



PHILIPS

LEDbulb



Technical Application Guide

Philips LED Bulb

3000K/6500K 100-240V

Philips LEDbulb deliver high quality light to ensure direct replacement of GLS bulbs in indoor application. The beam of light is free of infra-red meaning no heat is radiated, and no ultra-violet light means that fabric and items under this light won't fade.

Philips LEDbulb offers up to 85% energy saving and a longer lifetime of 15,000 hours (equivalent to 15 years if lit 2.7 hours per day across 365 days).



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85%
Energy cost
saving



Design highlights

- Form factor is designed as a direct retrofit into A60/A67 fixtures
- Long lifetime of 15,000 hours
- Warm white CCT 3000K and cool daylight CCT 6500K available
- No UV and No IR
- Environmental friendly, no Mercury or any other hazardous substances
- Low Carbon Footprint



Application areas

The warm light 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:

- Elite shops
- Corridors / Stairways / Washrooms
- Lobby / Reception areas
- Hotel rooms / Bars
- Home

Application notes

- Operating temperature range is between -20 °C and 40 °C ambient
- Only to apply in dry or damp locations and most of 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
- Not intended for enclosed luminaires

Product features

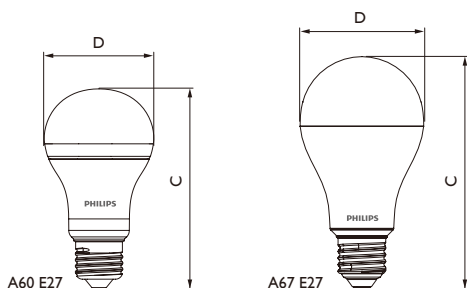
Technical Specifications

Product type	Voltage (V)	Wattage (W)	Cap	Bulb shape	CCT (K)	Lumen (Lm)	Luminous efficacy (=lm/W)	Lifetime (hours)	CRI	Power Factor	Dimmable
LEDBulb 6W-48W E27 3000K W A60 PF ME	100-240V	6	E27	A60	3000	600	86	15000	80	>0.7	No
LEDBulb 6W-48W E27 6500K W A60 PF ME	100-240V	6	E27	A60	6500	600	86	15000	80	>0.7	No
LEDBulb 7.5W-60W E27 3000K W A60 PF ME	100-240V	7.5	E27	A60	3000	806	90	15000	80	>0.7	No
LEDBulb 7.5W-60W E27 6500K W A60 PF ME	100-240V	7.5	E27	A60	6500	806	90	15000	80	>0.7	No
LEDBulb 9.5W-75W E27 3000K W A60 PF ME	100-240V	9.5	E27	A60	3000	1055	106	15000	80	>0.7	No
LEDBulb 9.5W-75W E27 6500K W A60 PF ME	100-240V	9.5	E27	A60	6500	1055	106	15000	80	>0.7	No
LEDBulb 14W-100W E27 3000K W A67 PF ME	100-240V	14	E27	A67	3000	1521	108	15000	80	>0.7	No
LEDBulb 14W-100W E27 6500K W A67 PF ME	100-240V	14	E27	A67	6500	1521	108	15000	80	>0.7	No

Dimensions

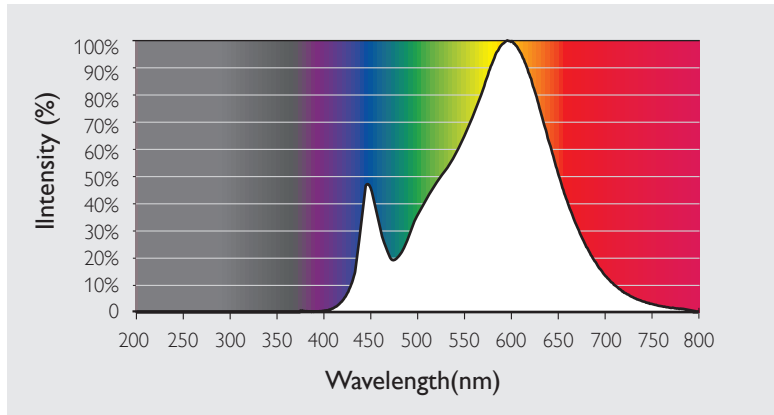
Type	C typical Overall Length (mm)	D typical Diameter (mm)
LEDBulb 6W-48W E27 3000K W A60 PF ME	110	60
LEDBulb 6W-48W E27 6500K W A60 PF ME	110	60
LEDBulb 7.5W-60W E27 3000K W A60 PF ME	110	60
LEDBulb 7.5W-60W E27 6500K W A60 PF ME	110	60
LEDBulb 9.5W-75W E27 3000K W A60 PF ME	110	60
LEDBulb 9.5W-75W E27 6500K W A60 PF ME	110	60
LEDBulb 14W-100W E27 3000K W A67 PF ME	127	67
LEDBulb 14W-100W E27 6500K W A67 PF ME	127	67

