



Genura™ R80

Description

Based on fluorescent gas discharge and electromagnetic induction operating principles the Genura™ R80 lamp is part of GE's range of "Energy saving" lamps. The Genura™ R80 can be used to replace existing incandescent reflector (R80) lamps rated up to 100W providing a saving of over 75% in energy consumption whilst maintaining similar light output levels. The improved shape of the Genura™ R80 lamps compared with conventional compact fluorescent and other energy saving lamps allows a greater number of sockets to be converted from incandescent thereby increasing the opportunity of reducing energy consumption for a minimal investment. The shape of the Genura™ R80 lamp also provides superior light distribution when compared with standard retrofit compact fluorescent lamps.

Applications

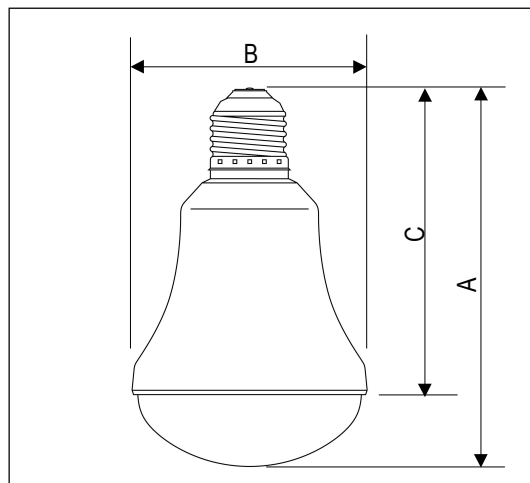
Commercial and industrial applications allow significant savings in energy to be realised. The Genura™ R80 lamp is ideally suited for downlighting and spotlighting applications in areas such as hotel receptions, foyers, corridors, conference rooms and commercial offices. In addition the Genura™ R80 is recommended for use in areas:

- where access to lamp sockets is difficult
- with high maintenance costs
- where lamps are left burning for extended periods of time

Physical Data

Rated Lamp Power (W)		23
Dimensions (mm)	A	129
	B	82
	C	101
Cap		E27/27
Mass (gr)		200
Operating position		universal
Rated Average Life (hours) *		15000

* according to IEC standard



Electrical Characteristics

Data for 230V 50Hz circuits tested in 25° C ambient temperature in a base up position.

Rated Lamp Power (W)	23
Objective Lamp Power (W)	23
Nominal Lamp Current (A)	0.210
Operating Voltage (V)	220-240
Minimum Starting Temperature (°C)	-20

Note: Lamp will operate at +1W at 240V and -1W at 220V

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Luminous Characteristics

Colour Temperature (K)	2700, 3000	
Lumen Output	@ 100 hr	1100 lm
	@ 2000 hr	920 lm
Efficacy (lm/W)	48	
Chromacity Co-ordinates - 2700K	x	0.454
	y	0.409
Chromacity Co-ordinates - 3000K	x	0.440
	y	0.405
Colour Rendering Index (Ra)	82	

Lamp Life

Unlike conventional fluorescent or traditional compact fluorescent lamps, the life of the Genura™ R80 lamp is not affected by the frequency of switching. This is due to the fact that the electrodes found in a conventional fluorescent lamp have been eliminated thereby extending the average lamp life to 15,000 hours.

Starting

Genura™ R80 lamps will start instantly and will reach 80% light output in less than 15 secs.

Operating Note

Genura™ R80 lamps produce 25% of the heat generated by an incandescent R80 lamp therefore reducing the requirements on air conditioning systems.

Genura™ R80 lamps operate at a frequency of 2.5MHz.

As the electronic control gear used in the Genura™ R80 lamps needs a full and constant current to operate, they cannot be dimmed or used with other electronic switching devices.

In order to protect the integrated electronic gear from overheating, do not use Genura™ in fully enclosed luminaires. In indoor applications, use of cover glass is unnecessary and not recommended.

Standards

Genura™ R80 lamps comply with the relevant clauses of the following safety and performance specifications:

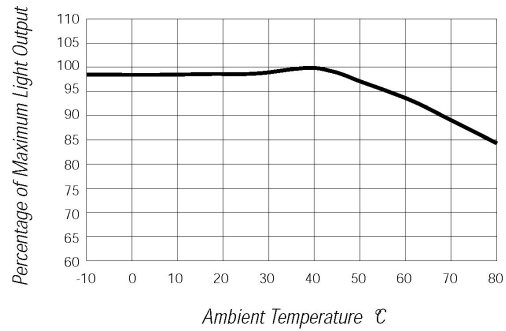
Safety - EN 60968, EN 60061

Performance - EN 60969

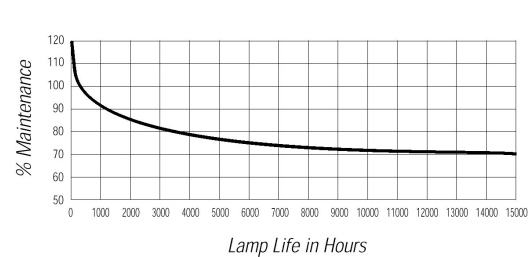
EMI - EN 55015, IEC 61000, EN 61547

Patents Applied for.

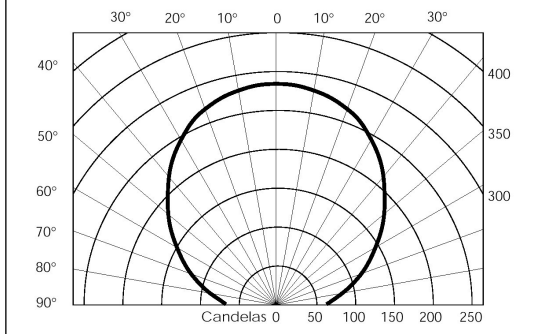
Light Output versus Ambient Temperature



Lumen Maintenance



Luminous Intensity Diagram



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GE Genura™ data sheet

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