

LED Fire Rated Downlight

7.5W Dimmable/Non-Dimmable Fire Rated Downlights with Emergency Option.



Product Overview

The Kosnic LED Fire Rated Downlight with integrated LED light engine achieves high lumen efficiency, long life and is available in dimmable versions. The downlights are also compatible with Kosnic's emergency module which simply plugs in to create a maintained emergency light.

Features

- Save up to 85% energy usage compared to traditional halogen fittings.
- Compatible with Kosnic's KTC10EME-FDL emergency module.
- Class II, IP40
- BS476 Part 21 fire rated to 90 minutes.
- Dimmable options.
- High lumen output.
- Long life of 35,000h.
- Instant start.
- No UV output.
- Mercury free.

Emergency Module Compatible

The fire rated downlights are compatible with the Kosnic emergency module, which provides power in the event of a cut in the supply and must be wired to an un-switched live supply. The battery will supply the lamp for over 3 hours at a reduced output.

Colour Options

White	Add -WH to Product Code
Chrome	Add -CH to Product Code
Brushed Nickel	Add -BN to Product Code

Specifications – Dimmable

Product Code	KFDL7.5DIM/FS30	KFDL7.5DIM/FS65
Nominal Power (W)	7.5	7.5
Voltage	220-240Vac 50-64Hz	220-240Vac 50-64Hz
Current (mA)	61	61
Nominal Useful Luminous Flux (lm)	420	480
Total Luminous Flux (lm)	490	530
CCT (K)	3000K Warm White	6500K Day Light
Nominal Lifetime (h)	35000	35000
Beam Angle (°)	45	45
Dimmable	Yes - See website datasheet	Yes - See website datasheet
Switching Cycles	50000	50000
Warm-up time to 60% Φ (S)	Instant full light	Instant full light
Suitable for accent lighting	Yes	Yes
Length (mm)	115.0	115.0
Diameter (mm)	82.0	82.0
Cut-out (mm)	73	73
Mercury (mg)	0	0
Clean-up instructions	N/A	N/A
Retrofit	No	No
Equivalent Wattage (W)	61	69
Rated Power (W)	7.5	7.5
Rated Useful Luminous Flux (lm)	420	480
Rated Lifetime (h)	35000	35000
Power Factor	0.53	0.53
Rated Peak Candelas (cd)	650	750
Lumen Maintenance Factor at Nominal Lifetime	0.75	0.75
SDCM of CCT	7.00	<6
CRI	80	73
Start Time (s)	0.43	0.43
Ambient Temperature Range (°C)	-20 to 40	-20 to 40
Compatible Emergency Module	KTC10EME-FDL	KTC10EME-FDL
Emergency Luminous Flux (lm)	60	60

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.

Specifications – Non-Dimmable

Product Code	KFDL7.5LED/FS30	KFDL7.5LED/FS65
Nominal Power (W)	7.5	7.5
Voltage	220-240Vac 50-64Hz	220-240Vac 50-64Hz
Current (mA)	61	61
Nominal Useful Luminous Flux (lm)	420	480
Total Luminous Flux (lm)	490	530
CCT (K)	3000K Warm White	6500K Day Light
Nominal Lifetime (h)	35000	35000
Beam Angle (°)	45	45
Dimmable	No	No
Switching Cycles	50000	50000
Warm-up time to 60% Φ (S)	Instant full light	Instant full light
Suitable for accent lighting	Yes	Yes
Length (mm)	115.0	115.0
Diameter (mm)	82.0	82.0
Cut-out (mm)	73	73
Mercury (mg)	0	0
Clean-up instructions	N/A	N/A
Retrofit	No	No
Equivalent Wattage (W)	61	69
Rated Power (W)	7.5	7.5
Rated Useful Luminous Flux (lm)	420	480
Rated Lifetime (h)	35000	35000
Power Factor	0.53	0.53
Rated Peak Candelas (cd)	650	750
Lumen Maintenance Factor at Nominal Lifetime	0.75	0.75
SDCM of CCT	7.00	<6
CRI	80	73
Start Time (s)	0.43	0.43
Ambient Temperature Range (°C)	-20 to 40	-20 to 40
Compatible Emergency Module	KTC10EME-FDL	KTC10EME-FDL
Emergency Luminous Flux (lm)	60	60

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.

Energy Label - Dimmable

Manufacturer	Kosnic	Kosnic
Product Code	KFDL7.5DIM/FS30	KFDL7.5DIM/FS65
Energy Class	A	A+
Energy Consumption (kWh/1000h)	7.50 (8)*	7.50 (8)*

* 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.

Energy Label – Non-Dimmable

Manufacturer	Kosnic	Kosnic
Product Code	KFDL7.5LED/FS30	KFDL7.5LED/FS65
Energy Class	A	A+
Energy Consumption (kWh/1000h)	7.50 (8)*	7.50 (8)*

* 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.

