

City of Portland, ME

4,260 hrs/yr
 \$ - Rebate \$0.11364 ~Rate



Life Cycle Analysis							
Manufacture	Existing kWh	kWh Saved	Rebate	Ranking	kWh Post Retrofit	Electric cost over 12 years	Ranking
AEL	2,461,203	1,825,939	\$ -	2	635,264	\$ 866,320	2
Leotek	2,461,203	1,790,249	\$ -	3	670,954	\$ 914,991	3
Affinity	2,461,203	1,729,299	\$ -	4	731,904	\$ 998,109	4
Cree	2,461,203	1,844,836	\$ -	1	616,367	\$ 840,549	1

Manufacture	Luminaire Cost	Year 1 kWh cost	Year 2 kWh cost	Year 3 kWh cost	Year 4 kWh cost	Year 5 kWh cost	Year 6 kWh cost	Year 7 kWh cost	Year 8 kWh cost	Year 9 kWh cost	Year 10 kWh cost	Year 11 kWh cost	Year 12 kWh cost	Cost of ownership over 12 years	Ranking
AEL	\$ 941,636	72,193	72,193	72,193	72,193	72,193	72,193	72,193	72,193	72,193	72,193	72,193	72,193	\$ 1,807,955	3
Leotek	\$ 747,671	76,249	76,249	76,249	76,249	76,249	76,249	76,249	76,249	76,249	76,249	76,249	76,249	\$ 1,662,662	1
Affinity	\$ 996,508	83,176	83,176	83,176	83,176	83,176	83,176	83,176	83,176	83,176	83,176	83,176	83,176	\$ 1,994,617	4
Cree	\$ 906,379	70,046	70,046	70,046	70,046	70,046	70,046	70,046	70,046	70,046	70,046	70,046	70,046	\$ 1,746,928	2

\$ 158,709 Difference of Cree vs. Leotek

Qty	341	992	66	2,871	772	-
Cobra Head LED Equal	75-watt Equal	50-watt Equal	90-watt Equal	25-watt Equal	30-watt Equal	145-watt Equal

Manufacture	Submitted Wattage	Fixture Lumens	Submitted Wattage	Fixture Lumens	Submitted Wattage	Fixture Lumens	Submitted Wattage	Fixture Lumens	Submitted Wattage	Fixture Lumens	Submitted Wattage	Fixture Lumens	Total Lumens	Total Watts	Lumens per watt	Ranking		
																Most Light (lm)	Most Efficient (lm/W)	Most Energy Saved
AEL	76	8,525	50	6,101	95	11,690	24	3,167	31	3,780			21,741,374	149,123	145.8	2	1	2
Leotek	73	8,780	46	5,130	88	10,230	29	3,470	29	3,470			21,399,330	157,501	135.9	3	3	3
Affinity	81	9,357	63	6,831	81	9,357	25	2,938	41	4,899			22,801,677	171,808	132.7	1	4	4
Cree	75	7,892	50	6,613	83	9,500	23	2,756	30	3,617			20,583,068	144,687	142.3	4	2	1