

envirobrite

ENERGY PLANNING ASSOCIATES

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greenSEAL

FFO T8 I FRAME HIGH BAY

1 - 6 Lamp T8 Fixture

Description

Fluorescent High-Bay systems have become the number one cost effective option for retrofitting the aging technology of metal halide, mercury vapor and high-pressure sodium HID lamps. Envirobrite's® One-For-One (OFO) multi-lamp T8 I-Frame (FFO) Fluorescent High-Bay systems have made retrofitting HID lamps the accepted norm for any facilities enhancements. Added benefits of instant start lamps, premium color rendition, comparable lumens per watt and reduced glare have further justified this technology shift.

Application

For more than ten years companies have moved toward a green alternative for lighting indoor spaces with high ceilings (ex. warehouses, factories, aircraft hangers, and gyms, etc.). Significant advancement in fluorescent lamps, ballasts and fixture efficiencies and the addition of rebates have made fluorescent lighting the most cost-effective choice for any application creating excellent return on investment.

Design

Envirobrite® One-For-One aluminum reflectors and I-Frame systems are designed by our expert in-house lighting engineers for ideal photometry and trouble-free installation. Every Envirobrite I-Frame body is designed to meet UL 1570 specifications for safety. Each Envirobrite I-Frame maximizes capture efficiency – the amount of lumens generated by the lamp that the reflector actually controls. Smaller HID where reflectors are used have less capture efficiency (less control) while larger reflectors have more capture efficiency (more control). This is a critical element in Envirobrite's Fluorescent High-Bay design allowing the I-Frame to control the light and direct it to a specified area. Our One-For-One reflectors are designed to maximize capture efficiency (lumen control) while minimizing material cost. We manufacture all I-Frame bodies around the reflector allowing form to follow function and provide variable spacing criteria options from .5 through 2.0 to meet any application.



Primary Features & Benefits

- Proudly Designed, Made and Assembled in the USA
- UL Listed
- Utility rebate friendly throughout the U.S.
- Enhanced Fixture Efficiencies
- Significantly improved lumen maintenance
- One to twelve lamp configurations
- Dimmable ballast option
- Narrow and regular photometric distribution – and optional upright reflectors
- Optional motion / occupancy sensing and photo-cell technology for further savings
- Two I-Frame dimension options measuring about 1x4 and 2x4
- Significant reduction in energy and maintenance costs
- Qualifies for maximum \$.60 square foot EPACT tax deduction
- Multi-facet optical design for maximum performance
- Universal Voltage 120-277 / 347-480 capable
- Riveted construction for added durability
- Aluminum components generate a rust-free approach to less maintenance and lasting appeal
- Individual, continuous row or side by side mounting options – tandem wiring

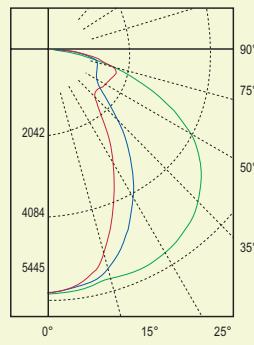
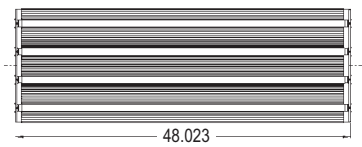
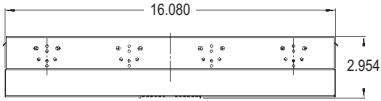
Quick, Safe and Labor Efficient Installation

- Snap-in locking lampholders
- 100% aluminum for a lightweight, safe and easy installation
- Streamlined packaging for easy jobsite material management
- Toolless ballast access

For added efficiency include high quality T8 lamps. Adding an Envirobrite® approved motion sensor system to your lighting upgrade project will further enhance energy savings and create an even faster payback.



Fixture Dimensions 4 Lamp



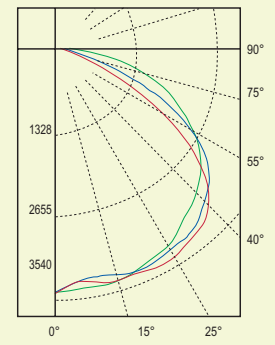
0° — Candela Plot
45° — 4 Lamp T8
90° —

Zonal Lumen Summary

Zone	Lumens	% Lamp	Fixture
0-30	3796	32.7	35.2
0-40	5510	47.5	51.1
0-60	8376	72.2	77.6
0-90	10761	92.8	99.7

Total Luminaire Optical Efficiency = **93.0%**
*specs taken using (FFO2404T832ENONB)

Luminaire Spacing Criterion
0 deg - **1.2** 90 deg - **.7**
Call factory for full photometric report



