

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).







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 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 | Wattage | Сар | Bulb shape | ССТ | Lumen | Luminous efficacy | Lifetime | CRI | Power Factor | Dimmable | KSA EEI Label |
|---|----------|---------|-----|---------------|------|-------|----------------------|----------|-----|-----------------|----------|---------------------|
| | (V) | (W) | | | (K) | (Lm) | (=lm/W) | (hours) | | | | |
| LEDBulb 6W-48W E27 3000K W A60 PF | 100-240V | 6 | E27 | A60 | 3000 | 600 | 86 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 6W-48W E27 6500K W A60 PF | 100-240V | 6 | E27 | A60 | 6500 | 600 | 86 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 7.5W-60W E27 3000K W A60 PF | 100-240V | 7.5 | E27 | A60 | 3000 | 806 | 90 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 7.5W-60W E27 6500K W A60 PF | 100-240V | 7.5 | E27 | A60 | 6500 | 806 | 90 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 9.5W-75W E27 3000K W A60 PF | 100-240V | 9.5 | E27 | A60 | 3000 | 1055 | 106 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 9.5 W-75W E27 6500K W A60 PF | 100-240V | 9.5 | E27 | A60 | 6500 | 1055 | 106 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 14W-100W E27 3000K W A67 PF | 100-240V | 14 | E27 | A67 | 3000 | 1521 | 108 | 15000 | 80 | >0.7 | No | В |
| LEDBulb 14W-100W E27 6500K W A67 PF | 100-240V | 14 | E27 | A67 | 6500 | 1521 | 108 | 15000 | 80 | >0.7 | No | В |
| | | | | | | | | | | | | |

Dimensions

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

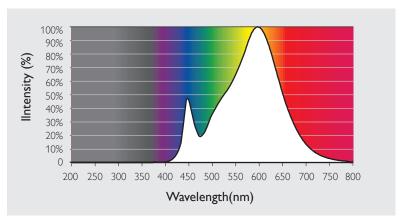
LEDbulb



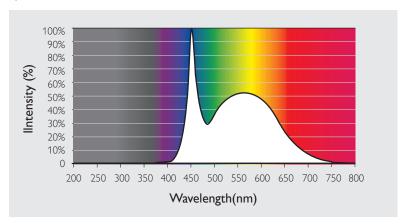


Spectral Power Distribution

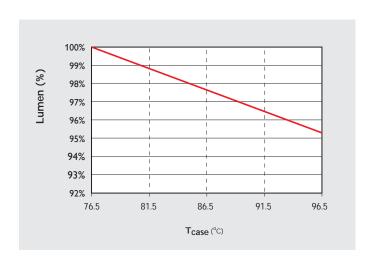
Spectrum LEDbulb 3000K



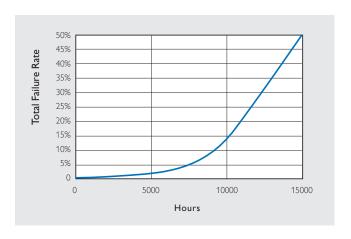
Spectrum LEDbulb 6500K



Temperature







Photometric Diagrams



LEDBulb 6.5W-48W 3000K W A60 PF

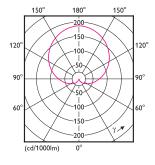
1 x 600 lm

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

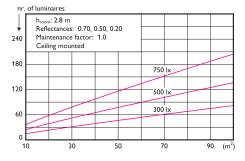
 Service upward
 0.78

 Service downward
 0.22
 UGRcen (4Hx8H, 0.25H)
 19

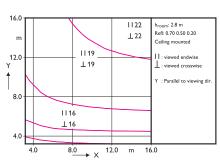
Polar intensity diagram



Quantity estimation diagram



UGR diagram





LEDBulb 6.5W-48W 6500K W A60 PF

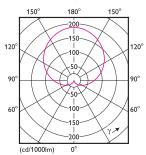
1 x 600 lm

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

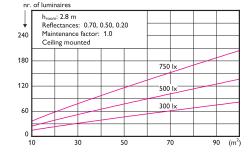
 Service upward
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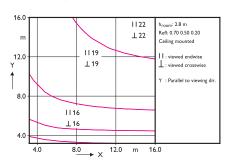
Polar intensity diagram



