

LED.Commercial 12W LED DD

12W GR8 (2-pin) & GR10q (4-pin) LED DD Lamp



Product Overview

Kosnic's range of LED DD lamps takes a fresh approach to functional lighting with a design philosophy offering plug-in emergency packs and optional microwave sensor versions so that there are no barriers to retrofitting LEDs in commercial fittings. The products bring the energy saving capabilities of LED technology to the commercial environment and the lamps can quickly replace fluorescent DD lamps with little or no rewiring.

Features

- Save energy up to 65% compared with a fluorescent DD lamp with magnetic ballast.
- Single side high lumen output for light only where it's needed.
- Long life of 30,000h.
- Optional microwave sensor.
- Compatible with Kosnic's KTC27EME-DD emergency module.
- Instant start.
- Negligible UV output.
- Mercury free.

Optional Microwave Sensor

The LED DD lamp is available with a built-in microwave motion sensor. The sensor can be adjusted to control the sensor's ambient light level threshold, detection range and illumination time.

Emergency Module Compatible

The LED DD lamp is compatible with the Kosnic emergency module, which provides power in the event of a cut in the supply and must be wired to the un-switched supply through the un-switched Live terminal. The battery will supply the lamp for over 3 hours at a reduced output.

Specifications – Standard Lamp

| Product Code | KLED12STD/2P-W40 | KLED12STD/4P-W27 | KLED12STD/4P-W40 | KLED12STD/4P-W65 |
|--|--------------------|--------------------|--------------------|--------------------|
| Lamp Cap | GR8 | GR10q | GR10q | GR10q |
| Lamp Shape | DD | DD | DD | DD |
| Nominal Power (W) | 12 | 12 | 12 | 12 |
| Voltage | 220-240Vac 50-60Hz | 220-240Vac 50-60Hz | 220-240Vac 50-60Hz | 220-240Vac 50-60Hz |
| Current (mA) | 98 | 98 | 98 | 98 |
| Nominal Luminous Flux (lm) | 1200 | 1200 | 1200 | 1200 |
| CCT (K) | 4000K Cool White | 2700K Warm White | 4000K Cool White | 6500K Day Light |
| Nominal Lifetime (h) | 30000 | 30000 | 30000 | 30000 |
| Dimmable | No | No | No | No |
| Switching Cycles | 50000 | 50000 | 50000 | 50000 |
| Warm-up time to 60% (S) | Instant full light | Instant full light | Instant full light | Instant full light |
| Length (mm) | 192 | 192 | 192 | 192 |
| Width (mm) | 192 | 192 | 192 | 192 |
| Mercury (mg) | 0 | 0 | 0 | 0 |
| Clean-up instructions | N/A | N/A | N/A | N/A |
| Retrofit | Yes | Yes | Yes | Yes |
| Rated Power (W) | 12.0 | 12.0 | 12.0 | 12.0 |
| Rated Luminous Flux (lm) | 1200 | 1200 | 1200 | 1200 |
| Rated Lifetime (h) | 30000 | 30000 | 30000 | 30000 |
| Power Factor | 0.53 | 0.53 | 0.53 | 0.53 |
| Rated Peak Candelas (cd) | 350 | 350 | 350 | 350 |
| Lumen Maintenance Factor at Nominal Lifetime | 0.75 | 0.75 | 0.75 | 0.75 |
| SDCM of CCT | <6 | <6 | <6 | <6 |
| CRI | 74 | 72 | 74 | 75 |
| Start Time (s) | 0.39 | 0.39 | 0.39 | 0.39 |
| Ambient Temperature (°C) | -20 to 40 | -20 to 40 | -20 to 40 | -20 to 40 |
| Compatible Emergency Module | KTC27EME-DD | KTC27EME-DD | KTC27EME-DD | KTC27EME-DD |
| Emergency Luminous Flux (lm) | 230 | 230 | 230 | 230 |

Energy Label - Standard Lamp

| Manufacturer | Kosnic | Kosnic | Kosnic | Kosnic |
|--------------------------------|------------------|------------------|------------------|------------------|
| Product Code | KLED12STD/2P-W40 | KLED12STD/4P-W27 | KLED12STD/4P-W40 | KLED12STD/4P-W65 |
| Energy Class | A+ | A+ | A+ | A+ |
| Energy Consumption (kWh/1000h) | 12 (12.00)* | 12 (12.00)* | 12 (12.00)* | 12 (12.00)* |

* The kWh/1000h value published on the energy label is required to be rounded up to an integer according to the EU implementing directive on Energy Labelling. The value to 2 decimal places is given for reference.