LEDbulb

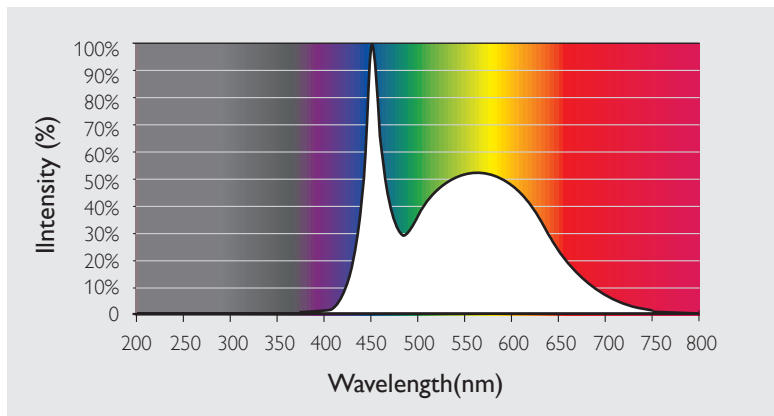


Spectral Power Distribution

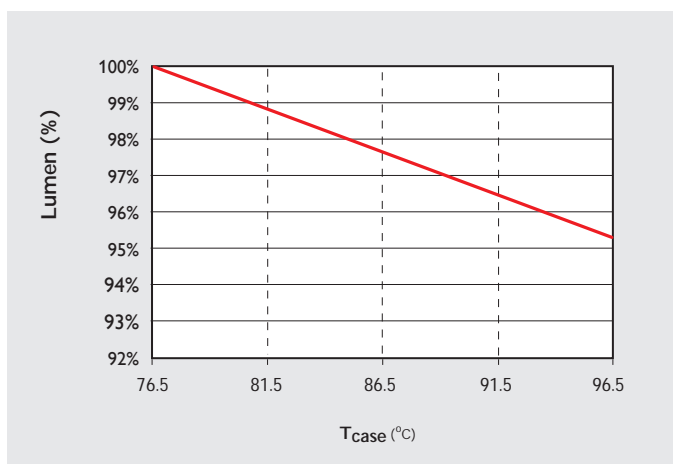
Spectrum LEDbulb 3000K



Spectrum LEDbulb 6500K



Temperature



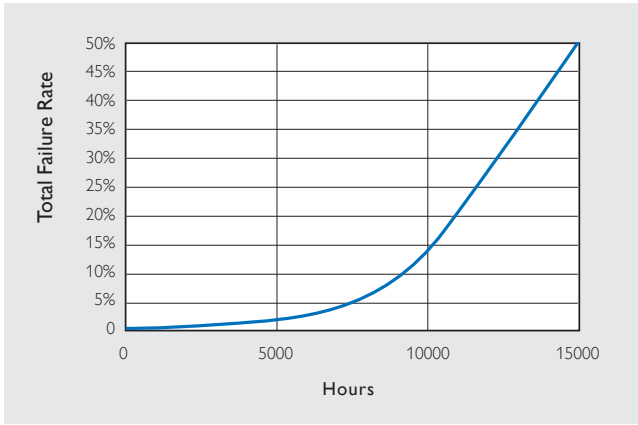
T_c.

600 lm T_c Max: 90 °C
 806 lm T_c Max: 100 °C
 1055 lm T_c Max: 100 °C



T_c.

