


LIGHT TOWER **FACT SHEET**

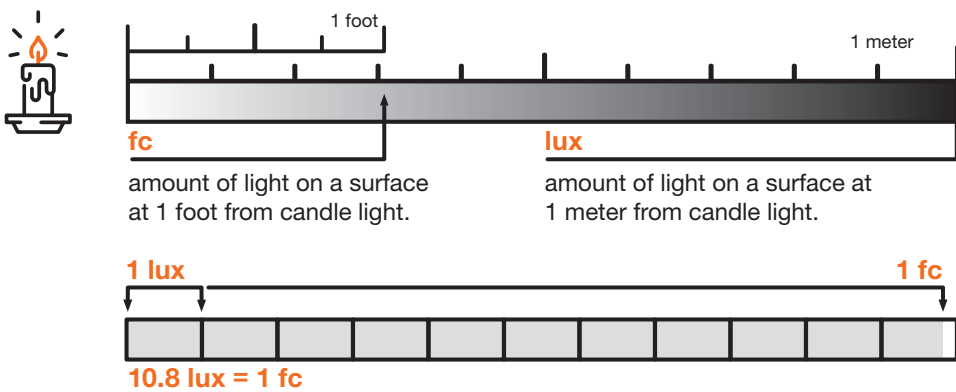
With the increasing popularity of LED light towers, in the not too distant future, metal halide light towers will be a thing of the past. However, LED technology is very different, and the old way of specifying a light tower just doesn't apply. Here's what you need to know when choosing a light tower in today's market.

UNDERSTANDING LIGHT MEASUREMENT



LUMEN
Measures total light being emitted regardless of direction.


LUX and FOOT CANDLE (fc)
Two measurement values of total light being emitted in or on a specific area.





RECOMMENDED ILLUMINANCE

Use the chart below as a guide for the amount of light emission recommended with the following examples:





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Illuminance (in foot-candles)		
00 - 05 fc	Rail Yards, Parking Lots, Airports, Haul Roads	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">✗</div> <div> <p>MYTH A light tower will not cover 5 to 7 acres.</p> </div> </div>
05 - 10 fc	Quarries, Open Mining, Industrial Yards	
10 - 15 fc	General Construction, Rec Areas	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">✓</div> <div> <p>RESEARCH FIRST Know the requirement when lighting your job site or event.</p> </div> </div>
15 - 20 fc	Marine Areas / Piers	
20 - 30 fc	Loading / Unloading Areas	
30 - 40 fc	Explosives Handling	
40 - 50 fc	Sporting Events	

LED VS METAL HALIDE

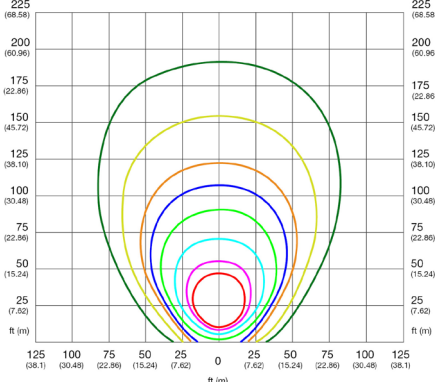
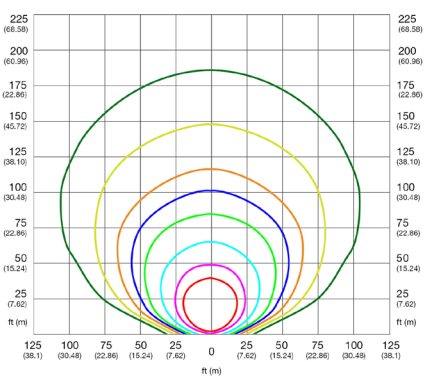
LUMENS

The numbers below represent “fixture lumens”, which is a more accurate, exact measure of actual usable light. Most light tower manufacturers only list “bare bulb lumens” for metal halide light towers, which is a rating of the maximum available lumens from a brand-new metal halide bulb. But, when the bulb is placed in a fixture, you can lose up to 50% of bare bulb lumen output right away.

