



# Essential LED - Affordable LED solution

## Essential LED

Essential LED is an affordable LED spot lamp that is suitable for replacing halogen spot lamps. It provides a natural lighting effect as well as instant energy savings – an environmentally friendly solution. The Philips Essential LED family is designed for spot and general lighting applications in the hospitality, retail and home segments.

### Benefits

- Reduced operational cost thanks to energy savings of up to 80%
- Lower maintenance cost thanks to more than five times longer lifetime than conventional halogen spot lamps
- Easy retrofit, upgrading the existing luminaire to LED technology

### Features

- Lower energy consumption compared to halogen spot lamp
- Retrofit replacement of halogen spot lamps with existing transformers
- No UV/IR or mercury

### Application

- Hospitality (restaurants, hotels, coffee bars)
- Retail
- Homes

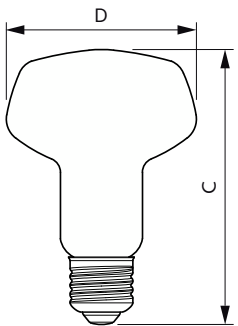
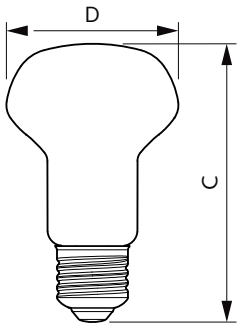
# Essential LED

## Versions



LEDspot ESS 7W E27 R63 827-865  
12D ND RCA

## Dimensional drawing



| Product                       | D     | C      |
|-------------------------------|-------|--------|
| ESS LED 7W E27 2700K 230V R63 | 63 mm | 102 mm |
| ESS LED 7W E27 6500K 230V R63 | 63 mm | 102 mm |

| Product                       | D     | C      |
|-------------------------------|-------|--------|
| ESS LED 9W E27 2700K 230V R80 | 80 mm | 115 mm |
| ESS LED 9W E27 6500K 230V R80 | 80 mm | 115 mm |

# Essential LED

## General Information

|                  |                |
|------------------|----------------|
| Cap-Base         | E27            |
| Switching Cycle  | 50,000         |
| Nominal lifetime | 15,000 hour(s) |

## Light Technical

|                             |               |
|-----------------------------|---------------|
| Beam Angle (Nom)            | 120 degree(s) |
| Color rendering index (CRI) | 80            |

## Operating and Electrical

|                     |             |
|---------------------|-------------|
| Input Frequency     | 50 to 60 Hz |
| Line Frequency      | 50 to 60 Hz |
| Starting Time (Nom) | 0.5 s       |

## Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

## Light Technical

| Order Code | Full Product Name             | Correlated Color Temperature (Nom) | Color Code | LLMF At End Of         |               |
|------------|-------------------------------|------------------------------------|------------|------------------------|---------------|
|            |                               |                                    |            | Nominal Lifetime (Nom) | Luminous Flux |
| 79879900   | ESS LED 7W E27 2700K 230V R63 | 2700 K                             | 827        | 70 %                   | 680 lumen     |
| 79815700   | ESS LED 7W E27 6500K 230V R63 | 6500 K                             | 865        | 70 %                   | 720 lumen     |
| 79817100   | ESS LED 9W E27 2700K 230V R80 | 2700 K                             | 827        | 0.7 %                  | 880 lumen     |
| 79821800   | ESS LED 9W E27 6500K 230V R80 | 6500 K                             | 865        | 0.7 %                  | 950 lumen     |

## Operating and Electrical

| Order Code | Full Product Name             | Power Consumption | Wattage Equivalent |
|------------|-------------------------------|-------------------|--------------------|
| 79879900   | ESS LED 7W E27 2700K 230V R63 | 7 W               | 70 W               |
| 79815700   | ESS LED 7W E27 6500K 230V R63 | 7 W               | 70 W               |

| Order Code | Full Product Name             | Power Consumption | Wattage Equivalent |
|------------|-------------------------------|-------------------|--------------------|
| 79817100   | ESS LED 9W E27 2700K 230V R80 | 9 W               | 80 W               |
| 79821800   | ESS LED 9W E27 6500K 230V R80 | 9 W               | 80 W               |

## Temperature

| Order Code | Full Product Name             | T-Case Maximum (Nom) |
|------------|-------------------------------|----------------------|
| 79879900   | ESS LED 7W E27 2700K 230V R63 | 68 °C                |
| 79815700   | ESS LED 7W E27 6500K 230V R63 | 68 °C                |

| Order Code | Full Product Name             | T-Case Maximum (Nom) |
|------------|-------------------------------|----------------------|
| 79817100   | ESS LED 9W E27 2700K 230V R80 | 72 °C                |
| 79821800   | ESS LED 9W E27 6500K 230V R80 | 72 °C                |

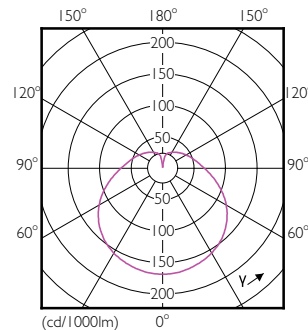
## Mechanical and Housing

| Order Code | Full Product Name             | Bulb Shape |
|------------|-------------------------------|------------|
| 79879900   | ESS LED 7W E27 2700K 230V R63 | R63        |
| 79815700   | ESS LED 7W E27 6500K 230V R63 | R63        |

| Order Code | Full Product Name             | Bulb Shape |
|------------|-------------------------------|------------|
| 79817100   | ESS LED 9W E27 2700K 230V R80 | R80        |
| 79821800   | ESS LED 9W E27 6500K 230V R80 | R80        |

## Approval and Application

| Order Code | Full Product Name             | Energy Consumption kWh/1000 h |
|------------|-------------------------------|-------------------------------|
| 79879900   | ESS LED 7W E27 2700K 230V R63 | 7 kWh                         |
| 79815700   | ESS LED 7W E27 6500K 230V R63 | 7 kWh                         |
| 79817100   | ESS LED 9W E27 2700K 230V R80 | 9 kWh                         |
| 79821800   | ESS LED 9W E27 6500K 230V R80 | 9 kWh                         |



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