

## **Philips MASTER**

# LEDbulb DIM 13-75 W & 18-100 W E27/B22 2700 K 230 V

Dimmable LED replacement for a 75 W/100 W GLS bulb with warm white light all around.

Philips MASTER LEDbulb integrates leading high power LED light source and compact high efficiency driver into a traditional incandescent A-shape form-factor. Not only does it employ hi-tech IC solution to ensure the dimming system control, it also delivers high quality light, all-around the lamp, to ensure direct replacement of GLS bulbs in every application. Unlike the traditional incandescent lamps, the MASTER LEDbulb offers 80% energy saving and a longer lifetime of 25,000 hours. This is especially ideal for 24/7 applications to ensure minimum maintenance cost and maximum energy saving.





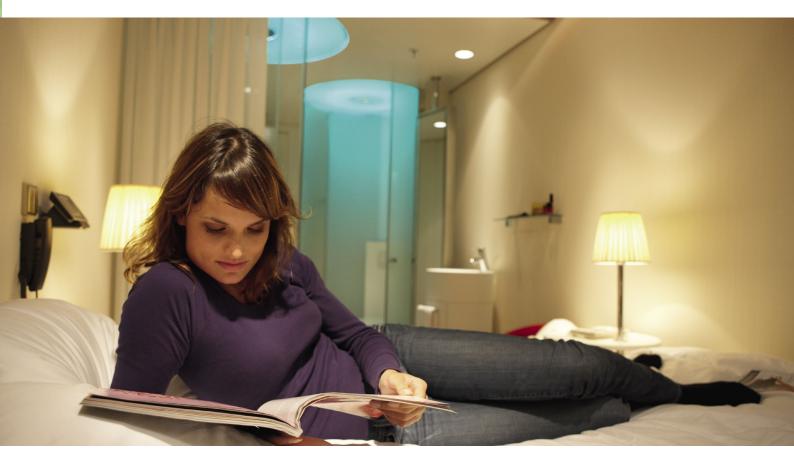






- Form factor is designed as a direct retrofit into A67 fixtures
- 75 W 1055 lm, 100 W 1521 lm
- · Long lifetime of 25,000 hours
- Warm light all around; beam angle >300 D
- CCT: 2700 K
- Consumes only 13 W/18 W (230 V) and replaces traditional 75 W/100 W GLS bulbs at 80% energy savings. Ideal for general lighting applications
- · No UV and no heat in the beam
- Environmental friendly, no mercury and RoHS compliance

# 6 Dimmable warm light for a warm atmosphere"



## Application areas

The warm light and dimming effect makes it ideal for general lighting applications in the retail and hospitality industry by offering their guests a differentiating ambiance and unique experience in public areas like:

- Luxury restaurants
- · Elite shops
- · Corridors / Stairways / Washrooms
- · Lobby / Reception areas
- Hotel rooms / Bars

### Application notes

- Operating temperature range is between -20 °C and 45 °C ambient
- Only to apply in dry or damp locations and open fixtures with E27/B22 lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights
- For use in fixtures that can structurally support a lamp weighing one quarter kilogram

## **Product features**

### **Technical Specifications**

Product type	Voltage	Wattage	Base	Power	Color	Light	Lifetime	CRI	Dimmable*
				Factor	temp.	Output			
	(V)	(W)			(K)	(Lm)	(hours)		
MASTER LEDbulb 13-75W 2700K E27	220-240	13	E27	0.9	2700	1055	25,000	80	Yes
MASTER LEDbulb 13-75W 2700K B22	220-240	13	B22	0.9	2700	1055	25,000	80	Yes
MASTER LEDbulb 18-100W 2700K E27	220-240	18	E27	0.9	2700	1521	25,000	80	Yes
MASTER LEDbulb 18-100W 2700K B22	220-240	18	B22	0.9	2700	1521	25,000	80	Yes

<sup>\*</sup> For information about dimming compatibility we would like to refer to the recommended dimmerlist on the Philips LED Lamps website: www.philips.com/masterledlamps

#### **Dimensions**

Туре	C max.	D max.	
	Overall Length	Diameter	Weight
	(mm)	(mm)	(kg)
MASTER LEDbulb 13-75W/18-100W 2700K E27/B22	127	39	0.24

