

envirobrite

ENERGY PLANNING ASSOCIATES

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greenSEAL

FEI ECONOMY I-FRAME HIGH BAY

4 & 6 Lamp T5 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® Economy I-Frame Fluorescent High-Bay system produces excellent energy savings and superior lighting within a small footprint. The flexibility of either the 4 or 6 lamp T5 FEI has made retrofitting HID lamps the accepted norm for any facilities enhancements. Aluminum body fixtures have long been a favored material for their thermal properties and ability to illuminate and operate efficiently in cold and high temperature environments. Added benefits of instant start ups, 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 medium to 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's® FEI Economy I-Frame's reflectors and open body fixture was designed by our expert in-house lighting engineers for ideal photometry and trouble-free installation. Every Envirobrite® fixture is designed to meet UL 1570 specifications for safety. Our aluminum fixture body's riveted construction ensures added strength. Each Envirobrite® FEI fixture maximizes 'capture efficiency' – the amount of lumens generated by the lamp that the reflector actually controls. This is a critical element in Envirobrite's® Fluorescent High-Bay fixture design allowing the fixture to control the light and direct it to a specified area. We manufacture all fixture bodies around the reflector allowing form to follow function.

Primary Features & Benefits

- Proudly Designed, Made and Assembled in the USA
- UL Listed
- Utility rebate friendly throughout the U.S.
- Excellent replacement for 400w MH or HPS
- Enhanced Fixture Efficiencies
- 1.2 photometric distribution – and optional uplight reflector
- Instant and programmed-start low, normal or high power ballast choice
- Optional motion / occupancy sensing and photo-cell technology for further savings
- LOW COST with high performance
- 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

Quick, Safe and Labor Efficient Installation

- Pendant, surface, junction box, chain/aircraft cable or hook and cord mounting options
- Snap-in locking lampholders
- Streamlined packaging for easy job site material management
- 100% aluminum for a lightweight, safe and easy installation

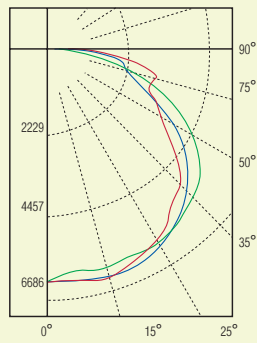
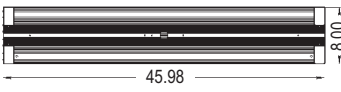
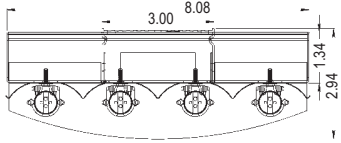
For added efficiency include high quality T5 lamps. Adding an Envirobrite® approved motion sensor system to your lighting upgrade project will further enhance energy savings and create an even faster payback.



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Fixture Dimensions



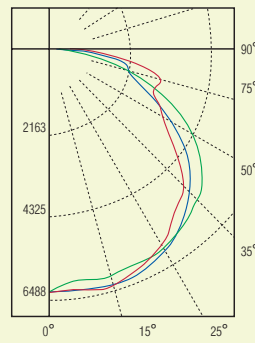
0° — Candela Plot
45° — 4 Lamp T5
90° —

Zonal Lumen Summary

Zone	Lumens	% Lamp	Fixture
0-30	5150	25.8	27.4
0-40	8310	41.6	44.3
0-60	14091	70.5	75.1
0-90	18678	93.4	99.5

Total Luminaire Optical Efficiency = **93.8%**
*specs taken using 95% MIRO reflector

Luminaire Spacing Criterion
0 deg - **1.2** 90 deg - **1.1**
Call factory for full photometric report



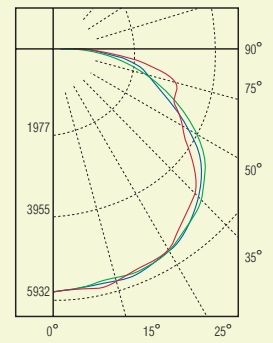
0° — Candela Plot
45° — 4 Lamp T5
90° —

Zonal Lumen Summary

Zone	Lumens	% Lamp	Fixture
0-30	5003	25.0	27.2
0-40	8081	40.4	44.0
0-60	13742	68.7	74.8
0-90	18291	91.5	99.5

Total Luminaire Optical Efficiency = **91.9%**
*specs taken using 91% white reflector

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



0° — Candela Plot
45° — 4 Lamp T5
90° —

Zonal Lumen Summary

Zone	Lumens	% Lamp	Fixture
0-30	4645	23.2	25.1
0-40	7621	38.1	41.1
0-60	13458	67.3	72.6
0-90	18445	92.2	99.5

Total Luminaire Optical Efficiency = **92.7%**
*specs taken using 93% micro matte reflector

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

Material Choice

- 95% Enhanced Aluminum
- 93% Micro Matte
- 91% White Aluminum

Ordering Information

Sample number: **FEI1404T554ENVMVTL14H**

FIXTURE

TYPE	DIMENSION	LAMPS	LAMP TYPE	REFLECTOR		VOLTAGE
<input type="radio"/> FEI=Economy I Frame	<input type="radio"/> 14=1x4	<input type="radio"/> 04=4 Lamp <input type="radio"/> 06=6 Lamp	<input type="radio"/> T554=54W	<input type="radio"/> EN=95% MIRO 4 Enhanced	<input type="radio"/> MU=93% Micro Matte Uplight	<input type="radio"/> VMVT=120/277
				<input type="radio"/> EU=95% MIRO 4 Enhanced Uplight	<input type="radio"/> WN=91% White	<input type="radio"/> VHVT=347/480
				<input type="radio"/> MN=93% Micro Matte	<input type="radio"/> WN=91% White Uplight	

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

OPTIONS

MOUNTING OPTIONS	CORD - Optional				WIRE CAGE	EMERGENCY BALLAST
	CORD	ATTACHED/UN	SPECIALTY	PLUG		
<input type="radio"/> NF1=Pendant 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"/> NF2=Pendant 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"/> UP=Unpainted
<input type="radio"/> NF9=Mounting Hook	<input type="radio"/> D12=12' Cord <input type="radio"/> D15=15' Cord <input type="radio"/> D20=20' Cord <input type="radio"/> D25=25' Cord	<input type="radio"/> S=Attached Side		<input type="radio"/> P=Standard Plug		

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			