



# Choices

## ELECTRONIC

### HID Lighting Solutions

25° C Ambient Temperature

	Fluorescent Highbay 6-lamp high-lumen T5 lamps 6 Lamp T5 HO	Fluorescent Highbay 4-lamp high-lumen T5 lamps 4 Lamp T5 HO	Fluorescent Highbay 6-lamp lumen T8 lamps 6 Lamp T8	BL-SU 400W CWA high-bay-19" BL400Hx-SU/LR19	BL-SU 400W Pulse Start CWA high-bay-19" BL400Wx-SU/LR19	EL-SU 400W Electronic high-bay-19" EL40Wx-SU/LR19
Fixture Mounting Height	30 FOOT	30 FOOT	30 FOOT	30 FOOT	30 FOOT	30 FOOT
Initial lamp lumens	4400	4400	2950	44000	44000	44000
Number of lamps	6	4	6	1	1	1
Initial fixture lumens	26400	17600	17700	44000	44000	44000
Ballast factor	1	1	1.15	0.95	0.95	1
Initial fixture lumens (ballast corrected)	26400	17600	20355	41800	41800	44000
Lamp lumen depreciation	0.95	0.95	0.95	0.65	0.75	0.9
Luminaire dirt depreciation	0.85	0.85	0.85	0.88	0.88	0.88
<b>Total Light Loss Factor</b>	<b>0.81</b>	<b>0.81</b>	<b>0.93</b>	<b>0.54</b>	<b>0.63</b>	<b>0.79</b>
Maintained fixture lumens	21318.0	14212.0	16436.7	22714.1	26208.6	34848.0
Fixture watts	343	224	222	460	460	430
Fixture lumens/watt	62.15	63.45	74.04	49.38	56.98	81.04
CRI	82	82	82	62	62	62
Number of fixtures	45	66	77	64	40	32
Cost/kWh	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10	\$0.10
Total wattage	15435	14784	17094	29440	18400	13760
Square footage	20000	20000	20000	20000	20000	20000
Watts/square foot	0.77	0.74	0.85	1.47	0.92	0.69
Annual operating hours	6000	6000	6000	6000	6000	6000
<b>Annual Energy Costs</b>	<b>\$9,261</b>	<b>\$8,870</b>	<b>\$10,256</b>	<b>\$17,664</b>	<b>\$11,040</b>	<b>\$8,256</b>
Unit Fixture Cost	\$130	\$115	\$100	\$125	\$145	\$280
Total Fixture Cost	\$5,850.00	\$7,590.00	\$7,700.00	\$8,000.00	\$5,800.00	\$8,960.00
Labor per fixture (\$100 per fixture)	\$4,500.00	\$6,600.00	\$7,700.00	\$6,400.00	\$4,000.00	\$3,200.00
<b>Installation Costs</b>	<b>\$10,350.00</b>	<b>\$14,190.00</b>	<b>\$15,400.00</b>	<b>\$14,400.00</b>	<b>\$9,800.00</b>	<b>\$12,160.00</b>
Lamp Life	36,000	36,000	36,000	20,000	20,000	40,000
Group Re-Lamp Target	21,600	21,600	21,600	12,000	12,000	24,000
Lamp Change Factor	0.28	0.28	0.28	0.50	0.50	0.25
Lamp Costs	\$1,350.00	\$1,320.00	\$924.00	\$2,560.00	\$1,600.00	\$1,280.00
Lamp Change Labor	\$450.00	\$660.00	\$770.00	\$512.00	\$320.00	\$256.00
Scissor Lift	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
<b>Re-Lamping Costs</b>	<b>\$3,300.00</b>	<b>\$3,480.00</b>	<b>\$3,194.00</b>	<b>\$4,572.00</b>	<b>\$3,420.00</b>	<b>\$3,036.00</b>
<b>Annual Re-Lamping Costs</b>	<b>\$916.67</b>	<b>\$966.67</b>	<b>\$887.22</b>	<b>\$2,286.00</b>	<b>\$1,710.00</b>	<b>\$759.00</b>
Lamp Costs	\$5.00	\$5.00	\$2.00	\$40.00	\$40.00	\$40.00
Lamps Per Fixture	6	4	6	1	1	1
Lamp cost per Fixture	\$30.00	\$20.00	\$12.00	\$40.00	\$40.00	\$40.00