

Technology Comparisons

Lights required to equal one 200 Watt Induction Light	Incandescent 100W	Fluorescent Units 40W
Lights Wattage Required	1,600	600
Fixture Wattage Required	1,600	650
Annual KWH Used (10hrs/day)	5,840	2,373
Annual Cost of Electricity	\$ 467.20	\$ 189.80
Life (Hours)	750	20,000
Units Required	16	7
Replacement Within 10 (Ten) Years	48.7	1.8
Replacement Materials Per Unit	\$ 8.00	\$ 5.00
Ballast Replacement Cost		
Cost of Replacement Labor per 25K PL Unit Replacement	\$ 320.00	\$ 140.00
Total Cost per replacement (mat'l and labor)	\$ 328.00	\$ 145.00
Total Maintenance Cost 10 Years	\$ 15,962.67	\$ 264.63
Total Electricity Cost 10 Years	\$ 4,672.00	\$ 1,898.00
Total Cost including Electricity per 25K PL Unit (10 Years)	\$ 20,634.76	\$ 2,126.63
Total Cost per 10,000 25K PL Units over 10 Years	\$ 206,346,667.00	\$ 21,626,250.00
Savings over 10 Years by using Induction Lighting	\$ 200,944,667.00	\$ 16,224,250.00

Based on 10 hrs/day operation

Cost of Electricity = \$.08 per KWH

Equivalent units needed to produce the same amount of light at one 200W Induction light

This is operational and maintenance cost comparison, assuming light is installed and operational

Source: Dept of Energy usage statistics

	Halogen 100W	Mercury Vapor 350W	Metal Halide 300W	Low Pressure Sodium	High Pressure Sodium
	1,300	700	300	450	400
	1,300	800	350	550	450
	4,745	2,920	1,278	2,008	1,643
\$	379.60	\$ 233.60	\$ 102.20	160	\$ 131.40
	2,500	24,000	11,000	18,000	20,000
	12	2	1	1	1
	14.6	1.5	3.3	2	1.8
\$	36.00	\$ 15.00	\$ 25.00	\$ 39.00	\$ 20.00
		\$50-150.00	\$50.-150.00	\$200-250.00	\$100-150.00
\$	240.00	\$ 40.00	\$ 100.00	\$ 100.00	\$ 100.00
\$	276.00	\$ 55.00	\$ 125.00	\$ 139.00	\$ 120.00
\$	4,029.60	\$ 83.65	\$ 414.77	\$ 281.00	\$ 219.00
\$	3,796.00	\$ 2,336.00	\$ 1,022.77	\$ 1,606.00	\$ 1,314.00
\$	7,825.60	\$ 2,419.65	\$ 1,436.77	\$ 1,887.36	\$ 1,533.00
\$	78,256,000.00	\$ 24,196,458.00	\$ 14,367,727.00	\$ 18,878,611.00	\$ 15,330,000.00
\$	72,854,000.00	\$ 18,794,458.00	\$ 8,965,727.00	\$ 13,476,611.00	\$ 9,928,000.00

Induction

LED

	200		200
	185		208
	675		795
\$	54.02	\$	60.74
	100,000		50,000
	1		1
	-		-
\$	950.00	\$	800.00
\$	100.00	\$	100.00
\$	1,000.00	\$	900.00
	-		-
\$	540.20	\$	607.36
\$	540.20	\$	607.36
\$	5,402,000.00	\$	6,073,600.00
	- \$		671,600.00