



New Horizon Lighting

Cost Analysis

Job name: **125,000 Sq. Ft. Production Area**

	System 1		System 2	
	400w MH High Bay M400U		4 Lamp T5HO High Bay F54T5HO	
General:				
Area of installation:	NA	Sq ft	NA	Sq ft
Mounting height:	SAME	Feet	SAME	Feet
Desired foot candles:	SAME	fc	SAME	fc
Catalogue number:	EXISTING		NHL5-4-64T5HO-480-LP	
Number of units dimmable:				
Number of units non-dimmable:	308		308	
Assumption:				
System cost per unit (approx.):			\$168.00	
Installation costs per unit (approx.):				
Utility Rebate/Fixture:				
System wattage (Lamp&Ballast) Full Power:	464	Watts	234	Watts
Lamp wattage	400	Watts	216	Watts
Ballast wattage loss:	64	Watts	18	Watts
System wattage (Lamp&Ballast) Low Power:		Watts		Watts
Operating hours:	4420	Hrs	4420	Hrs
% of Operating hours dimmed:				
Re-lamping schedule: *	3.26	Years	6.79	Years
Re-lamping costs per unit: (approx.)	\$25.00		\$24.00	
Energy cost per kWh:	\$0.100		\$0.100	
INITIAL COSTS				
Fixture cost:			\$51,744.00	
Installation cost:				
Utility Rebates:				
Total initial costs:			\$51,744.00	
ANNUAL OPERATING COSTS				
Total annual kW consumption:	631671.04	kW	318558.24	kW
Total annual system kW (Full Power):	631671.04	kW	318558.24	kW
Total annual system kW (Low Power):		kW		kW
Annual energy cost:	\$63,167.10		\$31,855.82	
Annual relamping cost*:	\$2,363.47		\$1,089.09	
Total annual operating cost:	\$65,530.58		\$32,944.91	
COMPARISON				
Initial cost:			\$51,744.00	
Operating cost:	\$65,530.58		\$32,944.91	
RETURN ON INVESTMENT				
R.O.I. In Years**:	1.59		Annual Savings \$32,585.66	
			Savings Occurred during R.O.I. Period \$51,744.00	

* System 1 Re-Lamp @ 60% of rated life. System 2 Re-Lamp @ 100% of rated life plus \$ - labor cost.
 ** Difference in Total initial Costs (System1-System 2) + Difference in Total Annual Operating Costs (System1-System 2).
 NOTE: Above analysis is based on data tested in DPS stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurement.