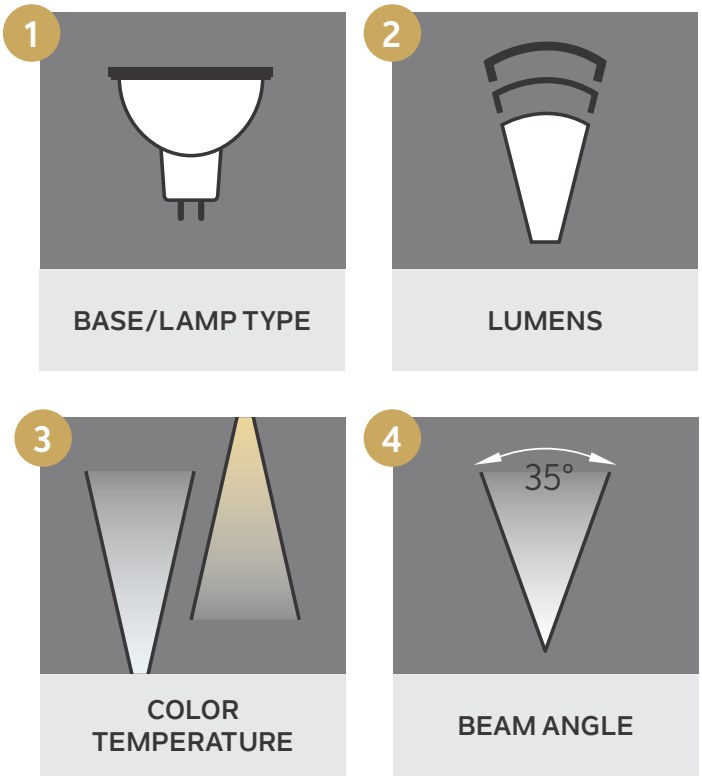
Key Components When Choosing LED Lamps

We know that each landscape project is unique – an application may look better with a warmer color temperature versus a cooler one, or an area may need a tighter beam spread while others might need a larger one. To get the perfect design, you need to make sure you have the right fixture and the correct LED bulb before you get started. That is why it is important to consider the socket base, lamp type, beam angle, lumen level, and color temperature when selecting LED lamps for your project.



Beam Angle and Color Temperature Options

CHOOSE THE RIGHT BEAM ANGLE

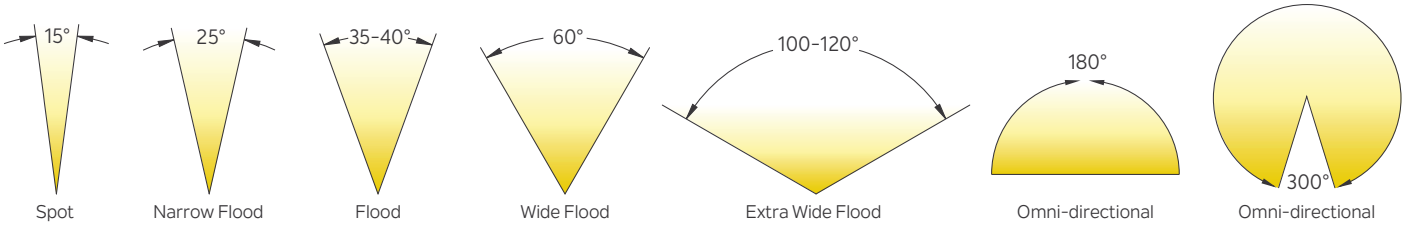
- Use a 10-15° spot to light the trunk of a tree or highlight a column.
- One 35° flood light works well for a small deciduous tree or create a cross lighting effect using two 35° floods for a medium-sized tree.
- For wide tree canopies a 60° works best. Cross lighting can be achieved using two 60° floods on each opposing side of the tree.
- 180°-300° Omni-directional lamps are suitable for hanging lights, path & spread, deck, and wall wash fixtures - anywhere indirect light spread is desired.

WARM WHITE COLOR - 2700K

- Surroundings with warmer colors, like brown and cedar
- Natural-colored walls or stonework
- Foliage that is red, orange or yellow (ex: highlighting oak trees)

PURE WHITE COLOR - 3000K

- Surroundings with dark materials, like deep slate, black or gray
- Foliage that is blue or purple (ex: highlighting blue spruce trees)



Contractor Series LED Lamps

Our Contractor Series provides top LED lamp lighting styles and color temps at a professional performance value. These include:

- Popular LED lamp styles in 2700K and 3000K
- Compatible with all Kichler drop-in fixtures
- Consistent results: 9-15V operating range with no loss in light output
- 7-step binning for close color consistency
- CRI of 80+

Offering a 3-year warranty, the Contractor Series LED Lamps provide the flexibility of selecting from a simplified portfolio while still meeting your clients' landscaping needs and budget.

