New Horizon Lighting

Cost Analysis

Job name: ***Facility Lighting Retro Fit***

	System 1		System 2	
	400w MH High Bay M400/U		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		NHL5-4-54T5HO-UNV	
Number of units dimmable:				
Number of units non-dimmable:	70		70	
Assumption:				
System cost per unit (approx.):			$200.00	
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:	4732	Hrs	4732	Hrs
% of Operating hours dimmed:				
Re-lamping schedule: *	1.90	Years	5.07	Years
Re-lamping costs per unit: (approx.)	$25.00		$16.00	
Energy cost per kWh:	$0.150		$0.150	
INITIAL COSTS				
Fixture cost:			$14,000.00	
Installation cost:				
Utility Rebates:				
Total initial costs:			***$14,000.00***	
ANNUAL OPERATING COSTS				
Total annual kW consumption:	153695.36	kW	77510.16	kW
Total annual system kW (Full Power):	153695.36	kW	77510.16	kW
Total annual system kW (Low Power):		kW		kW
Annual energy cost:	$23,054.30		$11,626.52	
Annual relamping cost*:	$920.11		$220.83	
Total annual operating cost:	***$23,974.42***		***$11,847.35***	
COMPARISON				
Initial cost:			***$14,000.00***	
Operating cost:	***$23,974.42***		***$11,847.35***	

RETURN ON INVESTMENT

R.O.I. In Years**: **1.15**

Annual Savings ***$12,127.06***

Savings Occurred during R.O.I. Period ***$14,000.00***

* **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 measurment.

New Horizon Lighting, 632 Cedar Swamp Road, Jackson NJ
www.newhorizonlighting.com Voice: 732-833-8086 Fax: 732-833-8085