



## Tec II

### **Tec II 5.5W Retrofit LED GU10 range with dim to warm option**

The Kosnic dimmable GU10 lamps are perfect for home and hospitality settings. The lamps are a direct retrofit for standard halogen GU10 lamps and deliver the same aesthetics and ambient light as halogen, while allowing the customer to significantly reduce energy costs. Perfect for hospitality settings such as restaurants, bars and hotels where ambience is an essential factor.

**T5.5D-GUS27 (TEC5.5DIM/GU10-S27) (07617)**

## Specification

|                                     |                    |
|-------------------------------------|--------------------|
| Voltage                             | 220-240Vac 50/60Hz |
| Current (mA)                        | 27                 |
| Rated Power (W)                     | 5.5                |
| CCT Words                           | Warm White         |
| CCT (K)                             | 2700               |
| Total Luminous Flux (lm)            | 660                |
| Beam Angle(°)                       | 36                 |
| Nominal Lifetime (h)                | 25000              |
| L70B50 Lifetime (h)                 | 25000              |
| L80B10 Lifetime (h)                 | 12000              |
| L90 Lifetime (h)                    | 6000               |
| Blue Light Hazard                   | RG1                |
| Glow wire temperature(°C)           | 650                |
| SDCM of CCT                         | <6                 |
| Flicker %                           | <1                 |
| Power Factor                        | 0.9                |
| Dimensions (L x W x D) (mm)         | 53*φ50mm           |
| Ambient Temperature Range (°C)      | -20 to 40          |
| Weight (kg)                         | 0.046              |
| In-rush current (peak/duration) (A) | 0.7A/600us         |
| Protection Rating                   | Class II           |
| IP Rating                           | IP20               |

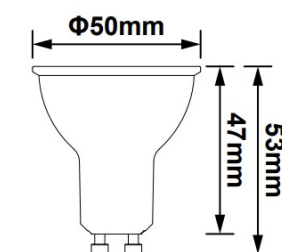
## Light Source Specification

|                                            |      |
|--------------------------------------------|------|
| Lighting Technology Used                   | LED  |
| Directional / Non Directional (DLS/NDLS)   | DLS  |
| Light Source Cap Type (or other interface) | GU10 |
| Mains / Non-Mains (MLS/NMLS)               | MLS  |
| Connected Light source (Y/N)               | N    |

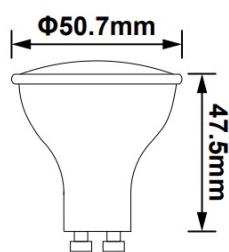
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|---------------------------------------------------------------------------------------------------------------|--------|
| Colour Tunable Light Source (Y/N)                                                                             | N      |
| High Luminance Light Source (Y/N)                                                                             | N      |
| Anti-Glare Shield (Y/N)                                                                                       | N      |
| Dimmable (Y/N/Specific dimmer)                                                                                | Y      |
| Energy Consumption in on-mode (kWh/1000H)                                                                     | 6      |
| Energy Efficiency Class                                                                                       | E      |
| Useful Luminous Flux (lm)                                                                                     | 530    |
| Beam Angle correspondence (in 360°/120°/90°)                                                                  | in 90° |
| CCT                                                                                                           | 2700   |
| On-Mode Power (Pon) (W)                                                                                       | 5.5    |
| Standby Power (Psb) (W)                                                                                       | 0      |
| CRI                                                                                                           | 80     |
| CRI (min)                                                                                                     | 80     |
| CRI (max)                                                                                                     | 84     |
| Height (mm)                                                                                                   | 53     |
| Width (mm)                                                                                                    | 50     |
| Depth (mm)                                                                                                    | 50     |
| Claim of Equivalent Power? (Y/N)                                                                              | Y      |
| Equivalent Power (W)                                                                                          | 74     |
| Chromaticity Co-Ordinates (X)                                                                                 | 0.458  |
| Chromaticity Co-Ordinates (Y)                                                                                 | 0.410  |
| Peak Luminous Intensity (DLS) (cd)                                                                            | 850    |
| Beam Angle (DLS)                                                                                              | 36     |
| Beam Angle (min)(DLS)                                                                                         | 33     |
| Beam Angle (max) (DLS)                                                                                        | 39     |
| Survival Factor (x.xx)                                                                                        | 0.9    |
| Lumen Maintenance Factor (x.xx)                                                                               | 0.96   |
| Displacement Factor                                                                                           | 0.9    |
| Colour Consistency in Mcadam Ellipses (Mains LED/OLED)                                                        | 6      |
| LED light source replaces fluorescent without integrated ballast of particular wattage (Mains LED/OLED) (Y/N) | N      |

