PROREALITY
DIMMABLE
LED LAMPS

*Replicates halogen lamps light source and aesthetics
with a CRI 90+ for Excellent Colour Rendering.*

Pro Reality, bringing colours to life...

The Colour Rendering Index (CRI) is a scale from 0 to 100 percent indicating how accurate a "given" light source is at rendering colour when compared to a "reference" light source. For that reason, LED light bulbs with a high CRI like the Pro Reality lamps, are worthy replacements for incandescent light bulbs.

A high CRI number is like a high grade point average for colour quality. While most LEDs score in the 80s the Pro Reality range have a CRI of 90+, making them our best light yet.

Residential Lighting

The Pro Reality ranges high CRI makes it ideal for lighting residential interiors, with its superior light bringing out all the colours, materials and textures of the home. The perfect colour spectrum of the light also makes the lamps ideal for lighting artwork and ornaments.

CRI : 80

CRI : 90+

Commerical Lighting

The Pro Reality lamps crisp, superior light is perfect for lighting retail displays, food, cuisine and art. Retail lighting requires perfect colour rendering, which these lamps give. The perfect colour spectrum brings out the vividness of the colours and the clean light brings out the contrast. The Pro Reality lamps will showcase products, food or art at its very best creating the best visual experience for the consumer.
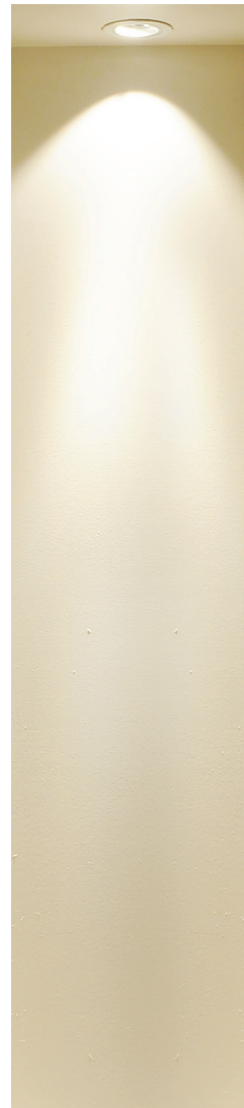
The look of halogen with the benefits of LED...

The Pro Reality range is designed to match 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 crisp, bright 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.

The Pro Reality lamps are our most powerful LED lamps yet, but with the benefit of being energy efficient, all complying to the 2013 Part L regulations. The Lamps high lumen output make them ideal for lighting large spaces and high ceilings.

Pro Reality GU10
CRI:93, 800lm

LED Lamp GU10
CRI:80, 400lm

Heat absorbing paint

Anti Glare Reflector
LED positioned further back

Single Cree chip LED for crisp precise light

CREE
LEDs

Contents

GU10 LED 9W (=100W) 240V - **Dimmable**

- Replicates halogen reflector
- Colour Rendering Index of 93
- LED positioned further back for anti glare
- Complies with 2013 Part L regulations
- Fully dimmable with leading & trailing edge dimmers
- Equivalent to 100W Halogen
- Estimated lifetime of 25,000 hours
- LED Chip 10° : CREE MHD-G 7070 chip
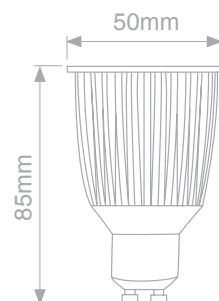- LED Chip 45° : CREE CXA1820 chip

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Lamp holder	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO REAL GU1010D	Yes	9W	100W	GU10	10°	25,000	0.90	**800**	**88**	93	3000K
PRO REAL GU1045D	Yes	9W	100W	GU10	45°	25,000	0.90	**800**	**88**	93	3000K

LED GU10 9W 10°

m	10°	lux 800lm
1	0.19	9157
2	0.38	2289
3	0.57	1017
4	0.76	572
5	0.95	366

LED GU10 9W 45°

m	45°	lux 800lm
1	0.45	2663
2	0.90	665
3	1.36	295
4	1.81	166
5	2.26	106

50mm

85mm

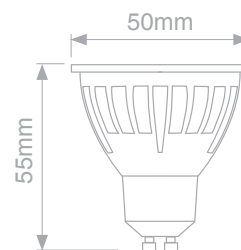# GU10 LED RETRO 5W (=50W) 240V - **Dimmable**

- Replicates halogen reflector
- Colour Rendering Index of 93
- LED positioned further back for anti glare
- Compact size
- Complies with 2013 Part L regulations
- Fully dimmable with leading & trailing edge dimmers
- Equivalent to 50W Halogen
- Estimated lifetime of 25,000 hours
- LED Chip : CREE CXB1512 chip

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Lamp holder	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO RETRO5 W45D	Yes	5W	50W	GU10	45°	25,000	0.90	**470**	**94**	93	3000K
PRO RETRO5 I45D	Yes	5W	50W	GU10	45°	25,000	0.90	**470**	**94**	93	2700K

