

LED Optic Selection

Selecting the correct optic is important, since there are many unique applications. King Luminaire has numerous LED optics available to suit the numerous requirements on decorative lighting projects throughout North America. Below is a quick summary of our LED optical systems, which can be used as a guide to help determine the best optic for a specific application.

For more detailed information on a specific optic, please refer to their respective optic sheet.

Post Top and Pendant Optical Systems



The P4 is the 4th generation of King Luminaire's Flat Array optic. The P4 utilizes a '4 refractive optical design' to achieve impressive light distribution. It has superior fixture spacing with a uniform pattern and is available in Type II, III, IV & V IESNA distribution patterns. The P4 provides industry leading performance!

Post Top Optical Systems



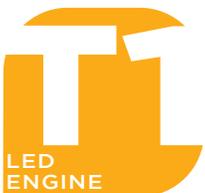
The B3 Baffled Array is the third generation of King Luminaire's signature Baffled Array. It was designed to minimize uplight and control glare; producing 5% uplight and very little glare. The B3 comes in Type IV & V IESNA distribution patterns and has optimal spacing at 19ft+ mounting heights. The B3 gets significantly more roadway performance and spacing over the B2.



The B2 Baffled Array was designed to minimize uplight and control glare. It produces as little as 5% uplight and has very little glare, as the diodes are hidden under the metalized baffles. The B2 comes in Type III & V IESNA distribution patterns and has optimal spacing at 19ft+ mounting heights.



The R1 is the first generation of the Refractive Array. Designed to provide optimum spacing at mounting heights 12ft+, it gets great performance at lower mounting heights. It achieves great light quality and is available in Type III & Type V IESNA distribution patterns.



The T1 is the first generation of the Tower optic. Designed with Chip On Board (COB) emitters to simulate a pointed light source, the T1 is used in conjunction with precision external refractive optics. It is a very highly efficient system with up to 117 lumens per watt and is available in Type IV & Type V IESNA distribution patterns.

Applications

There are many different applications that require a variety of optical solutions to optimize fixture performance. In order to help make that determination, King Luminaire has developed an application based system, using 8 typical scenarios which are defined below. Based on these typical scenarios, King Luminaire has developed a Fixture Spacing Table displayed on specific Product Spec Sheets, that will make it easy to select the best performing optic and fixture for your specific application.

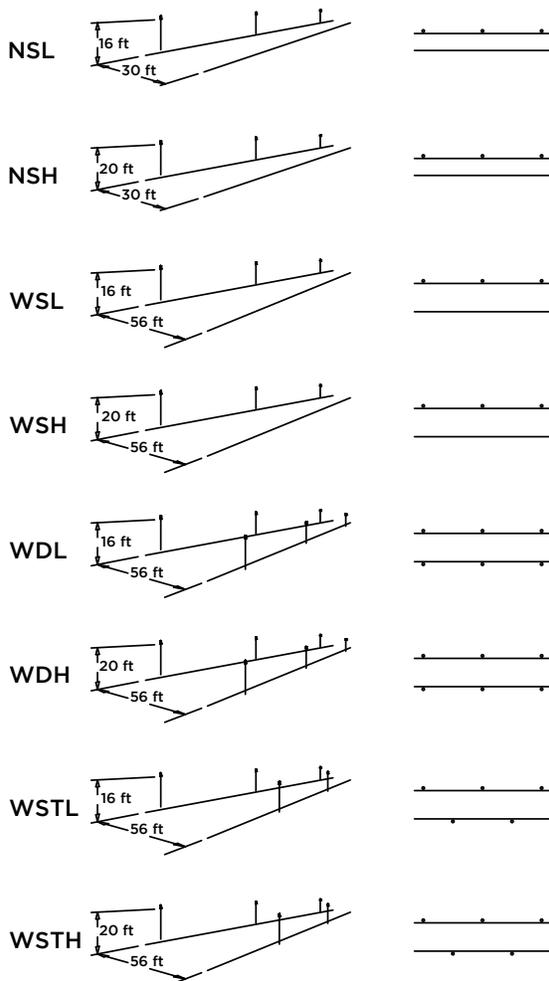
- Narrow:** 30' Wide
- Wide:** 56' Wide
- Low:** Pendant = 20' Post Top: 16'
- High:** Pendant = 28' Post Top: 20'
- Single:** Fixtures on one side
- Double:** Fixtures on both sides, opposite
- Staggered:** Fixtures mounted both sides, staggered

Footcandle Average: 0.7 fc
Uniformity: 6:1

-  **NSL** Narrow-Single-Low
-  **WDL** Wide-Double-Low
-  **NSH** Narrow-Single-High
-  **WDH** Wide-Double-High
-  **WSL** Wide-Single-Low
-  **WSTL** Wide-Staggered-Low
-  **WSH** Wide-Single-High
-  **WSTH** Wide-Staggered-High

Application Diagrams

POST TOP



PENDANT