|                                       |     |
|---------------------------------------|-----|
| Flicker metric (pst LM) (x,x)         | 0.1 |
| Storoscopic effect metric (SVM) (x,x) | 0.1 |

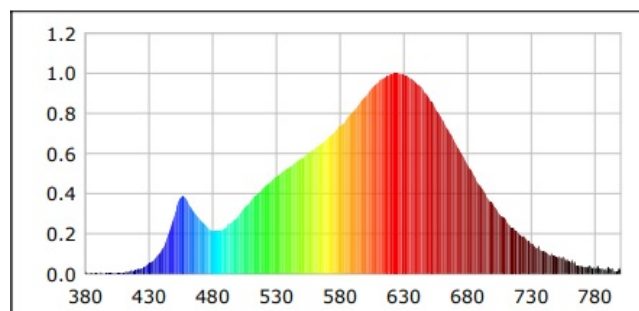
## Technical Drawings



TEC5.5/GU10  
TEC5.5DIM/GU10



GU10Φ51(IEC 60357)



### Dimming 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. Because of the complicated application environment, the huge variation in dimmer construction from one model to another it is not possible to guarantee that a lamp will work with a 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 performance before committing to a large project.

### Recommended Dimmer Switches:

| Manufacturer | Model                     | Marked Rating | Notes                                     |
|--------------|---------------------------|---------------|-------------------------------------------|
| Varilight    | V.Pro                     | 100W LED      | 1 to 18 lamps. Approximately 95% dimming. |
| Aurora       | AU-DSP400X                | 400W          | 1 to 18 lamps. Approximately 95% dimming. |
| Click        | CMA145 (or MD9022)        | 250W          | 1 to 18 lamps. Approximately 85% dimming. |
| Zano         | ZGRIDLED                  | 250W LED      | 1 to 18 lamps. Approximately 95% dimming. |
| Robus        | LOADPRO RLA200DT-01       | 133W LED      | 1 to 18 lamps. Approximately 90% dimming. |
| Hamilton     | LEDITB                    | 5-100W LED    | 1 to 18 lamps. Approximately 95% dimming. |
| Hamilton     | H-LEDSTAT-GR              | 5-100W LED    | 1 to 18 lamps. Approximately 90% dimming. |
| LAP          | H0025/B-SF                | 5-150W        | 1 to 18 lamps. Approximately 95% dimming. |
| Schneider    | 60-400VA TRANSFORMER      | 330W          | 1 to 18 lamps. Approximately 90% dimming. |
| Crabtree     | SFCR1125/LED SFCR1225/LED | 5-100W        | 1 to 18 lamps. Approximately 90% dimming. |
| Danlers      | DQDGD MK                  | 400W          | 1 to 18 lamps. Approximately 85% dimming. |
| Varilight    | Eclique JDQI401S          | 400W          | 1 to 18 lamps. Approximately 85% dimming. |
| CYANIRIS     | CYDIMRFT1 (Remote)        | 2 x 288W      | 1 to 18 lamps. Approximately 95% dimming. |
| MK           | MB1523WHI                 | 6-100W        | 1 to 18 lamps. Approximately 95% dimming. |