Quantity estimation diagram



UGR diagram





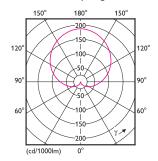




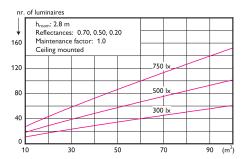
Light output ratio 1.00 Service upward 0.78 CIE flux code 7 26 56 22 100

0.22 UGRcen (4Hx8H, 0.25H) Service downward

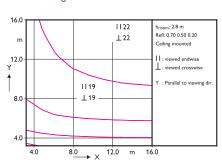
Polar intensity diagram



Quantity estimation diagram



UGR diagram

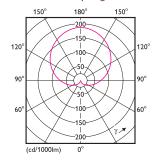


LEDBulb 7.5W-60W 6500K WA60 PF

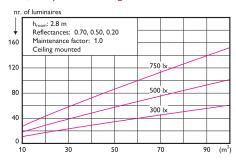
1 x 806 lm

1.00 7 26 56 22 100 Light output ratio CIE flux code Service upward 0.78 Service downward 0.22 UGRcen (4Hx8H, 0.25H)

Polar intensity diagram

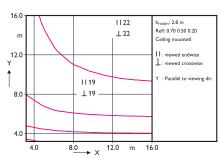


Quantity estimation diagram



20

UGR diagram



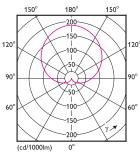


LEDBulb 9.5W-75W 3000KW A60 PF

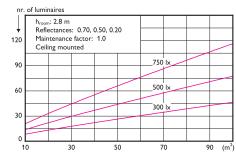
1 x 1055 lm

Light output ratio 1 00 CIE flux code 7 26 56 22 100 Service upward 0.78 0.22 UGRcen (4Hx8H, 0.25H) Service downward

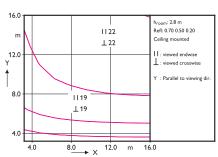
Polar intensity diagram



Quantity estimation diagram



UGR diagram





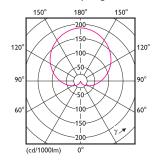




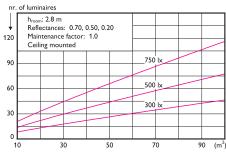
Light output ratio 1.00 Service upward 0.78 Service downward 0.22 CIE flux code 7 26 56 22 100

UGRcen (4Hx8H, 0.25H) 2

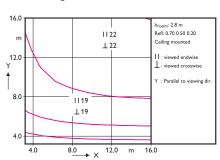
Polar intensity diagram







UGR diagram



PHILIPS

LEDBulb 14W-100W 3000KW A67 PF

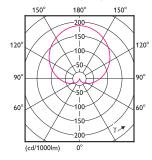
1 x 1521 lm

Light output ratio 1.00 CIE flux code
Service upward 0.78
Service downward 0.22 UGRcen (4Hx8

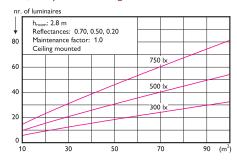
ux code 7 26 56 22 100

UGRcen (4Hx8H, 0.25H) 21

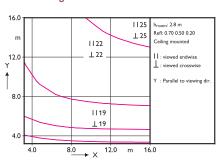
Polar intensity diagram



Quantity estimation diagram



UGR diagram





LEDBulb 14W-100W 6500K W A67 PF

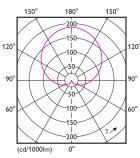
1 x 1521 lm

Light output ratio 1.00
Service upward 0.78
Service downward 0.22

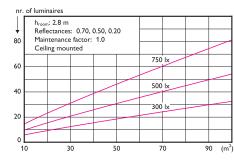
CIE flux code 7 26 56 22 100

UGRcen (4Hx8H, 0.25H) 21

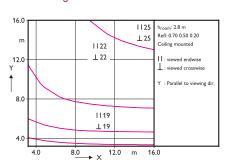
Polar intensity diagram



Quantity estimation diagram

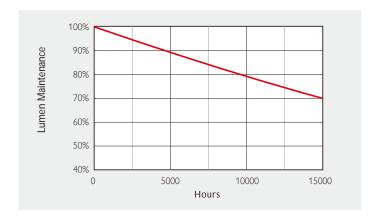


UGR diagram



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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