1521 lm T_c Max: 100 °C



Photometric Diagrams

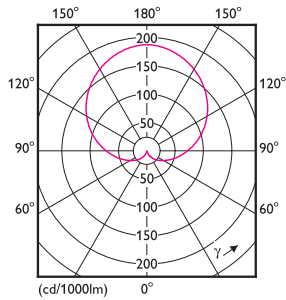


LED Bulb 6.5W-48W 3000K W A60 PF ME

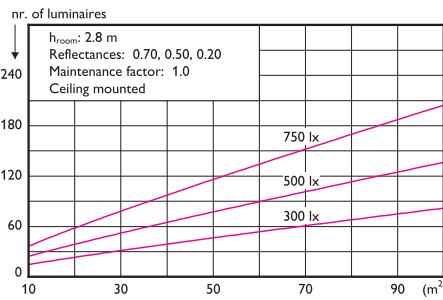
1 x 600 lm

Light output ratio	1.00	CIE flux code	7 26 56 22 100
Service upward	0.78		
Service downward	0.22	UGR _{cen} (4Hx8H, 0.25H)	19

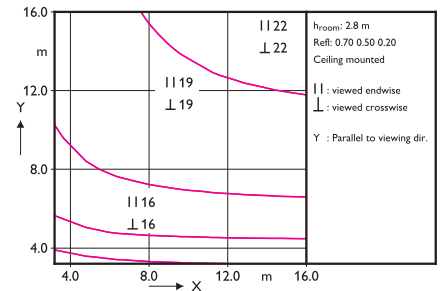
Polar intensity diagram



Quantity estimation diagram



UGR diagram

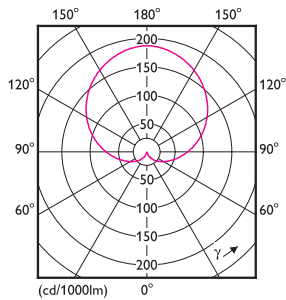


LED Bulb 6.5W-48W 6500K W A60 PF ME

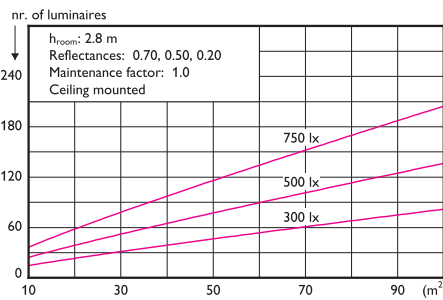
1 x 600 lm

Light output ratio	1.00	CIE flux code	7 26 56 22 100
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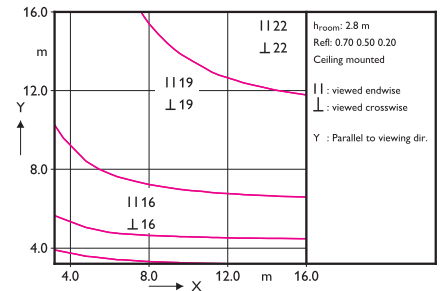
Polar intensity diagram



Quantity estimation diagram



UGR diagram





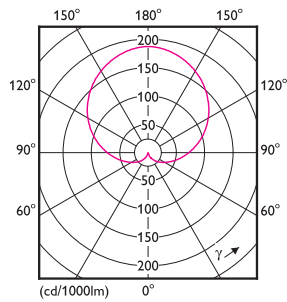
LEDBulb 7.5W-60W 3000K W A60 PF ME

1 x 806 lm

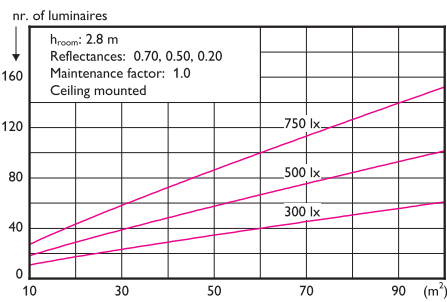
Light output ratio 1.00
Service upward 0.78
Service downward 0.22

CIE flux code 7 26 56 22 100
UGRc_{en} (4Hx8H, 0.25H) 20

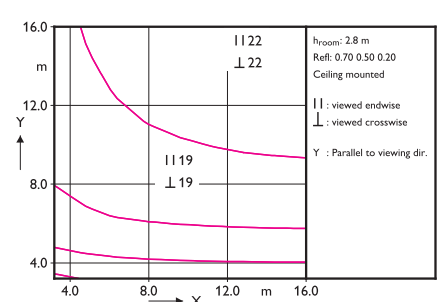
Polar intensity diagram



Quantity estimation diagram



UGR diagram



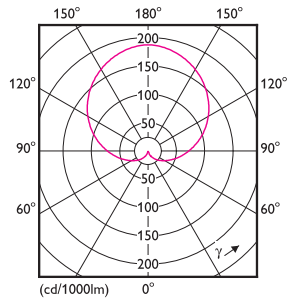
LEDBulb 7.5W-60W 6500K W A60 PF ME

1 x 806 lm

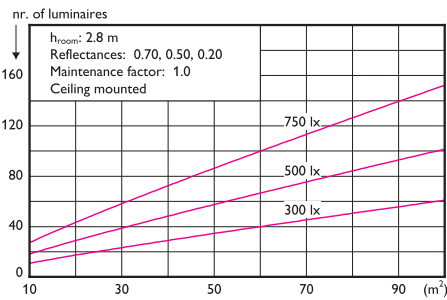
Light output ratio 1.00
Service upward 0.78
Service downward 0.22

