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Exterior Lighting Technology Comparison

<u>Performance Specification</u>	<u>EPS/Orion Linear Fluorescent</u>	<u>LED</u>	<u>Induction Fluorescent</u>	<u>750w Metal Halide/HID</u>
Price	\$375- \$475	\$600- \$1000	\$600- \$1000	\$350- \$450
Annual Energy Costs	\$98	\$198	\$202	\$408
Power Consumption of Fixture	216 watts	380 watts	400 watts	862 watts
Number of Lamps	4	360 LED's	2	1
Lamp Replacement Cost	\$9.00 ea., \$36/fixture	May have to Replace Entire Fixture	\$250 ea., \$500/fixture	\$50- \$80
Lamp Longevity	42,000 hours	50K hours Prorated Limited Warranty	100,000 hours	20,000 hours
Lamp Availability	Numerous	Proprietary	Very Limited	Numerous
Lumens/ Watt	95	82	75	86
Color Rendering Index	84	?	80	65
Light Loss over Life of Lamp	7%	35%	40%	20%
Time to Change Ballast/Driver	30 Minutes	No Ballast, Low Voltage Transformer	90 minutes	30 Minutes
Lamp Wattage	54 watts	?	200 watts	750 watts
Kelvin Temperature	3500, 4100, or 5000 Degrees	3500, 4100, or 5000 Degrees	3500 or 4100 Degrees	4100 Degrees
Start Up	Instant ON	Instant ON	Instant ON	5-10 minute warm up
Reflector Design	Highly Reflective	No Reflector, Loss of Light	Ineffective, Loss of Light	Dome, point light
Frame Design	Enclosed & Gasketed	Enclosed	Enclosed	Enclosed
Dark-Sky Approved	Yes	No	No	Possible
Rebates Available	Yes	Minimal	Yes	Minimal
Component Manufacturers	General Electric	Proprietary	Sylvania, Philips	Numerous
National Clients	Numerous, Fortune 500	None	None	Legacy Product

Don't be Mis-LED by Induction Fluorescent & LED Options

Myth

Induction Fluorescent lasts forever

LED & Induction Fluorescent are the only options to reduce energy consumption for exterior lighting.

LED's last forever.

LED & Induction Fluorescent are cost effective.

Fact

The lamps do last a long time, but the drivers typically fail before the lamps and it is then advisable to change both the driver and lamps while absorbing all the costs to get into the fixture. Cost of repair: \$500-600 (about the same as a new fixture)

Linear Fluorescent Technology is the clear energy reduction leader! Period! It also provides more light output for less energy input than all other options.

LED's have significant lumen depreciation. Linear Fluorescent Technology provides comparable operating hours and superior lumen maintenance to ensure public safety.

LED & Induction Fluorescent are very expensive with little benefit over existing lighting. Linear Fluorescent technology is a third to a half the cost with a host of other benefits.