200-2700	1521	25,000	80	Yes

Dimensions

Type	C typical Overall Length (mm)	D typical Diameter (mm)
MAS LEDbulb DT 6-40W E27 A60 CL	110	60
MAS LEDbulb DT 8.5-60W E27 A60 CL	110	60
MAS LEDbulb DT 11-75W E27 A60 FR	137	71
MAS LEDbulb DT 15-100W E27 A60 FR	137	71

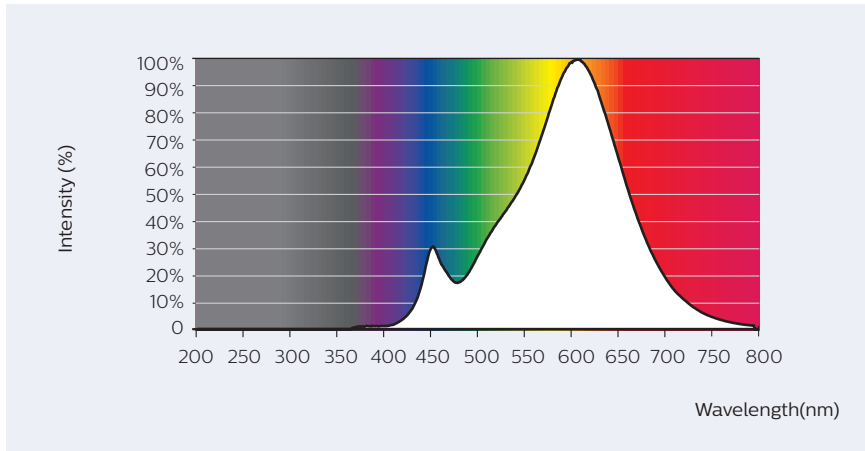
MASTER LEDbulb



Spectral Power Distribution

Spectrum Philips MASTER LEDbulb ClearClassic MV DimTone

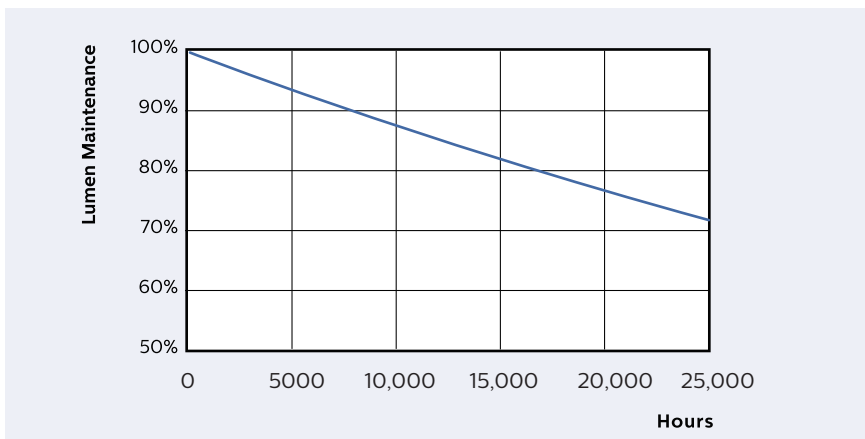
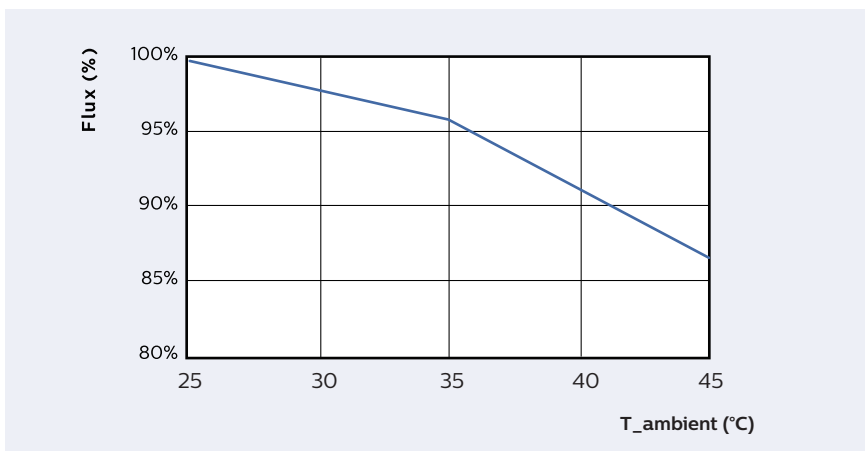
LEDbulb ClearClassic MV DimTone