CIE flux code 7 26 56 22 100
UGRc_{en} (4Hx8H, 0.25H) 20

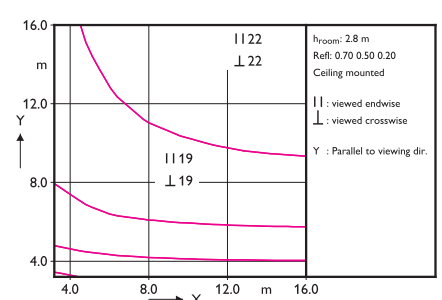
Polar intensity diagram



Quantity estimation diagram



UGR diagram



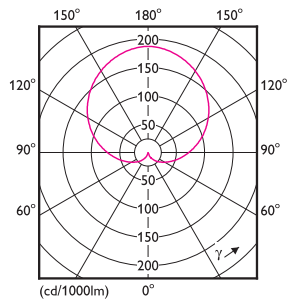
LEDBulb 9.5W-75W 3000K W A60 PF ME

1 x 1055 lm

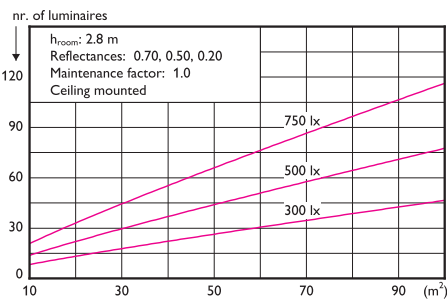
Light output ratio 1.00
Service upward 0.78
Service downward 0.22

CIE flux code 7 26 56 22 100
UGRc_{en} (4Hx8H, 0.25H) 21

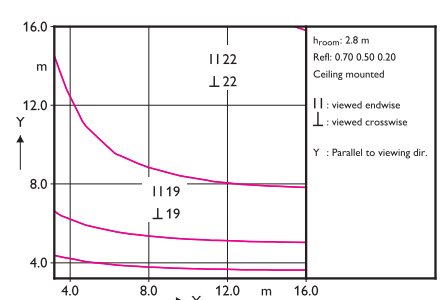
Polar intensity diagram



Quantity estimation diagram



UGR diagram





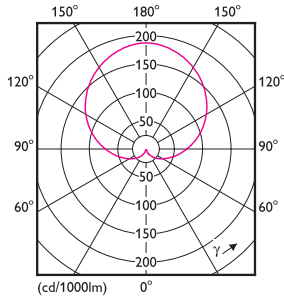
LED Bulb 9.5W-75W 6500K W A60 PF ME

1 x 1055 lm

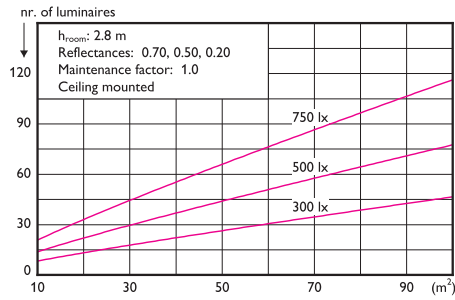
Light output ratio 1.00
Service upward 0.78
Service downward 0.22

