

# LED Reality Lamps



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The Reality LED range has been designed in the UK. The idea was to create an LED that matched a halogen lamp in terms of light source and aesthetics. We achieved this by using a single Cree LED chip and building the reflector around it. The result is a light that is truly warm and gives that arc of light that we are all used to seeing with halogen.

We have used an improved circuit for the LED driver for smooth, flicker free dimming. We have fully tested dimming with Lutron and various dimmer modules.

Mains Voltage  
GU10 50W



400lm, 8lm/W

LED Reality  
GU10 7W



630lm, 90lm/W

## GU10 LED 7W (=75W) 240V - Dimmable

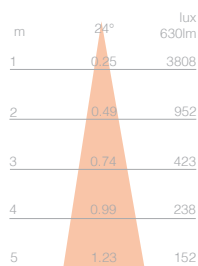


- Replicates a halogen reflector
- LED positioned further back for anti-glare
- Complies with October 2010 Part L regulations
- Fully dimmable with leading edge dimmers
- Equivalent to 75W GU10 Halogen Lamp
- Lifetime of 25,000
- Emergency option available
- Cree XLamp CXA1512 LED

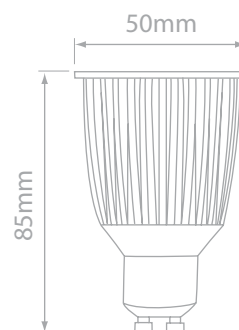
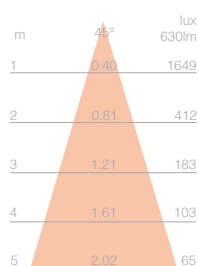


Product Code	Dimming	Wattage	Comparable Halogen GU10	Comparable Halogen MR16	Lamp holder	Beam angle	Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
REAL GU10D INT24	Yes	7W	75W	35W	GU10	24°	25,000	0.95	630	90	80	2700K
REAL GU10D INT45	Yes	7W	75W	35W	GU10	45°	25,000	0.95	630	90	80	2700K

LED GU10 7W 24°



LED GU10 7W 45°



## MR16 LED 7W (=75W) 240V - Dimmable

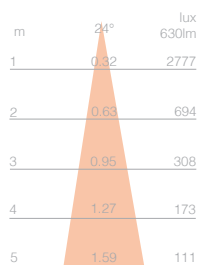


- Replicates a halogen reflector
- LED positioned further back for anti-glare
- Complies with October 2010 Part L regulations
- Fully dimmable with leading edge dimmers
- Equivalent to 75W GU10 Halogen Lamp
- Lifetime of 25,000
- Dimmable driver included
- Emergency option available
- Dali option available
- Cree XLamp CXA1512 LED

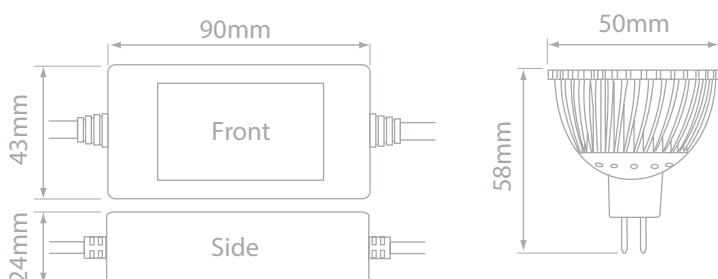
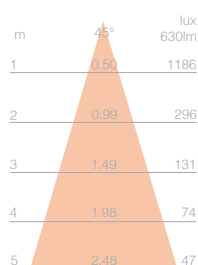


Product Code	Dimming	Wattage	Comparable Halogen GU10	Comparable Halogen MR16	Lamp holder	Beam angle	Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
REAL MR16D INT24	Yes	7W	75W	35W	GU5.3	24°	25,000	0.95	630	90	80	2700K
REAL MR16D INT45	Yes	7W	75W	35W	GU5.3	45°	25,000	0.95	630	90	80	2700K

LED MR16 7W 24°



LED MR16 7W 45°



## MR11 LED 3.5W (=35W) 240V - Dimmable



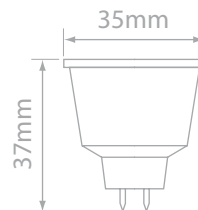
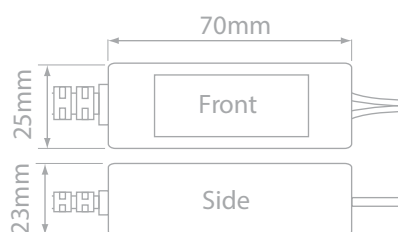
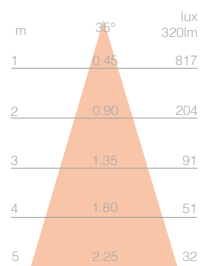
- Replicates a halogen reflector
- LED positioned further back for anti-glare
- Complies with October 2010 Part L regulations
- Fully dimmable with leading edge dimmers
- Equivalent to 35W GU10 Halogen Lamp
- Lifetime of 25,000
- Dimmable driver included
- Emergency option available
- Dali option available
- Cree XLamp CXA1512 LED



