

## KTC LED.PowerSpot 4.5W Dimmable LED

### 4.5W Dimmable GU10 PAR16 Lamp



### Product Overview

Suitable for the most demanding of professional users, Kosnic's KTC-PRO range offers lamps that deliver huge energy savings over halogen lamps without compromising on brightness. The lamps can quickly replace halogen products in accent and general lighting applications, and once in place rapid payback is achieved.

### Features

- Save energy up to 85% compared with halogen lamps.
- Dimmable.
- Direct replacement of GU10 halogen lamp.
- High lumen output.
- Long life of 35,000h.
- Instant start.
- Negligible UV output.
- Mercury free.

### Safety and Maintenance

- Switch off supply and allow cooling before handling lamp.
- Use in totally enclosed fittings will reduce lamp life.
- Do not dispose of lamp in household waste.
- Dispose of in appropriate section of local civic amenity site or recycling centre.

## Specifications

Product Code	KPRO4.5DIM/GU10-S30	KPRO4.5DIM/GU10-S40	KPRO4.5DIM/GU10-S65
Lamp Cap	GU10	GU10	GU10
Lamp Shape	PAR16	PAR16	PAR16
Nominal Power (W)	4.5	4.5	4.5
Voltage	220-240Vac 50-60Hz	220-240Vac 50-60Hz	220-240Vac 50-60Hz
Current (mA)	37	37	37
Nominal Useful Luminous Flux (lm)	220	240	250
Total Luminous Flux (lm)	260	280	290
CCT (K)	3000K Warm White	4000K Cool White	6500K Day Light
Nominal Lifetime (h)	35000	35000	35000
Beam Angle (°)	45	45	45
Dimmable	Yes - See website datasheet	Yes - See website datasheet	Yes - See website datasheet
Switching Cycles	50000	50000	50000
Warm-up time to 60% (S)	Instant full light	Instant full light	Instant full light
Suitable for Accent Lighting	Yes	Yes	Yes
Length (mm)	54.0	54.0	54.0
Diameter (mm)	50.0	50.0	50.0
Mercury (mg)	0	0	0
Clean-up instructions	N/A	N/A	N/A
Retrofit	Yes	Yes	Yes
Equivalent Wattage (W)	34	37	38
Rated Power (W)	4.5	4.5	4.5
Rated Useful Luminous Flux (lm)	220	240	250
Rated Lifetime (h)	35000	35000	35000
Power Factor	0.53	0.53	0.53
Rated Peak Candelas (cd)	360	370	380
LMF at Nominal Lifetime	0.75	0.75	0.75
SDCM of CCT	<6	<6	<6
CRI	82	82	82
Start Time (s)	0.30	0.30	0.30
Ambient Temperature Range (°C)	-20 to 40	-20 to 40	-20 to 40

Notes: The Useful Luminous Flux quoted is for the output within a 90° cone as per the EU implementing directive on ecodesign requirements for directional lamps.

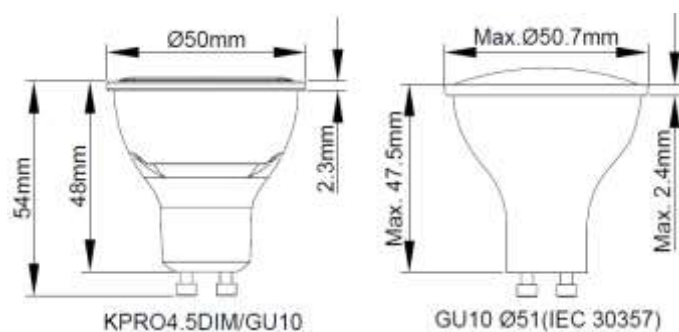
## Product Markings

Manufacturer	Kosnic	Kosnic	Kosnic
Product Code	KPRO4.5DIM/GU10-S30	KPRO4.5DIM/GU10-S40	KPRO4.5DIM/GU10-S65
Volts (V)	220-240Vac 50-60Hz	220-240Vac 50-60Hz	220-240Vac 50-60Hz
Nominal Watts (W)	4.5	4.5	4.5
Current (mA)	37	37	37
Nominal Useful Luminous Flux (lm)	220	240	250
CCT (K)	3000	4000	6500
Beam Angle (°)	45	45	45
CE Mark	Yes	Yes	Yes
WEEE Mark	Yes	Yes	Yes
Batch Code	Yes	Yes	Yes