Professional Series LED Lamps

Our Professional Series is designed to last and offers the quality, variety, and design options you are looking for in a LED lamp. These include:

- Consistent results: 9-15V operating range with no loss in light output
- Custom TIR acrylic optics: superior control and light uniformity
- 4-step binning gives the most consistent color output from lamp to lamp
- High lumens per watt & total lumen output
- Fully encapsulated: protects internal components from the outdoor elements
- CRI of 85+

With a 6-year warranty and our widest selection, these lamps are designed to meet the unique landscape needs of your clients with top performance.

Contractor Series

LAMP	BASE/ LAMP TYPE	WATTAGE	KELVIN/LUMENS (lm for Bare Lamps)	ORDERING INFO		
				35° Flood	60° Wide Flood	100° Extra Wide Flood
	**MR16** Damp Location (D)	4W, 5.7VA Compares to 20-35W Halogen	2700K - 330 lm	**18210**	**18212**	**18214**
			3000K - 330 lm	**18211**	**18213**	**18215**
	**MR16** Damp Location (D)	7W, 10VA Compares to 50W Halogen	2700K - 550 lm	**18216**	**18218**	**18220**
			3000K - 550 lm	**18217**	**18219**	**18221**

OMNI-DIRECTIONAL LAMPS

LAMP	BASE/ LAMP TYPE	WATTAGE	KELVIN/LUMENS (lm for Bare Lamps)	ORDERING INFO
				Omni-Directional Beam
	**T3/G4 Bi-Pin*** Wet Location (W)	1.5W, 2.4VA Compares to 20W Halogen	2700K - 180 lm	**18222**
			3000K - 180 lm	**18223**
	**T5 Wedge*** Wet Location (W)	1.5W, 2.4VA Compares to 20W Halogen	2700K - 180 lm	**18224**
			3000K - 180 lm	**18225**

* Ideal for path, deck/step, wall wash fixtures and more.

NOTES

- Bulbs not included unless otherwise noted.
- Wattages stated are the maximum allowed; however, you may use lower wattage lamps to suit your lighting needs. Some recommended lamps are not available in the maximum allowable wattage.
- All electrical products are rated as 120-volt, AC unless otherwise noted.
- All electrical products are certified and listed to UL/CSA standards for use in U.S.A. and Canada except where noted.

- All chain drop products equipped with at least 72" of chain unless otherwise noted.
- All products featured in the outdoor section are certified and listed to UL/CSA standards for wet location except where noted.
- On some products, in order to accommodate higher-than-normal ceiling height, extra lead wire is supplied and specified. With additional sections of chain or stems (not included), this allows an added measure of design flexibility.
- Finishes for fixtures installed outdoors are subject to change due to prolonged exposure to sunlight, airborne pollutants, and other forms of weathering.
- In outdoor settings, the optional handheld ceiling fan controls are recommended and should be stored in an area protected from the elements. Wall-mounted controls that come standard with many fans are not damp or wet-rated.
- To serve you better, Kichler Lighting reserves the right to make improvements to the products in this catalog. Therefore, some products may change during the life of the catalog and the product information contained in this catalog may also have changed.

Kichler Lighting is a member of the American Lighting Association (ALA), a trade association representing the residential lighting and ceiling fan industries in the United States and Canada. Its membership includes leading lighting and fan manufacturers, showrooms (retailers), manufacturers representatives and designers. ALA members are dedicated to providing the public with the proper application of quality residential lighting.

For warranty information visit Kichler.com/Warranty

CONSUMER NOTICE

Federal Legislation to phase out 100 watt Incandescent Bulbs started January 2012

The federal government enacted the Energy Independence and Security Act of 2007 in December 2007, requiring all general-purpose light bulbs that produce 310-2600 lumens of light be 30% more energy efficient (similar to current halogen lamps) than current incandescent bulbs by 2014. The efficiency standards started with 100 watt bulbs in January 2012 and will end with 40 watt bulbs in January 2014.

Light bulbs outside of this range are exempt from the restrictions (historically, less than 40 watts or more than 150 watts). Also exempt are several classes of specialty lights, including appliance lamps, rough service bulbs, 3-way, colored lamps and plant lights.

By 2020, a second tier of restrictions will become effective; which requires all general-purpose bulbs to produce at least 45 lumens per watt (similar to current CFLs). Exempt from the Act are reflector flood, 3-way, candelabra, colored and other specialty bulbs.

Many governments worldwide have passed measures to prohibit the sale of incandescent light bulbs for general lighting. The aim is to encourage use of more energy-efficient lighting alternatives, such as LED lamps.

References: **www.energy.senate.gov**

We go to great lengths to assure the metal and glass finishes shown in the catalog match the actual products, but printing variations and variations in chemical finishes and the nature of hand-applied finishing will cause some differences between the printed images and actual product, and from one product to another.

We use only non-ferrous materials on the exterior parts of our outdoor lantern products, and use the best available weather-resistant finishes. However, due to some extreme environmental conditions such as acid rain, salt air and ultraviolet exposure, we cannot guarantee our exterior finishes, with the exception of our LifeBrite® lanterns.

Due to environmental conditions such as soil acidity, concrete alkalinity and other corrosive soil and air conditions, we cannot guarantee our direct burial posts.