

LOW VOLTAGE OUTDOOR LIGHTING

Without a doubt, LED optics have definitely improved recently. New, more powerful LEDs are now bright enough to light large trees and buildings, but unlike traditional lights they do not suffer from being switched on and off. This gives LEDs a huge advantage for anything that requires frequent switching such as security lighting. With the touch of a button or app based control they can be switched or dimmed. Colour changing LEDs can be used to change the mood and even switch between warm and cool white.

LED's offer an 80% reduction in energy cost and last much longer than traditional Halogens lamps.

PART-CODE	BEAM ANGLE	VOLTAGE	POWER (W)	LIGHT OUTPUT (LUMENS)	HALOGEN EQUIVALENT	TYPICAL PRODUCT APPLICATION	PRODUCT IMAGE
CAPLED2WWN	360°	12v G4	2	200	15w	surface mount Steplights, Microflood and Spreadlights	
CAPLED3WWN	360°	12v G4	3	300	20w		
CAPLED4WWN	360°	12v G4	4	400	30w		
MR11COB220L	25°	12V MR11	3	250	20w	Micro spike spots & micro wall spots	
MR16-5WLED	36°	12v MR16	5	450	40w	for uplighting shrubs, smaller trees and focal points	
MR16C200LWW	110°	12v MR16	2.5	200	20w	Provides a wide soft beam	
MR16C500L38	38°	12v MR16	7	500	50w	Spike spots, perfect for uplighting small trees	
MR16C6.5WW36	36°	12v MR16	6.5	480	50w	Spike spots, perfect for uplighting small trees	
MR16COB260L	30°	12v MR16	3	260	26w	Perfect for smoothie eyelids to minimise glare	
MR16COB260L60	60°	12v MR16	3	260	26w	Spike spots, for use on shrubs and bushes	
MR16COB480LD	60°	12v MR16	6	480	50w	The wide beam and bright light is good for lighting planting beds	
MR16COB630LD15	15°	12v MR16	7	630	60w	Bright narrow beam used for lighting focal points from a distance	
MR16COB630LD30	30°	12v MR16	7	630	60w	Use on big shrubs, dark foliage and small trees	
MR16COB630LD60	60°	12v MR16	7	630	60w	Use on big shrubs, dark foliage and small trees	
MR16LED3WWN	36°	12v MR16	3.3	240	20w	Good for smoothie Eyelids	
MR16LED5WW36	36°	12v MR16	5	330	35w	Good for use in down lights	
MR16LED5WW60	60°	12v MR16	5	330	35w	For downlights but with a slightly wider beam	



MR16COB260L60



MR11COB220L



GU10COB60D




CAPLED2WWN



12v Lighting

Some of the main advantages of 12v Lighting are; Safety – 12 volts is inherently safe for children and pets, a bigger range of good quality, smaller fittings to choose from. Easier installation of cables in borders and planting – flexible cables to spike spotlights can be several times longer than to 240 volt garden lights and you can move them around more easily. Some 12 volt lamps are twice as efficient as their 240 volt equivalents. Low voltage transformers and power supplies absorb transients such as those caused when a lamp blows and are, to a degree, less temperamental than mains circuits. A little bit of dampness might not affect a 12 volt circuit but it could render a 240 volt circuit unusable.

Cheaper running costs have been well documented, but good quality LED outdoor light fixtures are not only efficient, but now much more affordable. Some LEDs don't cost much more than the halogen lamps they replace. Also in a garden the lower power consumption is a big advantage because it allows longer cable runs with less volt drop. Fewer transformers are needed for low voltage lighting circuits.

PART-CODE	CCT	BEAM ANGLE	VOLTAGE	POWER	LIGHT OUTPUT (LUMENS)	PRODUCT PHOTO
RGBCCTMR164	Yes	25°	12v MR16	4w	250-280	
RGBCCTGU104	Yes	25°	240v GU10	4w	280	
RGBGU105	No	25°	240v GU10	5w	440-490	

Our RGB LED's are high quality with 16 million colours to choose from, as well as fully adjustable brightness control, colour saturation plus the 'CCT' range has the ability to seamlessly change the colour temperature of the white from Warm White to Cool White all from a simple to use remote control or smartphone App. Colour is perfect to add greens to liven up foliage, blues to enrich water features and reds to add fire and drama to any garden setting.

Mains voltage systems

Are well understood by electricians, as they are usually familiar with 240 volt wall and ceiling lights and exterior lanterns. They may be unfamiliar with, and therefore shy of, low voltage installations in the garden and will try to put you off. The main advantages of 240 volt installations are:

No need to use transformers

Easier installation of wall spotlights where hiding transformers can be difficult.





You don't need to pay such close attention to voltage drop in 240 volt cables as you do at 12 volt

Uplighting of large trees often requires use of energy efficient metal halide lights which all run at 240 volts

One of the main disadvantages is that nearly all the 240 volt cables in the garden must be armoured and/or have some other suitable protection against accidental damage. Only the last 2 metres to the light can be a flexible cable. This results in more ugly junction boxes and less flexibility. Another big disadvantage is that 240 volt lamps blowing will often trip out a circuit breaker, whereas this rarely happens with 12 volt lamps as the current surge is absorbed by the transformer.



RGBCCTGU10

PART-CODE	BEAM ANGLE	VOLTAGE	POWER (W)	LIGHT OUTPUT (LUMENS)	HALOGEN EQUIVALENT	TYPICAL PRODUCT APPLICATION	PRODUCT IMAGE
GU10COB260L60	60°	240v GU10	3	260	26w	Good for Smoothie Eyelids	
GU10COB30D	30°	240v GU10	6	550	55w	For use on small trees and dark foliage	
GU10COB60D	60°	240v GU10	6	550	55w	For use on small trees and dark foliage	
GU10LED3.6WW	36°	240v GU10	3.6	250	20w	Use in wall lights or for small bushes	
GU10LED3CWWN	120°	240v GU10	3	250	20w	Wide beam for a wall light on a terrace or seating area	
GU10LED5WWGL	36°	240v GU10	5	360	35w	For use on small trees and dark foliage	
GU10LED7W	38°	240v GU10	7	380	35w	CRI rating of 95; excellent for making colours more vibrant.	

Many halogen systems can be retrofitted with good quality LED lamps – offering dimmable, warm whites producing nice soft lighting, specific beam angles or even colour changing

TREE LIGHTING

UPLIGHTING OF TREES ADDS DRAMA AND VERTICAL EMPHASIS IN A GARDEN LIGHTING SCHEME. SMALLER TREES CAN BE EFFECTIVELY LIT WITH LOW VOLTAGE OUTDOOR SPOTLIGHTS AND RECESSED LIGHTS. IF YOU ARE UPLIGHTING A SLENDER TREE THE COVERAGE OF A 60° BEAM WILL BE WASTED IN THE NIGHT SKY; A NARROWER BEAM WILL "FIT" THE SHAPE OF THE TREE MORE CLOSELY. IF A 60° (WIDE FLOOD BEAM) LAMP IN A GARDEN UPLIGHT WILL NOT PROVIDE BOTH HEIGHT AND BREADTH OF COVERAGE, TRY USING TWO LIGHTS WITH OVERLAPPING NARROWER 36° DEGREE BEAMS TO GIVE THE REQUIRED COVERAGE.