Product Markings – Standard Lamp

| | | | | |
|-------------------|--------------------|--------------------|--------------------|--------------------|
| Manufacturer | Kosnic | Kosnic | Kosnic | Kosnic |
| Product Code | KLED12STD/2P-W40 | KLED12STD/4P-W27 | KLED12STD/4P-W40 | KLED12STD/4P-W65 |
| Voltage | 220-240Vac 50-60Hz | 220-240Vac 50-60Hz | 220-240Vac 50-60Hz | 220-240Vac 50-60Hz |
| Nominal Power (W) | 12 | 12 | 12 | 12 |
| Current (mA) | 98 | 98 | 98 | 98 |
| CE Mark | Yes | Yes | Yes | Yes |
| WEEE Mark | Yes | Yes | Yes | Yes |
| Batch Code | Yes | Yes | Yes | Yes |

Specifications – Sensor Lamp

| | |
|--|-------------------------|
| Product Code | KLED12LSD/2P-W40 |
| Lamp Cap | GR10q |
| Lamp Shape | DD |
| Nominal Power (W) | 12 |
| Voltage | 220-240Vac 50-60Hz |
| Current (mA) | 98 |
| Nominal Luminous Flux (lm) | 1200 |
| CCT (K) | 4000K Cool White |
| Nominal Lifetime (h) | 30000 |
| Dimmable | No |
| Switching Cycles | 50000 |
| Warm-up time to 60% (S) | Instant full light |
| Length (mm) | 192 |
| Width (mm) | 192 |
| Mercury (mg) | 0 |
| Clean-up instructions | N/A |
| Retrofit | Yes |
| Rated Power (W) | 12.0 |
| Rated Luminous Flux (lm) | 1200 |
| Rated Lifetime (h) | 30000 |
| Power Factor | 0.53 |
| Rated Peak Candelas (cd) | 350 |
| Lumen Maintenance Factor at Nominal Lifetime | 0.75 |
| SDCM of CCT | <6 |
| CRI | 74 |
| Start Time (s) | 0.39 |
| Ambient Temperature (°C) | -20 to 40 |
| Compatible Emergency Module | KTC27EME-DD |
| Emergency Luminous Flux (lm) | 230 |
| Sensor Type | Microwave |
| Detection Range (m) | 1-12 |
| Detection Angle (°) | 360 |
| Operation Time | 8sec–30min |
| Ambient Light Threshold (lux) | 10-2000 |
| Standby Power (W) | 1.2 |
| HF System | 5.8GHz |
| Sensor Output (mW) | <0.2 |

Energy Label - Sensor Lamp

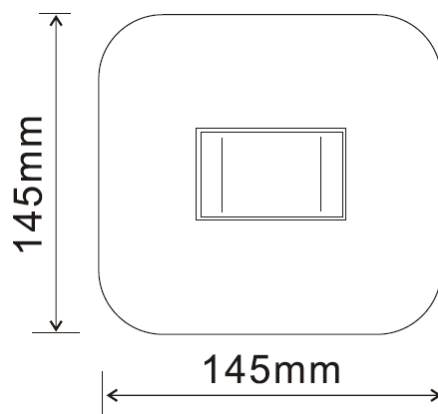
| | |
|---------------------------------------|-------------------------|
| Manufacturer | Kosnic |
| Product Code | KLED12LSD/2P-W40 |
| Energy Class | A+ |
| Energy Consumption (kWh/1000h) | 12 (12.00)* |

* The kWh/1000h value published on the energy label is required to be rounded up to an integer according to the EU implementing directive on Energy Labelling. The value to 2 decimal places is given for reference.

Product Markings – Sensor Lamp

| | |
|-------------------|--------------------|
| Manufacturer | Kosnic |
| Product Code | KLED12LSD/2P-W40 |
| Voltage | 220-240Vac 50-60Hz |
| Nominal Power (W) | 12 |
| Current (mA) | 98 |
| CE Mark | Yes |
| WEEE Mark | Yes |
| Batch Code | Yes |