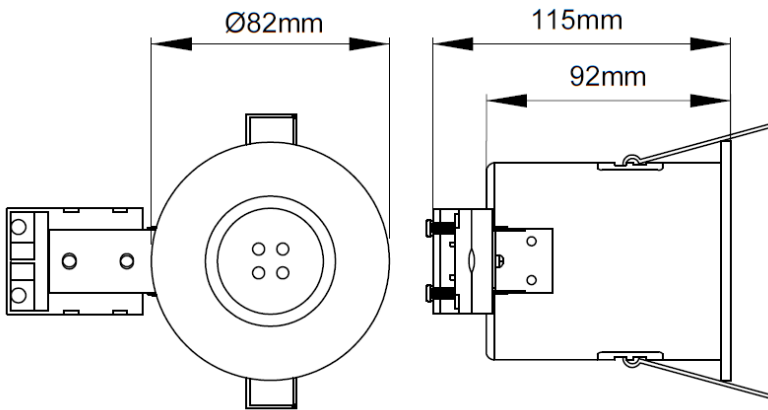
Product Markings - Dimmable

Manufacturer	Kosnic	Kosnic
Product Code	KFDL7.5DIM/FS30	KFDL7.5DIM/FS65
Volts (V)	220-240Vac 50-64Hz	220-240Vac 50-64Hz
Nominal Watts (W)	7.5	7.5
Current (mA)	61	61
Nominal Useful Luminous Flux (lm)	420	480
CCT (K)	3000	6500
Beam Angle (°)	45	45
CE Mark	Yes	Yes
WEEE Mark	Yes	Yes
Batch Code	Yes	Yes

Product Markings – Non-Dimmable

Manufacturer	Kosnic	Kosnic
Product Code	KFDL7.5LED/FS30	KFDL7.5LED/FS65
Volts (V)	220-240Vac 50-64Hz	220-240Vac 50-64Hz
Nominal Watts (W)	7.5	7.5
Current (mA)	61	61
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CCT (K)	3000	6500
Beam Angle (°)	45	45
CE Mark	Yes	Yes
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Batch Code	Yes	Yes

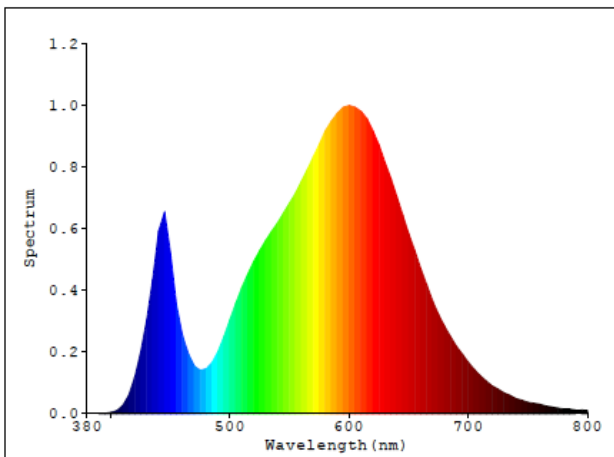
Dimensions



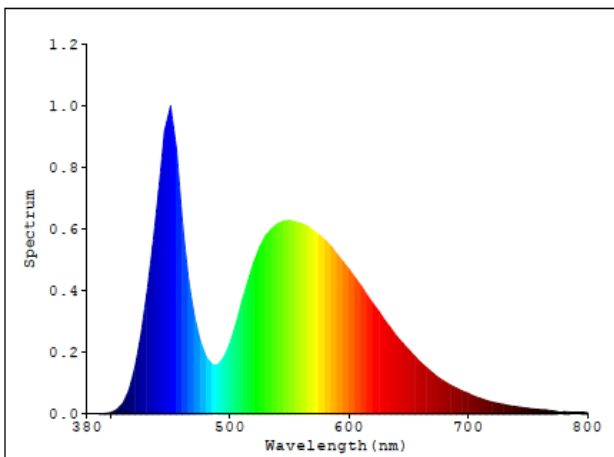
KFDL7.5DIM/KFDL7.5LED

Photometric Information

3000K



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. 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 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 performance before committing to a large project.**

Recommended Dimmer Switches:

Manufacturer	Model	Rating	Notes
VARILIGHT	V.PRO	250/400W	Max 16 lamps. Approx. 80% dimming.
VARILIGHT	ECLIQUE JDQI401S	400W	Max 16 lamps. Approx. 80% dimming.
VARILIGHT	LEDLite Low Load	120W	Max 16 lamps. Approx. 85% dimming.
DANLERS	DQDGD MK	400W	Max 12 lamps. Approx. 80% dimming.
HAMILTON	H-GDM250W	250W	Max 16 lamps. Approx. 85% dimming.
HAMILTON	H-GDTM250 (Touch)	250W	Max 16 lamps. Approx. 85% dimming.
RICHMOND/ZANO	ZGRID500	50W	Max 8 lamps. Approx. 75% dimming.
HAMILTON	L400/2	400W	Max 8 lamps. Approx. 70% dimming.

* If lamps are asynchronous when switched on at lowest level, turn up then back down.