LED GU10 RETRO 5W 45°

m	45°	
1	0.83	978
2	1.66	237
3	2.49	105
4	3.31	58
5	4.14	37

50mm

55mm

MR16 LED 9W (=100W) 240V - **Dimmable**

- Replicates halogen reflector
- Colour Rendering Index of 93
- LED positioned further back for anti glare
- Complies with 2013 Part L regulations
- Fully dimmable with leading & trailing edge dimmers
- Equivalent to 100W Halogen
- Estimated lifetime of 25,000 hours
- LED Chip 10° : CREE MHD-G 7070 chip
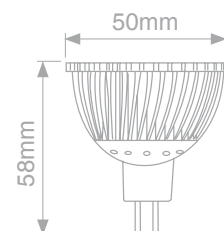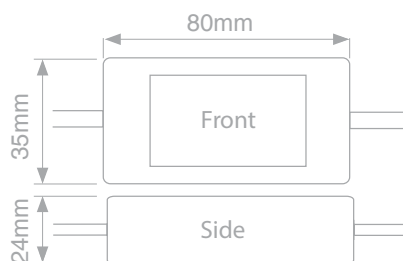- LED Chip 45° : CREE CXA1820 chip

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Lamp holder	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO REAL MR1610D	Yes	9W	100W	MR16	10°	25,000	0.90	**800**	**88**	93	3000K
PRO REAL MR1645D	Yes	9W	100W	MR16	45°	25,000	0.90	**800**	**88**	93	3000K

LED MR16 9W 10°

m	10°	lux 800lm
1	0.20	8166
2	0.41	2041
3	0.61	907
4	0.82	510
5	1.02	326

LED MR16 9W 45°

m	45°	lux 800lm
1	0.52	2345
2	1.03	586
3	1.55	260
4	2.07	146
5	2.58	93

80mm — Front — 35mm — Side — 24mm

50mm — 58mm

LED MODULE 15W (=150W) 240V - **Dimmable**

- Replicates halogen reflector
- Colour Rendering Index of 93
- LED positioned further back for anti glare
- Complies with 2013 Part L regulations
- Fully dimmable with leading & trailing edge dimmers
- Equivalent to 150W Halogen
- Estimated lifetime of 25,000 hours
- Fits 50mm Downlight
- LED Chip 10° : CREE MHD-G 7070 chip
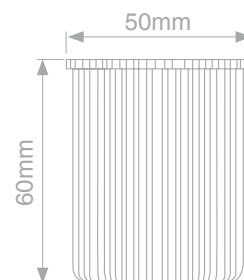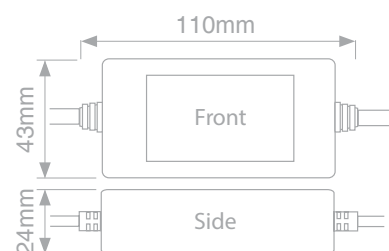- LED Chip 45° : CREE CXA1820 chip

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO REAL50MO/10D	Yes	15W	150W	10°	25,000	0.90	**1400**	**93**	93	3000K
PRO REAL50MO/45D	Yes	15W	150W	45°	25,000	0.90	**1400**	**93**	93	3000K

LED MODULE 15W 10°

m	10°	lux 1400lm
1	0.28	4468
2	0.55	1240
3	0.83	562
4	1.11	364
5	1.39	206

LED MODULE 15W 45°

m	45°	lux 1400lm
1	0.49	1785
2	0.98	496
3	1.48	175
4	1.97	105
5	2.46	69

110mm — Front — 43mm — Side — 24mm

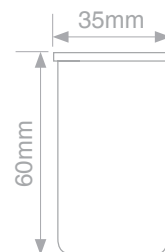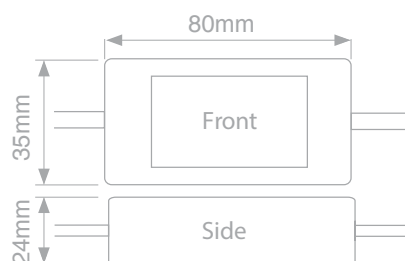50mm — 60mm

MODULE 35 LED 8W (=75W) 240V - **Dimmable**

- Replicates halogen reflector
- Colour Rendering Index of 93
- LED positioned further back for anti glare
- Complies with 2013 Part L regulations
- Fully dimmable with leading & trailing edge dimmers
- Equivalent to 75W Halogen
- Fits 35mm Downlight
- Estimated lifetime of 25,000 hours
- LED Chip : CREE CXA1512 chip

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO REAL35MO/35D	Yes	8W	75W	35°	25,000	0.90	**700**	**87**	93	3000K