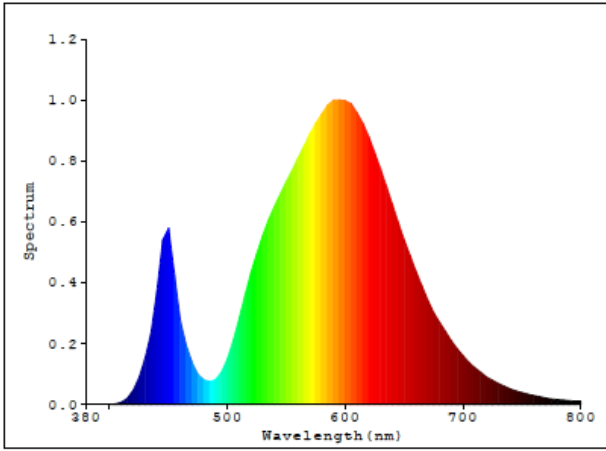
Dimensions



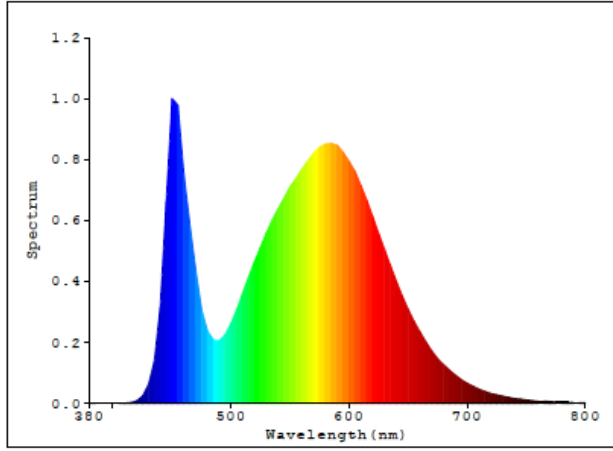
Safety and Maintenance

- Switch off supply before installing or removing lamp. Allow to cool before handling.
- Do not dispose of in household waste.
- Dispose of in appropriate section of local civic amenity site or recycling centre.

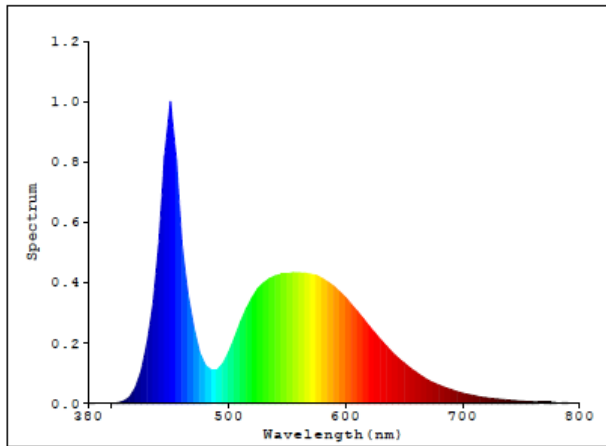
3000K



4000K



6500K



Fitting Conversion

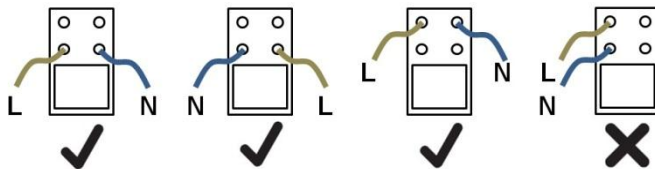
The existing fitting must be switched off and isolated at the mains before commencing electrical work. It is the responsibility of the converter to ensure the fitting continues to meet safety requirements. If in doubt consult a qualified electrician.

Magnetic Ballast (choke):

- Remove the starter and any power factor capacitor.
- Plug the LED DD lamp directly into the socket.

Electronic Ballast (High Frequency) Conversion:

- The electronic ballast is not required so it must be removed or bypassed.
- Wire the Live and Neutral directly from the supply to the lampholder terminals as per the diagram below, adding a 1A fuse between the Live supply and the lampholder.
- The Live and Neutral must be wired to opposite terminals on the lampholder and not be wired to terminals on the same side.



Add an indelible warning label, visible when changing the lamp, showing the substance of:
Warning - not for use with fluorescent lamp, use only Kosnic LED DD lamp.

Optional Emergency Module

An optional emergency module for the 12W and 18W LED DD lamp can be installed within the fitting to provide a back-up supply in the event of a power cut. The emergency module requires a permanent live unswitched supply to maintain the battery charge. In the event of a power cut the battery within the emergency module will supply the LED DD lamp at a reduced voltage through the supplementary socket provided for this purpose. The supplementary socket also connects the emergency module to the green charging indicator on the LED DD lamp.