 320W GENERAC® LED	 1100W Metal Halide
43,050 lumens per fixture (x4 fixtures)	70,356 lumens per fixture (x4 fixtures)
188,000 total lumens per tower	281,424 total lumens per tower with new bulbs

COVERAGE

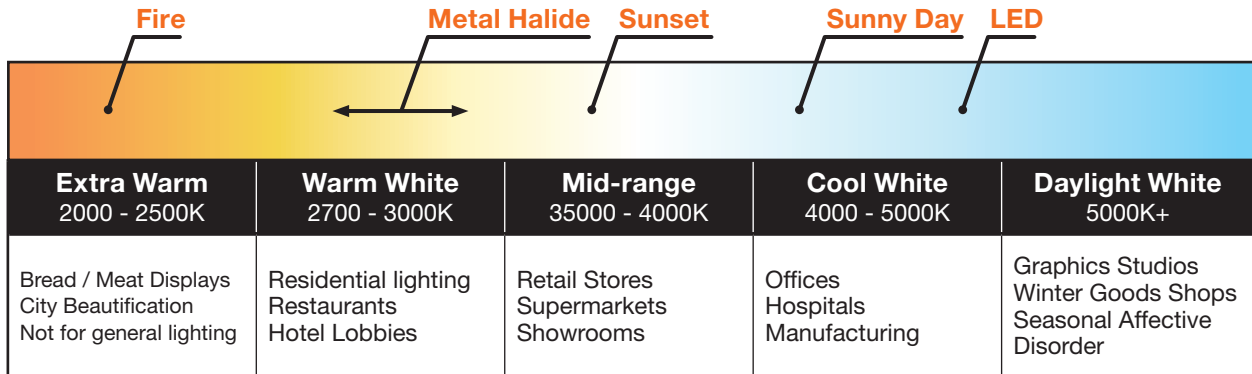
Lumens doesn’t really tell you what you need to know. Instead, look at the light coverage maps which show area covered at different foot candle thresholds. When you compare our LED Vs. 1100W metal halide tower (below), you can see that the light output from the LED tower is more focused and directional, with less light spilling to the sides.

<p>LED LIGHT TOWER COVERAGE 23-ft (7m) mast height 4 - 320w LED fixtures @ 20-degree tilt</p>  <p>25,068 ft² (2,328 m²) at min. 0.5 fc</p>	<p>METAL HALIDE TOWER COVERAGE 23-ft (7 m) mast height 4 - 1100w metal halide fixtures at 20-degree tilt</p>  <p>31,863 ft² (2,960 m²) at min. 0.5 fc</p>
<p> — 30 fc — 20 fc — 10 fc — 5 fc — 3 fc — 2 fc — 1 fc — 0.5 fc </p>	
<p style="text-align: center;">DEPRECIATION</p>	
<p>3% @ 10,000 hrs / 30% @ 50,000 hrs</p>	<p>50% @ 10,000 hrs</p>
<p style="text-align: center;">REPLACEMENT</p>	
<p>Expected LED life span more than 10 years / 50,000 hours</p>	<p>Rental companies estimate every 1,000 hours</p>

LED VS METAL HALIDE

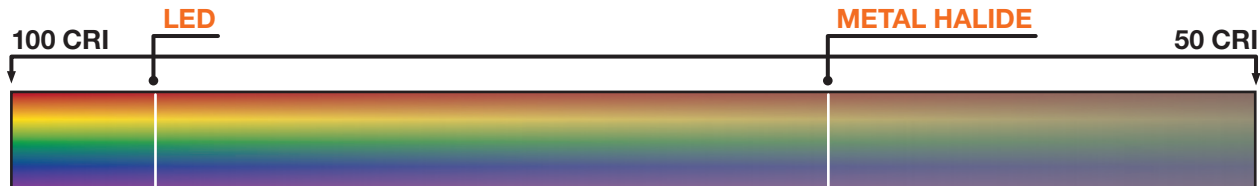
KELVIN COLOR TEMPERATURE

Metal halide bulbs change temperature with bulb degradation, so the color will not be consistent throughout the lifetime of the bulb. LEDs provide better, more consistent light. Kelvin Color Temperature examples can be seen below.





TASK COLOR RENDERING

The Color Rendering Index (CRI) is a measure of a light source's ability to show object colors "realistically" or "naturally" compared to a familiar reference source, either incandescent light or daylight. Color rendering is important in applications that have hazard or warning labels and signage present. Think of a bundle of colored wires, and needing to distinguish the difference between a blue wire and a green wire.



WARRANTY

While we say that Generac LEDs have a life expectancy of 10 years, that is very conservative. In fact, at 10 years / 50,000 hours, our LEDs will still operate at about 70% efficiency. So it is possible to get more than 10 years of solid, good-quality lighting from our LED fixtures.

 320W GENERAC® LED	 1100W Metal Halide
5 years Limited warranty on fixtures; includes modules, drivers and cords	2 years* *Bulbs are replaced at customer's expense and labor



CONTACT US FOR YOUR MOBILE LIGHTING NEEDS.

For more information visit or call us at:



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MOBILE