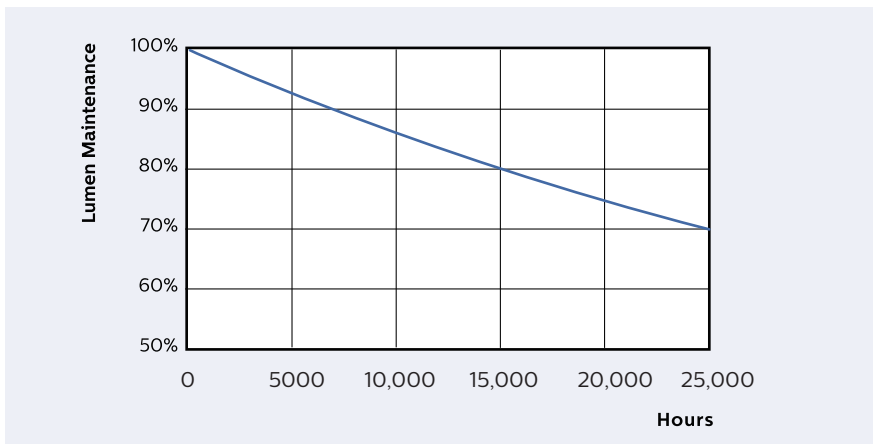
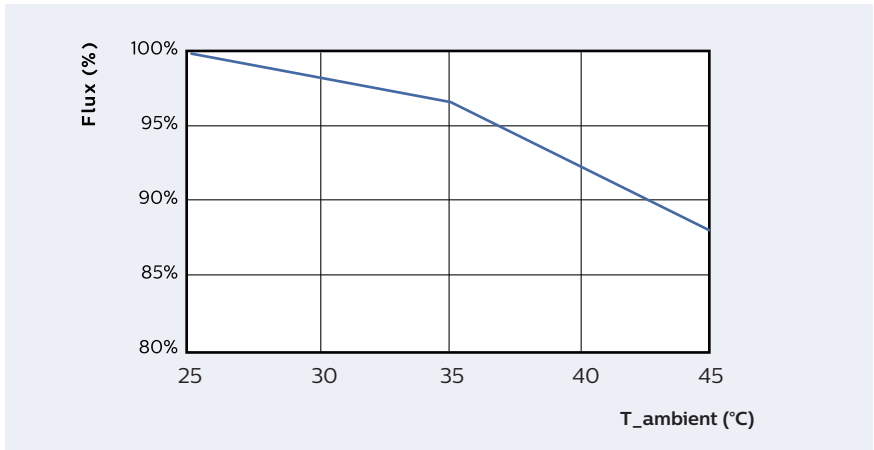


Temperature

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LEDbulb ClearClassic MV DimTone 40W

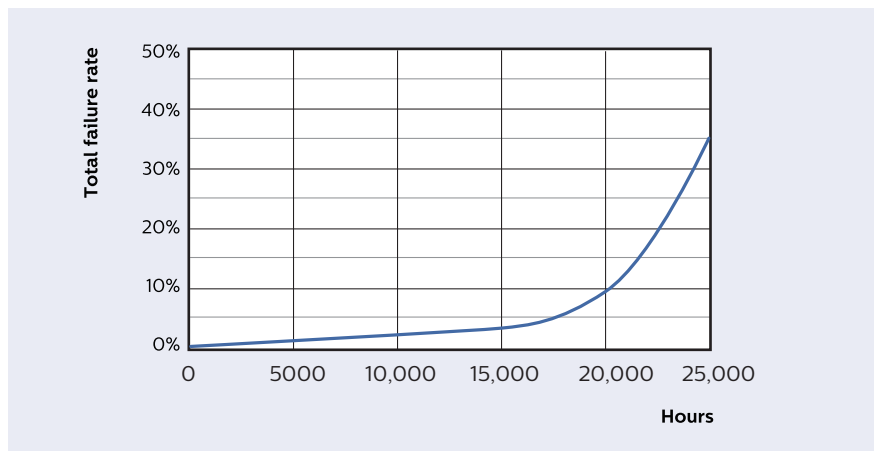




Lifetime + Sustainability

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LEDbulb ClearClassic MV DimTone



MASTER LEDbulb ClearClassic has a lifetime exceeding 25,000 hours defined as (F50, L70), where:

- F50, L70, meaning 50% in total of whole population of lamps either fail without light output or lumen maintenance lower than 70% of initial value
- Lifetime estimation based on the application environment condition: at room temperature (25 °C), free air operation, base down burning position and at rated voltage.

Photometric Diagrams

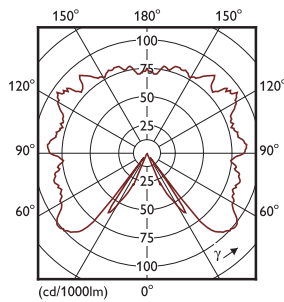


MAS LEDbulb DT 6-40W E27 A60 CL

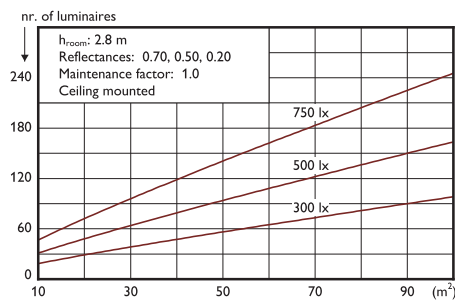
1 x 470 lm

Light output ratio	1.00	CIE flux code	13 45 73 47 99
Service upward	0.52	UGRcen (4Hx8H, 0.25H)	22
Service downward	0.48		

