




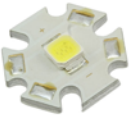


Lightology Lamp Chart						
Lamp Type	Incandescent	Halogen High Voltage, 120 volt	Halogen Low Voltage, 12 Volt	Florescent T5,T8,T12	Florescent CFLs	LED
Technology comparison						
Initial cost of Lamp and fixture	\$ Low	\$\$ Moderate	\$\$ Moderate	\$\$ Moderate	\$\$ Moderate	\$\$ Moderate to \$\$\$\$ High
Cost for Electricity	\$\$\$\$ High	\$\$\$ High	\$\$ Low	\$ Lowest	\$ Lowest	\$ Lowest
Lumens per watt (efficacy)	9 Lumens per Watt	18-20 Lumens per Watt	18-20 Lumens per Watt	50-100 Lumens per Watt	50-70 Lumens per Watt	20-60 Lumens per Watt
Average Lamp Life in Hours	700 hrs	2000 hrs	2000-10,000 hrs	10,000-20,000 hrs	10,000	40,000-50,000 hrs
Color Temperature	2400K-2700K Very Warm	3100K-3200K Warm	2900K-3200K Warm	2700K-6500K Very Warm to Daylight	2700K-6500K Very Warm to Daylight	2400K-6500K Very Warm to Day Light or in RGB (Colored)
CRI Color Rendering Index	100 Excellent	100 Excellent	100 Excellent	70-92 OK to Very Good	80-92 Very Good	70-92 OK to Very Good
Beam spreads (in degrees)	60° to 120° floods and 360°	30° to 60° (spots to flood) and 360°	10° to 60° (spots to flood) and 360°	360° only, with reflector 120°	360° degrees light spread	10° to 120° (narrow spot to wide flood beams) and 360°
Dimmable	Yes, with an Incandescent Dimmer (as low as \$4 per dimmer)	Yes, with an Incandescent Dimmer (as low as \$4 per dimmer) Color Temperature gets warmer when dimmed.	Yes, with a low voltage dimmer that must match with the type of transformer (\$34 min cost) Color Temperature gets warmer when dimmed.	Yes, can be expensive, T5 and T8 Florescent lamps dim with special ballasts (+\$170) and 0-10 volt dimmers (\$150) Color Temperature gets cooler when dimmed.	Yes, Moderate priced (\$25-\$35) Color Temperature gets cooler when dimmed.	Many LEDs do dim, but must be match with the correct Dimmer from low voltage electronic (\$34) to 0-10 volt dimmer (\$170 +)