### Energy Label

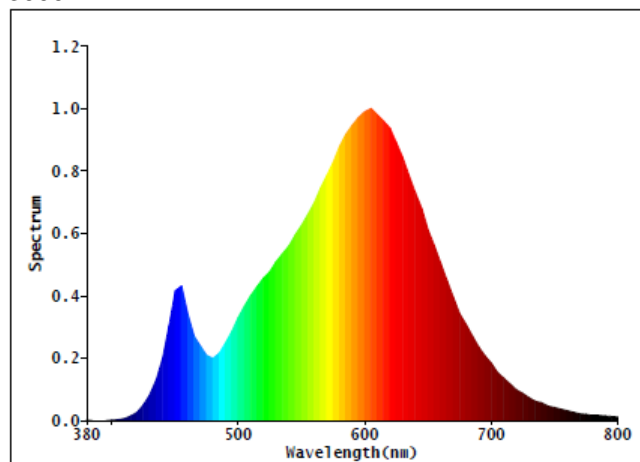
Manufacturer	Kosnic	Kosnic	Kosnic
Product Code	KPRO4.5DIM/GU10-S30	KPRO4.5DIM/GU10-S40	KPRO4.5DIM/GU10-S65
Energy Class	A	A+	A+
Energy Consumption (kWh/1000h)	5	5	5

### Dimensions

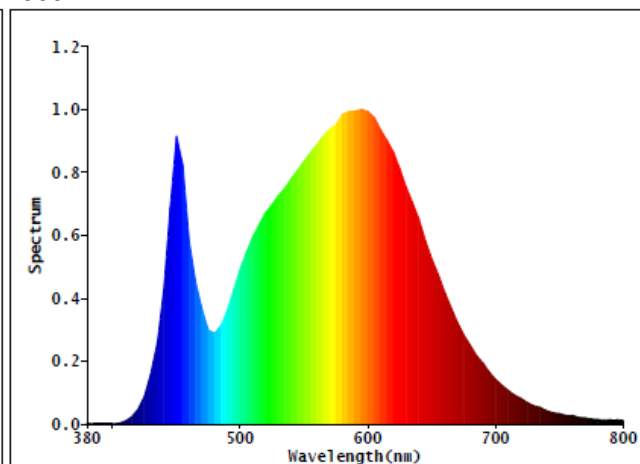


### Photometric Information

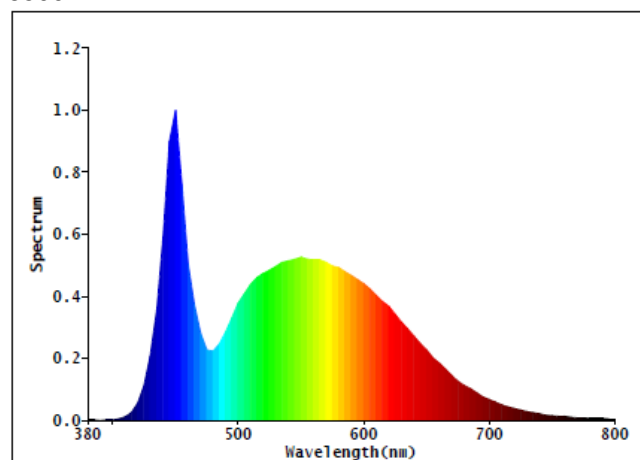
3000K



4000K



6500K



## Compatibility

It is important to appreciate that not all dimmer switches will provide effective, smooth and flicker free dimming. The operation of common mains voltage AC dimmers appears similar but the electrical characteristics vary significantly. While this makes no difference to filament lamps, the effect on the electronics within the LED lamp can be dramatic and are often incompatible.

Please note that all information in this guide is based on testing under laboratory conditions and should be used as guidance only. In the testing dimmers are loaded with up to 100W of lamps for the initial stabilisation period before lower combinations are tested.

Because of the complicated application environment and the variation in dimmer construction from one model to another it is not possible to guarantee that a lamp will work with a particular dimmer and undesirable effects could be observed even with recommended dimmer switches. In extreme cases incompatible dimmer switches may damage the lamps. **Please ensure that the set-up is tested for satisfactory performance before committing to a large project.**

### Recommended Dimmer Switches:

Manufacturer	Model	Marked Rating	Notes
Aurora	AU-DSP400X	400W	1 to 20 lamps. Approx. 95% dimming.
Danlers	DQDGD MK	400W	1 to 6 lamps. Approx. 70% dimming.
Hamilton	H-GDMTM250 (Touch)	250W	2 to 15 lamps. Approx. 95% dimming.
Hamilton	H-LEDStat	100W	1 to 20 lamps. Approx. 95% dimming.
Hamilton	L400/2 (or N4002)	400W	1 to 20 lamps. Approx. 65% dimming.
MK	K1534RP***	250W	1 to 20 lamps. Approx. 65% dimming.
Varilight	Eclique (JDQI401S)	400W	1 to 20 lamps. Approx. 95% dimming.
Varilight	LEDLite (VLLQ1W from TLC)	120W	1 to 20 lamps. Approx. 65% dimming.
Varilight	V-Pro	100W LED	1 to 20 lamps. Approx. 95% dimming.
Zano	ZGRID500	50W LED	1 to 11 lamps. Approx. 75% dimming.