0° — Candela Plot
45° — 4 Lamp T8
90° —

Zonal Lumen Summary

Zone	Lumens	% Lamp	Fixture
0-30	3104	26.8	29.7
0-40	5170	44.6	49.5
0-60	9058	78.1	86.8
0-90	10435	90.0	100.0

Total Luminaire Optical Efficiency = **90.0%**
*specs taken using (FFO2404T832ENORB)

Luminaire Spacing Criterion
0 deg - **1.2** 90 deg - **1.3**
Call factory for full photometric report

Material Choice

- 95% Enhanced Aluminum
- 91% White Aluminum

Ordering Information

Sample number: **FFO2404T832ENONBVMVTL14H**

FIXTURE

TYPE	DIMENSION	LAMPS	LAMP TYPE	REFLECTOR	FIXTURE OPTICS	VOLTAGE
<input type="radio"/> FFO=I Frame	<input type="radio"/> 14=1x4 <input type="radio"/> 24=2x4	<input type="radio"/> 01=1 Lamp <input type="radio"/> 02=2 Lamp <input type="radio"/> 03=3 Lamp <input type="radio"/> 04=4 Lamp <input type="radio"/> 05=5 Lamp <input type="radio"/> 06=6 Lamp	<input type="radio"/> T832=32W	<input type="radio"/> EN=95% MIRO 4 Enhanced <input type="radio"/> EU=95% MIRO 4 Enhanced Uplight <input type="radio"/> WN=91% White <input type="radio"/> WU=91% White Uplight	<input type="radio"/> ONB=Narrow Beam <input type="radio"/> ORB=Regular Beam	<input type="radio"/> VMVT=120/277 <input type="radio"/> VHVT=347/480

BALLAST TYPE	BALLAST CONFIGURATION	NO. OF BALLASTS	NO. OF LAMPS	BALLAST FACTOR
<input type="radio"/> IS=Instant Start	<input type="radio"/> L=Single	<input type="radio"/> 1=1 Ballast	<input type="radio"/> 1=1 Lamp <input type="radio"/> 2=2 Lamp	<input type="radio"/> L=Low
<input type="radio"/> PS=Programmed Start	<input type="radio"/> M=Multi	<input type="radio"/> 2=2 Ballasts	<input type="radio"/> 3=3 Lamp <input type="radio"/> 4=4 Lamp <input type="radio"/> 5=5 Lamp <input type="radio"/> 6=6 Lamp	<input type="radio"/> S=Standard <input type="radio"/> H=High

OPTIONS

MOUNTING OPTIONS	CORD - Optional				WIRE CAGE	EMERGENCY BALLAST	
	CORD	ATTACHED/UN	SPECIALTY	PLUG			
<input type="radio"/> NF1=Fixture Mounting Kit	<input type="radio"/> D06=6' Cord	<input type="radio"/> A=Attached Top	<input type="radio"/> 1=Cold Temperature	<input type="radio"/> N=No Plug	<input type="radio"/> W1=11 Guage Wire Cage	<input type="radio"/> P=Painted	<input type="radio"/> EII=lota Pre-wired
<input type="radio"/> NF2=Fixture Mounting Kit No Hub	<input type="radio"/> D10=10' Cord	<input type="radio"/> U=Unattached	<input type="radio"/> 0=None	<input type="radio"/> T=Twist Lock Plug	<input type="radio"/> W4=14 Guage Wire Cage		
<input type="radio"/> NF3=Side by Side Mounting Kit	<input type="radio"/> D12=12' Cord	<input type="radio"/> S=Attached Side		<input type="radio"/> P=Standard Plug			
<input type="radio"/> NF4=Linear Mounting Kit	<input type="radio"/> D15=15' Cord						
<input type="radio"/> NF9=Mounting Hook	<input type="radio"/> D20=20' Cord						
	<input type="radio"/> D25=25' Cord						

MOTION SENSOR - Optional

CONTROL TYPE	POWER FEED	APPLICATION	CONFIGURATION
<input type="radio"/> CMSN=Motion Sensor	<input type="radio"/> 1=Single Pole	<input type="radio"/> A=Aisle 10 Degree	<input type="radio"/> QIO=Sensor Inboard/Outboard
<input type="radio"/> CMPU=Motion Sensor with Photcell Facing Up	<input type="radio"/> 2=Two Pole	<input type="radio"/> H=High Bay 360 Degree	<input type="radio"/> QSA=Sensor All
<input type="radio"/> CMPD=Motion Sensor with Photcell Facing Down			
<input type="radio"/> CMLH=Motion Sensor with Low Temp/High Humidity			
<input type="radio"/> CPWO=Prewire Only			
<input type="radio"/> CLPD=Low Temp/High Humidity			