

# LED vs. Induction

<b>CRITERIA</b>	<b>LED</b>	<b>INDUCTION</b>
<b>Fixture Cost</b>	<b>2 – 4 times that of HID fixtures</b>	<b>Up to 50% more than HID.</b>
<b>Payback time on Investment</b>	<b>8 – 20 Years</b>	<b>Typically 2 – 4 Years, incl. maint. savings</b>
<b>Rated Life and Warranty</b>	<b>Approx 50,000 Hours</b>	<b>Up to 100,000 Hours and 10 Years</b>
<b>Lumen Maintenance</b>	<b>65% - 70% over 100,000 Hours</b>	<b>75% - 85% over 100,000 Hours</b>
<b>Component Heat Issues</b>	<b>Yes</b>	<b>No</b>
<b>Maintenance</b>	<b>Many LEDs in one system, potential for higher maintenance as individual LEDs fail.</b>	<b>Only one lamp - electrodeless. Virtually no maintenance costs during warranty period.</b>
<b>Energy Savings</b>	<b>~50%</b>	<b>~50%</b>
<b>Impact of High Temperature - 86°</b>	<b>Lumen Depreciation</b>	<b>None</b>
<b>Impact of Low Temperature - -31°</b>	<b>None</b>	<b>About 30 seconds to warm up</b>
<b>Mercury</b>	<b>None</b>	<b>.6 mg per watt, ½” Amalgam Tip</b>
<b>Fixture Costs</b>	<b>~\$1,200-\$1,600</b>	<b>~\$650-700</b>

# Chicago Union Station / Amtrak



**150w Induction / 250w HPS**



**150w Induction High Bay**

## Induction Lighting