CIE flux code 7 26 56 22 100
UGRc_{en} (4Hx8H, 0.25H) 21

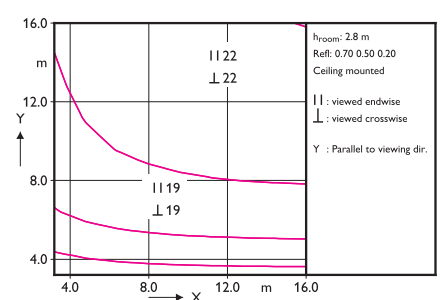
Polar intensity diagram



Quantity estimation diagram



UGR diagram



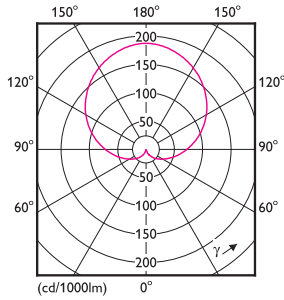
LED Bulb 14W-100W 3000K W A67 PF ME

1 x 1510 lm

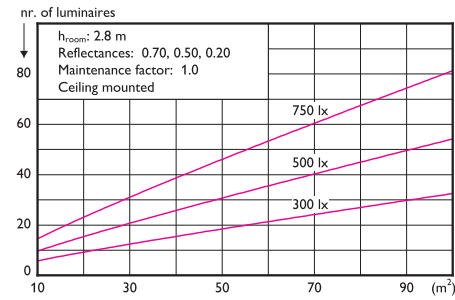
Light output ratio 1.00
Service upward 0.78
Service downward 0.22

CIE flux code 7 26 56 22 100
UGRc_{en} (4Hx8H, 0.25H) 21

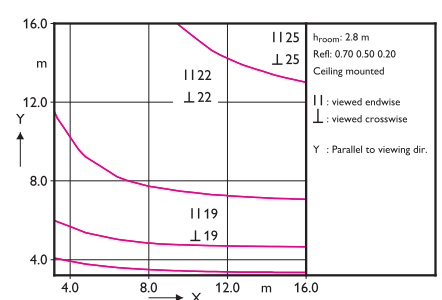
Polar intensity diagram



Quantity estimation diagram



UGR diagram



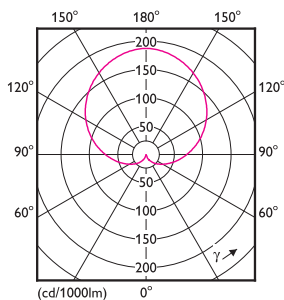
LED Bulb 14W-100W 6500K W A67 PF ME

1 x 1521 lm

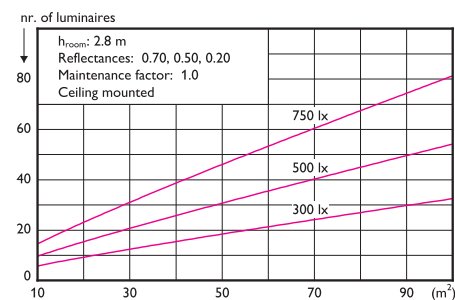
Light output ratio 1.00
Service upward 0.78
Service downward 0.22

CIE flux code 7 26 56 22 100
UGRc_{en} (4Hx8H, 0.25H) 21

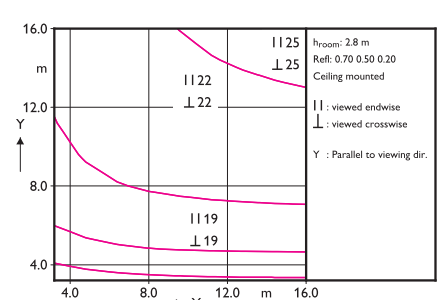
Polar intensity diagram



Quantity estimation diagram

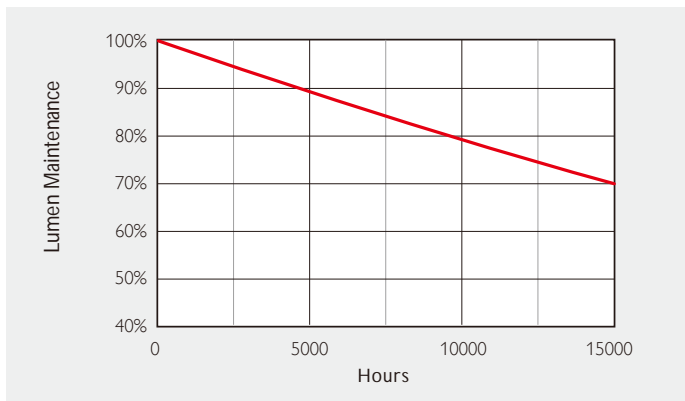


UGR diagram



Lifetime + Sustainability

Lumen Maintenance Curve of LEDbulb 3000K/6500K 100-240V



Philips LEDbulb has a lifetime exceeding 15,000 hours defined as (F50L70), where:

- F50L70, 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, baseup burning position, and at rated voltage.



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