#### MASTER LEDbulb E27

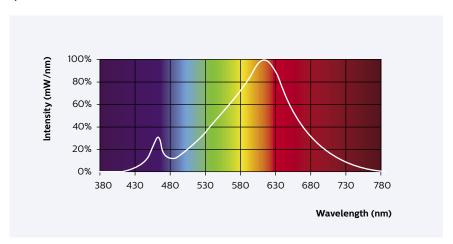


#### MASTER LEDbulb B22



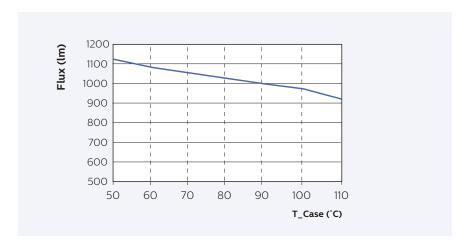
#### **Spectral Power Distribution**

#### Spectrum MASTER LEDbulb



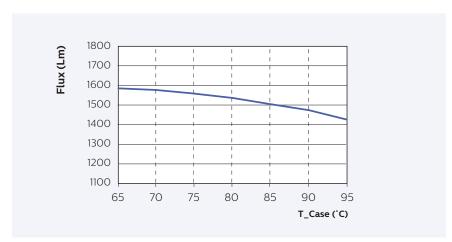
#### **Temperature**

#### MASTER LEDbulb 13-75 W





#### MASTER LEDbulb 18-100 W

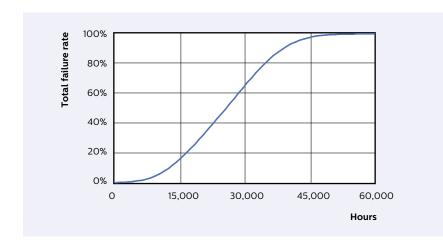


#### Lumen Maintenance MASTER LEDbulb 13-75 W and 18-100 W

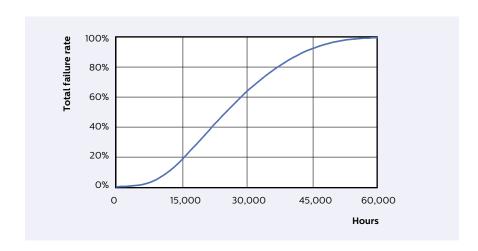


#### Lifetime + Sustainability

Failure Rate Curve of MASTER LEDbulb 13-75 W



### Failure Rate Curve of MASTER LEDbulb 18-100 W



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

- Philips MASTER LEDbulb 75 W/100 W 2700 K Dimmable has a lifetime of 25,000 hours, defined as the number of hours when 50% of a large group of identical lamps below 70% of its initial lumens.
- Lifetime estimation based on the application environment condition: please refer to the Tc for lifetime forecast.

# **Photometric Diagrams**



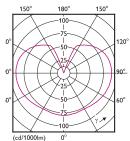
#### MASTER LEDbulb 13-75 W E27/B22

1 x 1055 lm

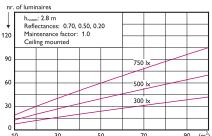
Light output ratio	1.00
Service upward	0.47
Service downward	0.53

CIE flux code	23 48 73 53 100
UGRcen (4Hx8H, 0.25H)	25

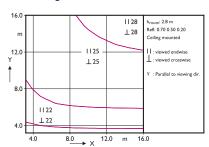
#### Polar intensity diagram



#### Quantity estimation diagram



#### UGR diagram



# PHILIPS

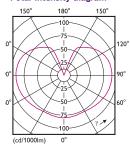
#### MASTER LEDbulb 18-100 W E27/B22

1 x 1521 lm

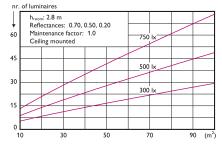
Light output ratio	1.00		
Service upward	0.47		
Service downward	0.53		

CIE flux code	23 48 73 53 100
UGRcen (4Hx8H, 0.25H)	26

#### Polar intensity diagram



#### Quantity estimation diagram



#### UGR diagram