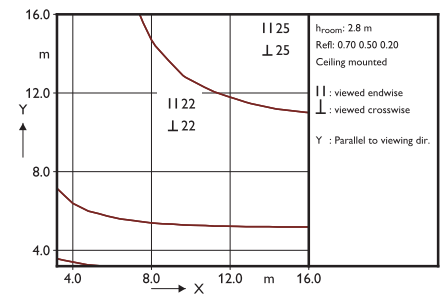
Polar intensity diagram



Quantity estimation diagram



UGR diagram

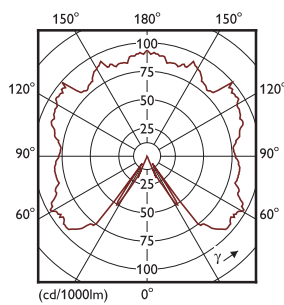


MAS LEDbulb DT 8.5-60W E27 A60 CL

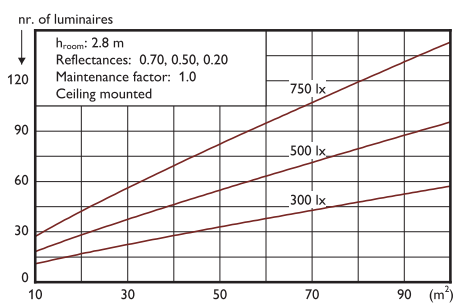
1 x 806 lm

Light output ratio	1.00	CIE flux code	11 42 72 46 100
Service upward	0.54	UGRcen (4Hx8H, 0.25H)	24
Service downward	0.46		

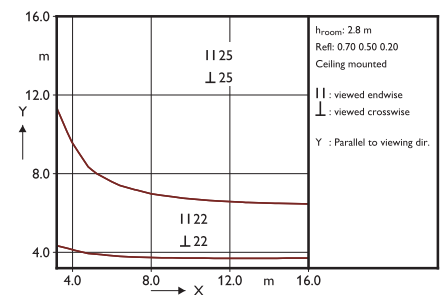
Polar intensity diagram



Quantity estimation diagram



UGR diagram



Recommended Dimmers

MASTER LEDbulb ClearClassic MV DimTone

Dimmer info			40W Overall Result	60W Overall Result
No	Brand	Type#		
1	Schneider (Merten)	SBD420RCRL (MEG5138-0000)	1-3	1-3
2	Schneider	SBD315RC (SBD 315)	1-3	1-3
3	Schneider (Elko)	SBD200LED (CCTEL10501)(S520512: 4-400VA)	1-3	1-3
4	Busch-Jaeger	2250U	1-3	1-3
5	Busch-Jaeger	6513 U-102	1-3	1-3
6	Busch-Jaeger	6523U	1-3	1-3
7	Busch-Jaeger	2200 U-503	1-3	1-3
8	Busch-Jaeger	2247U - 500	1-3	1-3
9	Legrand	67081		
10	Legrand	774161		
11	Legrand	67082		
12	Legrand	67084	1-3	1-3
13	Legrand	67085	1-3	1-3
14	Jung	225TDE	1-3	1-3
15	Varilight	HQ3W	2-3	1-3
16	Insta (Berker)	2867 10	1-3	1-3
17	Insta (Berker)	2830 10	1-3	1-3
18	Gira	2390 00 / 100	1-3	1-3
19	Jung	1271LEDDE	1-3	1-3
20	MK	K1535	HEL<80%	1-3
21	MK	K1501 WHILV	1-3	1-3
22	Vimar	20148		
23	Vimar	20162		
Professional Specific: 2 Dynalite dimmers				
24	Dynalite	DDLE801	1-3	1-3
25	Dynalite	DDMC-GRMSPLUS	1-3	1-3
Consumer Specific: 5 Cord dimmers				
26	Ikea	WDE300F-1	3	
27	Ikea	E0902-Dim	1-3	1-3
28	Ikea	WDE200L-1	1-3	1-3
29	Ikea	EED200LRS	1-3	1-3



Dimmer info			40W Overall Result	60W Overall Result
No	Brand	Type#		
30	Anam	D700 (ASW3701)	2-3	1-3
31	ARLEC	9121B/9021	2-3	1-3
32	Clipsal	31E800T	2-3	1-3
33	Clipsal	32E2CFLDM	1-3	1-3
34	Clipsal	32E450LM	1-3	1-3
35	Clipsal	3031H500MK	2-3	1-3
36	Clipsal	32E450TM	1-3	1-3
37	Clipsal	32E450UDM	1-3	1-3
38	Clipsal	32V500	2-3	1-3
39	Clipsal	E3031HD		
40	Clipsal	KB31RD400	2-3	1-3
41	KIWI	K004U	1-3	1-3
42	KIWI	K005L	2-3	1-3
43	KIWI	K005T	1-3	1-3
44	LONON	NB 50.0TG	1-3	1-3
45	NVC	E51D14A-02		2-3
46	Panasonic	WMS549	3	1-3
47	PDL	654MWH	1-3	1-3
48	PDL	624TMWH		
49	SHIN SUNG	SSD-500	3	2-3
50	TCL	LM2		2-3
51	TNC	Z62-M12	2-3	



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