Product Code	Dimming	Wattage	Comparable Halogen GU10 MR11	Lamp holder	Beam angle	Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
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REAL MR11D INT35	Yes	3.5W	35W 20W	GU4	35°	25,000	0.85	320	91	80	2700K
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LED MR11 3.5W 35°



## LED MODULE 10W (=75W) 240V - Dimmable



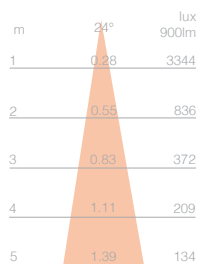
- Replicates a halogen reflector
- LED positioned further back for anti-glare
- Complies with October 2010 Part L regulations
- Equivalent to 75W MR16 Halogen Lamp
- Lifetime of 25,000
- Emergency option available
- 10W dimmable driver included
- Cree XLamp CXA1512 LED



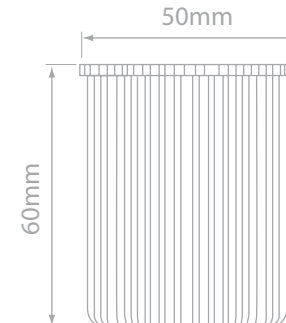
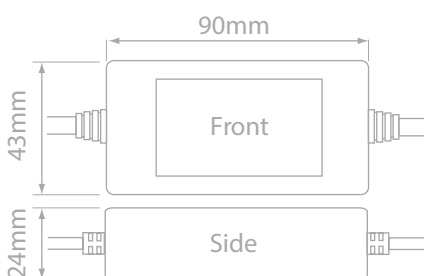
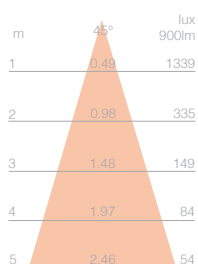
Product Code	Dimming	Wattage	Comparable Halogen GU10 MR16	Beam angle	Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
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REAL MODULE 24	Yes	10W	100W 50W	24°	25,000	0.94	900	90	80	2700K
REAL MODULE 45	Yes	10W	100W 50W	45°	25,000	0.94	900	90	80	2700K

LED MODULE 10W 24°



LED MODULE 10W 45°



# AR111 LED 13W (=75W) 240V - Dimmable

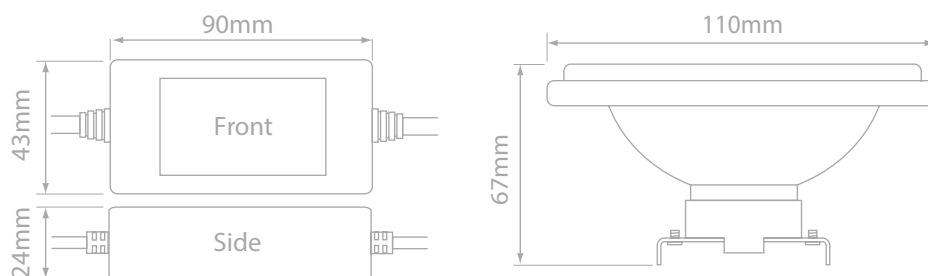
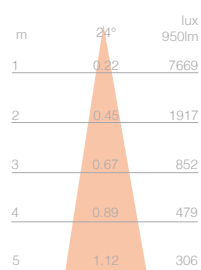


- Replicates a halogen reflector
- LED positioned further back for anti-glare
- Complies with October 2010 Part L regulations
- Equivalent to 75W AR111 Halogen Lamp
- Lifetime of 25,000
- Emergency option available
- Dali option available
- Cree XLamp CXA1512 LED

1 x LED AR111 Reality Lamp lasts as long as 8 x Halogen AR111 Lamps

Product Code	Dimming	Wattage	Comparable Halogen AR111	Lamp holder	Beam angle	Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
REAL AR111D INT	Yes	13W	75W	G53	24°	25,000	0.95	<b>950</b>	<b>73</b>	80	2700K

LED AR111 13W 24°



## Tested Dimmers for LED Reality Lamps

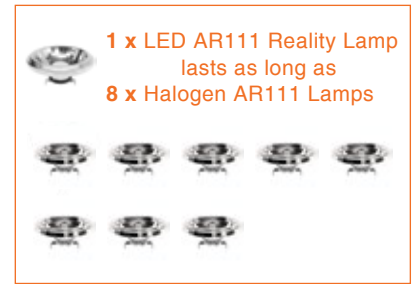
Below is a list of dimmers which we have successfully tested with our LED Reality Lamps. See [www.mrresistor.com](http://www.mrresistor.com) for specific dimming testing results on individual LED Reality lamps.