LED MR11 8W 35°

m	35°	lux 700lm
1	0.46	2435
2	0.92	597
3	1.37	280
4	1.83	158
5	2.29	100

80mm
35mm
Front
24mm
Side

35mm
60mm

PAR30 LED 12W (=100W) 240V - **Dimmable**

- LED positioned further back for anti glare
- Colour Rendering Index of 93
- Complies with 2013 Part L regulations
- Fully dimmable with leading edge dimmers
- Equivalent to 100W Halogen
- Estimated lifetime of 25,000 hours
- Fits ES / E27 lampholder
- LED Chip 15° : CREE CXA1512
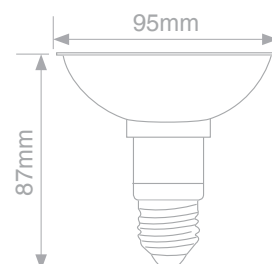- LED Chip 35° : NICHIA 757

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Lamp holder	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO REALPAR3015D	Yes	12W	100W	GU10	15°	25,000	0.90	**850**	**71**	93	3000K
PRO REALPAR3035D	Yes	12W	100W	GU10	35°	25,000	0.90	**850**	**71**	93	3000K

LED PAR30 12W 15°

m	15°	lux 850lm
1	0.18	8410
2	0.35	2102
3	0.53	934
4	0.71	525
5	0.89	336

LED PAR30 12W 35°

m	35°	lux 850lm
1	0.36	4251
2	0.71	1062
3	1.07	472
4	1.42	265
5	1.78	170

95mm
87mm

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

- Replicates halogen reflector
- Colour Rendering Index of 92
- LED positioned further back for anti glare
- Complies with 2013 Part L regulations
- Fully dimmable with leading & trailing edge dimmers
- Equivalent to 75W Halogen
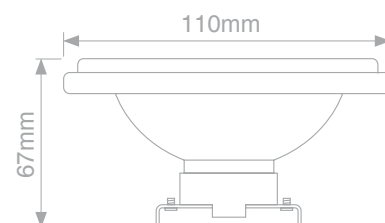- Estimated lifetime of 25,000 hours
- LED Chip : CREE MHD-G 7070 chip

CREE LEDs

Product Code	Dimming	Wattage	Comparable Halogen	Lamp holder	Beam angle	Estimated Lifetime (hours)	Power Factor	Lumens	Lumens per Watt	CRI	Colour Temp
PRO REAL AR11110D	Yes	13W	75W	AR111	10°	25,000	0.90	**1150**	**88**	92	3000K
PRO REAL AR11124D	Yes	13W	75W	AR111	24°	25,000	0.90	**1150**	**88**	92	3000K

LED AR111 13W 10°

m	10°	lux 1150lm
1	0.18	14509
2	0.36	3627
3	0.53	1612
4	0.71	580
5	0.89	403

LED AR111 13W 24°

m	24°	lux 1150lm
1	0.22	7669
2	0.45	1917
3	0.67	852
4	0.89	479
5	1.12	306

110mm

67mm

Below is a list of dimmers which we have successfully tested with our LED Reality Lamps.
See **www.mr-resistor.co.uk** for specific dimming testing results on individual LED Pro Reality lamps.

Manufacturer	Part No.	Description	Wattage
Transformers			
ATON	IDIMP400	2 Way 400W Push Dimmer Module	40-400W
ATON	IDIMP1000	2 Way 1000W Push Dimmer Module	60-1000W
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	RMT500-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 DIMLED	Scene/Dimming Receiver 1 Circuit 250W	25-250W
WISE CONTROLS	WISESCENE OCTO	Scene/Dimming Receiver 1 Circuit 250W	25-250W
WISE CONTROLS	WISESCENE BOX	Dimming Receiver 4 Channel 500W	25-500W
ZANO	ZGRID500	500W(T)400W(VA)66W(CFL)50W(LED)	40-500W
MK	K4501	230V 50Hz 40W/VA-200W/180VA	40-220W

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Pro Reality Retro GU10 LED 5W 470lm	Equivalent Halogen →	Halogen GU10 1 x 50W 400lm		
Pro Reality GU10 LED 9W 800lm	Equivalent Halogen →	Halogen GU10 2 x 50W 3 x 400lm		
Pro Reality MODULE 50 LED 15W 1400lm	Equivalent Halogen →	Halogen GU10 3 x 50W 3 x 400lm		
Pro Reality MODULE 35 LED 8W 700lm	Equivalent Halogen →	Halogen MR11 1 x 35W 600lm		
Pro Reality MR16 LED 9W 800lm	Equivalent Halogen →	Halogen MR16 1 x 50W 900lm		
Pro Reality AR111 LED 13W 1150lm	Equivalent Halogen →	Halogen AR111 1 x 75W 1400lm		
Pro Reality PAR30 LED 12W 850lm	Equivalent Halogen →	Halogen PAR30 1 x 100W 900lm		

available at