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High-Bay Lighting Technologies Available

<u>Performance Specification</u>	<u>InteLite T8 Fluorescent</u>	<u>T5 Fluorescent</u>	<u>400w Metal Halide/HID</u>	<u>Benefit of T8 Fluorescent</u>
Number of Lamps	6	4	1	
Lamp Replacement Cost	\$3.00 ea., \$18/fixture	\$9.00 ea., \$36/fixture	\$30-60	Lower Maintenance Costs, T5 is a specialty bulb
Lamp Longevity	30,000 hours	20,000 hours	20,000 hours	Lower Maintenance and Labor Costs
Power Consumption of Fixture	148-221 watts	239 watts	465 watts	T5 costs \$11-\$55/fixture/year more forever!
Lamp Availability	Everywhere	Limited	Numerous	T8 Lamps can be found for sale in a grocery store!
Lumens/ Watt	102	84	86	Greater input (electricity) to output (light) ratio, efficient
Glare	No Glare, even spread	Very Glary, point light	Very Glary, point light	Even light levels, no "hot spots"
Light Loss over Life of Lamp	7%	16%	40%	Consistent light levels over lamp life
Time to Change Ballasts	2 Minutes	30 Minutes	30 Minutes	Minimized Disruption, Lower Maintenance Costs
BTU's, heat released from fixture	505-764	1338	1587	Lower Air Conditioning Costs
Lamp Length	4', Standard	< 4', European, non-std	NA	T5 has Few Manufacturers, High Cost, uncertain future
Lamp Wattage	32 watts	54 watts	400 watts	Lower energy usage per lamp
Kelvin Temperature	5000 Degrees	4100 Degrees	4100 Degrees	T8 has higher quality light with less electricity
Color Rendering Index	85	84	65	Excellent Color Recognition and Distinction
Start Up	Instant ON	Instant ON	5-10 minute warm up	Lower kWh Usage, Safety
Sensors Available	Yes	Yes	No	Extra savings from day lighting and low traffic areas
Reflector Design	Parabolic, 360° Reflection	Bends/Breaks, Refraction	Dome, point light	97% of Light is Harvested and Focused, Most Efficient
Frame Design	"I" Frame	Troffer	Dome	Less Heat, Longer Ballast Life, Easier Maintenance
Frame Material	5052 Aluminum	Steel, Alum.	Steel, Alum	Great heat dissipation, high corrosion resistance
Weight	14 lbs.	25 lbs.	40 lbs.	"One Man" can hang and install our T8 Fixtures
Wiring Design	Parallel	Series	NA	If a T5 lamp fails, at least a second lamp fails too
Rebates Available	Yes	Yes	No	PG&E/SCE encourage transition to modern technology
Environmental Stewardship	ECO Lamps, Low Merc	NO, Not Available	NA	"Green" Technology
National Clients	Numerous	Few	NA	visit: www.orionlighting.com for customers

InteLite T8 Exclusives

Power Pack Ballast Module
 Power Pack Ballast Module
 Patented Reflector
 Modularity
 Plug and Play
 UL Listed: Portable Luminaire

Benefit

Maximized Energy Savings for a desired light level
 Ease of Ballast Maintenance, change a ballast in two minutes
 97% Reflectivity, Harvests and Focuses 360 degrees of light output of lamps
 Provides a flexible and expandable technology platform, every fixture can simply be unplugged
 Motion Sensors just plug in, no wiring required
 Flexibility in Installation Placement, Adaptable to facility changes and requirements

Demand Response
 Emission Credits

Must be on the Orion Technology Platform to get this additional savings opportunity
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