

# LED Energy Smart™ R111 Dimmable

12 & 15W replacements for 75 & 100W



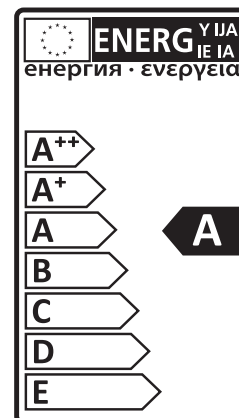
DATA SHEET

## Product information

The newly launched range of R111 Energy Smart™ gives you a newly developed design with a fantastic energy saving opportunity versus 75W and 100W halogen light sources. The new COB design will provide more consistent light distribution and a beautiful aesthetic at the same time.

## Features & benefits

- "A" Energy Class
- 800-1000 total lumens
- Non-glare Fresnel lens
- 30,000 Life hours at L70
- Available in 2700 and 3000K
- Dimmable
- 12V retrofit



## Application areas



Retail



Hospitality

## Compliance

- EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting
- EN 61547: Equipment for general lighting purposed EMC immunity requirements
- EN 61000-3-3: Limitation of voltage fluctuations and flicker in low voltage supply systems (equipment rated current  $\leq 16A$ )
- EN 61000-3-2: Limits — Limits for harmonic current emissions (equipment input current  $\leq 16 A$  per phase)
- IEC 62471: Photo biological safety of lamps and lamp systems
- IEC 60061: Lamp Caps and holders together with gauges for the control of interchangeability and safety



GE imagination at work

## Specification summary

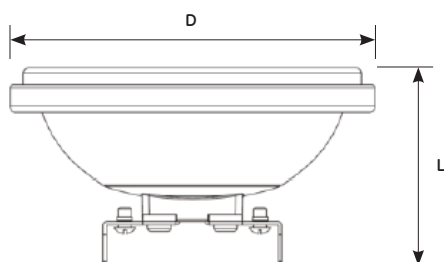
| Type | Rated Power [W] | Base | CCT [K] | Total Lumens [lm] | DIM2 Lumen [lm] | Rated Angle [°] | CBCP | Life L70 [hrs] | EEC | Energy Consumption [kWh/1000h] | Pack Qty | Code     |
|------|-----------------|------|---------|-------------------|-----------------|-----------------|------|----------------|-----|--------------------------------|----------|----------|
| R111 | 12              | G53  | 2700    | 800               | 720             | 35              | 2100 | 30000          | A   | 12,00                          | 1/10     | 93012778 |
| R111 | 12              | G53  | 3000    | 800               | 720             | 35              | 2100 | 30000          | A   | 12,00                          | 1/10     | 93012777 |
| R111 | 15              | G53  | 2700    | 1000              | 900             | 35              | 2400 | 30000          | A   | 15,00                          | 1/10     | 93012749 |
| R111 | 15              | G53  | 3000    | 1000              | 900             | 35              | 2400 | 30000          | A   | 15,00                          | 1/10     | 93012750 |

## Common attributes

- Colour Rendering Index: >80
- Input Voltage: 12V
- Warm up time: instant on
- Switching cycles: 50,000
- Power factor: 0.9

## Dimensions

| Reference | Dimension [mm] |
|-----------|----------------|
| D         | 111            |
| L         | 57             |



## Maximum $T_{hs}$ recommended

$T_{hs}$  is the maximum temperature of the heat sink that the lamp can still meet the life claims of as called out in the PTS Section 5.0. For all installations, at minimum 10mm clearance between the lamp and fixture is required for proper lamp performance and life.

|      | Heatsink | Housing |
|------|----------|---------|
| 25°C | 67.6     | 61.5    |



## Operation and maintenance

- Store and use the lamps the same way as traditional lamps.
- Check your fixtures are properly wired and don't deliver voltage spike to lamps causing overheating/failure.
- Ambient temperature range -20° C to 40°C
- Lamps should be kept free from contamination.
- Good condition of the lamp-holder contacts is important to ensure proper operation of lamp.
- Ensure lamp is cool before removing.
- Switch off mains supply before installing/removing lamp.
- Not for use in totally enclosed recessed fixtures.

GE LED Precise R111 lamps are dimmable on most leading and trailing edge dimmers, for more information please check our website [www.gelighting.com/dimming-led](http://www.gelighting.com/dimming-led).