



Technical application guide

Philips MASTER LED candles MV D 4-25W

a dimmable LED candle with a warm white sparkle that saves 80% energy costs.

The dimmable MASTER LED 4 W candle range is ideal for installation in various kinds of fixtures where people can easily enjoy the art of light played together with glass. The lamps can perfectly work with crystal chandeliers, wall sconces where lamps are exposed or modern fixtures with a glass shield.

Design highlights

- · Classical outlook meets the need of OEM lumi-makers
- Unique optical design allows for sparkling light
- · Low power consumption: 4 Watt only
- Long-lifetime of 20,000 hours (B50, L70)
- · Dimmable with recommended dimmers
- •Warm white CCT 2700 K available
- No UV and Cool beam (no IR)
- Environmental friendly, no Mercury or any other hazardous substances
- · Low Carbon Footprint







Application areas

MASTER LED candle is ideal for general and decorative lighting in the hospitality industry, as well as in home environments. Mounted in full view in chandeliers, wall scones or modern luminaires, the clear glass bulbs fit all existing fixtures with an E14 socket.

Drawing upon inputs from chandelier makers and designed to enhance the aesthetic appeal of the chandelier or 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.

Application notes

- Operating temperature range is between -20 °C and 40 °C ambient
- Designed for indoor application.
- Dimmable with most of leading edge dimmers in the market (we refer to the recommended dimmer list on the last page of this document)
- · 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)

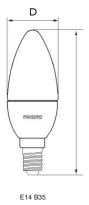
Technical Specifications

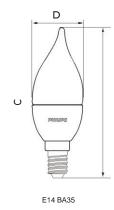
Product type	Voltage	Wattage	Base	Lamp/shape	Color	Light	Lifetime	CRI	Dimmable
				finish	temp.	Output			
	V	W			K	lm	hours		
MASTER LED candle	220-240	4	E14	B35 Clear	2700	250	20.000	>80	Yes *
MASTER LED candle	220-240	4	E14	BA35 Clear	2700	250	20.000	>80	Yes *
MASTER LED candle	220-240	4	E17	B35 Clear	2700	250	20.000	>80	Yes *

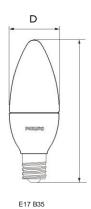
^{*} Might be possible that light color looks less warm at lowest dimming levels, depending on the dimmer. Color will improve after 15mins at certain dimming level.

Dimensions

Туре	C max.	D max.	
	Overall Length	Diameter	
MASTER candle E14 B35	101.5	35	
MASTER candle E14 BA35	105.5	35	
MASTER candle E17 B35	98	35	

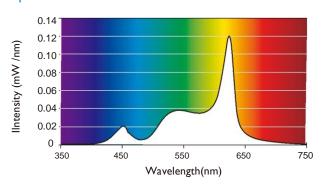




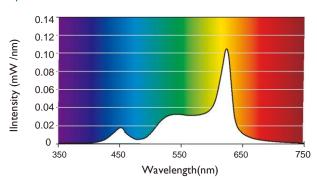


Spectral Power Distribution

Spectrum MASTER LED E14/E17 B35

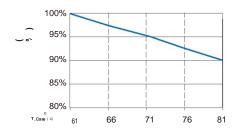


Spectrum MASTER LED E14 BA35

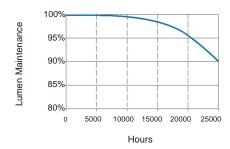


Temperature

MASTER LED MV D 4-25W







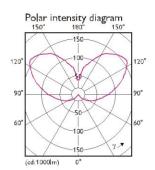
Photometric Diagrams

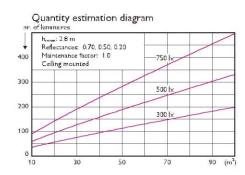


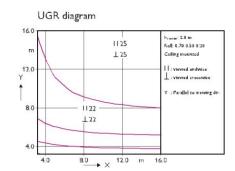
MASTER LED candle E14/E17 4W B35 2700K Clear

Light output ratio 1.00 Service upward 0.78 Service downward 0.22 CIE flux code 2 20 52 22 100

UGRcen (4Hx8H, 0.25H) 23







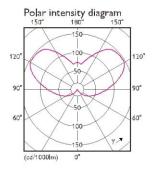


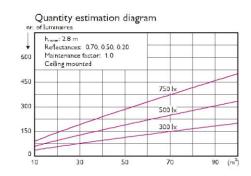
MASTER LED candle E14 4W BA35 2700K Clear

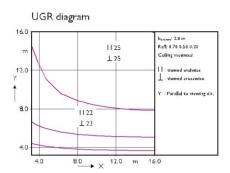
Light output ratio 0.99
Service upward 0.76
Service downward 0.23

CIE flux code 2 2 1 53 23 99

UGRcen (4Hx8H, 0.25H) 24

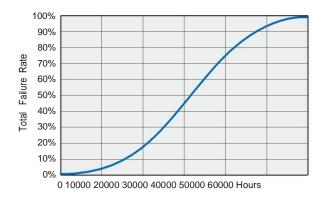






Lifetime + Sustainability

Failure Rate Curve of MASTER LED MV D 4-25W



MASTER LED Warm White candle has a lifetime exceeding 20,000 hours defined as (L70, B50), where:

- B50, 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 burning, and at rated voltage.

Recommended dimmers

You find a selection of recommended dimmers for the MASTER candles 4-25 W in the list below.

	#	#		Max. Lamps per Dimmer			
Brand	Type #	Load Type	Load	E14/B15	E27B22		
HPM	2000E	RL	2000W	П	20		
HPM	2400E	RL	2400W	20	20		
Honeyell	S8501	R	500W	20	20		
Honeyell	\$1512	R	600W	20	20		
Honeyell	\$1535	R	1000₩	20	20		
Honeyell	E8501	R	500W	20	20		
Honeyell	K63501	RL	40-500VV	20	20		
Honeyell	S8522	R	500W	20	20		
Honeyell	\$63535	RL	1000₩	20	20		
HPM	1000LMWE	RC	1000₩	20	20		
HPM	700LWE	RL	10-700W	20	20		
ASA	ASA500	R	500W	20	20		
Electrex	DM500	R	500W	20 (min. 6 lamps per dimmer)	20		
Clipsal	32/1000	RL	1000W	20 (min. 6 lamps per dimmer)	20		
Wintop	13412	R	50-500W	20	20 (min. 4 lamps per dimmer)		



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