Manufacturer	Part No.	Description	Wattage
Transformers			
ATON	IDIMP400	2 Way 400W Push Dimmer Module	4-400W
ATON	IDIMP1000	2 Way 1000W Push Dimmer Module	10-1000W
DANLERS	DPD250W	2 Way 250W Push Dimmer Module	40-250W
DANLERS	DPD400W	2 Way 400W Push Dimmer Module	60-400W
FOCUS SB	SB-DSP400X	2 Way 400W Push Dimmer Module	60-400W
LUTRON	RNSU-452B	Rania 1 Gang 450W Master Dimmer	50-450W
LUTRON	LLSI-502B	Lyneo 1 Gang 500W Dimmer	40-500W
LUTRON	QSGRK-4PCE	Grafik Eye QS 4 Circuit 500W Dimmer	40-500W
LUTRON	GRX3104TCE	Grafik Eye 4 Circuit 800W Dimmer	40-800W
MK	MK1535 WHITE	2 Way 450W Push Dimmer	65-450W
RAKO	RDT500-C	Trailing Edge 500W Dimming Pack	1-500W
SUPERSWITCH	WHDSW1 250W	2 Way 250W Push Dimmer	40-250W
WISE CONTROLS	WISE FUSIONREC1	Fusion 1 Gang 450W Dimmer	25-450W
WISE CONTROLS	WISESCENE DIM	Scene/Dimming Receiver 1 Circuit 500W	25-500W
WISE CONTROLS	WISESCENE OCTO	Scene/Dimming Receiver 1 Circuit 250W	25-250W
WISE CONTROLS	WISEDIMREC BOX	Dimming Receiver 4 Channel 700W	60-700W
ZANO	ZGRID500	500W(T)400W(VA)66W(CFL)50W(LED)	40-500W
MK	K4501	230V 50Hz 40W/VA-200W/180VA	40-220W

# AR111 LED 13W (=75W) 12V - Retro-Fittable Switching



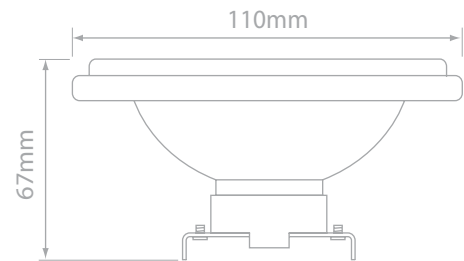
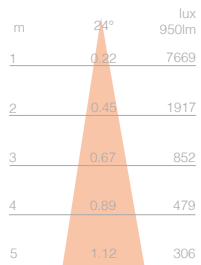
- Works with existing 12V transformer
- Replicates a halogen reflector
- LED positioned further back for anti-glare
- Complies with October 2010 Part L regulations
- Equivalent to 75W AR111 Halogen Lamp
- Lifetime of 25,000
- Emergency option available
- Dali option available
- Cree XLamp CXA1512 LED



Product Code	Dimming	Wattage	Comparable Halogen AR111	Lamp holder	Beam angle	Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
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REAL AR111 INT	No	13W	75W	G53	24°	25,000	0.95	<b>950</b>	<b>73</b>	80	2700K
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LED AR111 13W 24°



Below is a list of transformers which we have successfully tested with our LED AR111 12V lamp.

Manufacturer	Part No.	Description	Wattage
<b>Transformers</b>			
Aurora	AU-SM60TL	Electronic Transformer 12V	60W
Aurora	A2-D60/30	Electronic Transformer 12V	60W
IBL	4105	Electronic Transformer 12V	75W
IBL	ET4632.SP PRE-WI	Electronic Transformer 12V	60W
IBL	ET4642.SP PRE-WI	Electronic Transformer 12V	105W
La Relco	RES60 *MINI*	Electronic Transformer 12V	60W
Mode	MOE2075CRD112	Electronic Transformer 12V	60W
Mode	ET105C LEADS	Electronic Transformer 12V	105W
Rasmi	ALV050C	Toroidal Transformer 12V	50W
TCI	PICO SUPER 60	Electronic Transformer 12V	60W
TCI	PICO WOLF 60	Electronic Transformer 12V	60W
TCI	PICO WOLF 105	Electronic Transformer 12V	105W
Varilgiht UK	YT50L	Electronic Transformer 12V	50W
<b>Fittings</b>			
Et Lumiere	TK73831016	DRIM 3 Circuit Track Black	
Et Lumiere	TK73831021	DRIM 3 Circuit Track White	
Et Lumiere	JFTK3 L111SILVER	HEAT SINK 3 Circuit Track Silver	



# Halogen to LED Comparison Chart

<p><b>HALOGEN</b></p>	 PAR 63 GU10 240V 75W 600lm	 MR11 12V 20W 300lm	 MR16 12V 35W 600lm	 MR16 12V 50W 900lm	 AR111 12V 75W 1400lm
<p><b>LED</b> (approx comparison)</p>	<p>Dimming</p>  REAL GU10 LED 7W 630lm	<p>Dimming</p>  REAL MR11 LED 3.5W 320lm	<p>Dimming</p>  REAL MR16 LED 7W 630lm	<p>Dimming</p>  REAL MODULE LED 10W 900lm	<p>Dimming</p>  REAL AR111 LED 13W 950lm



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