

FEI ECONOMY I-FRAME HIGH BAY

4 & 6 Lamp T5 Fixture

Description

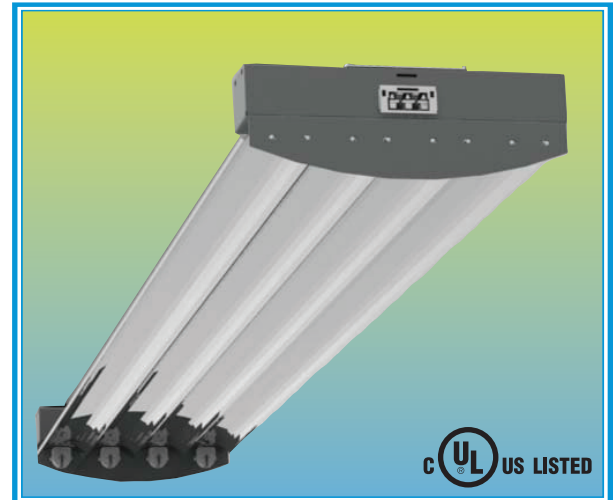
Fluorescent High-Bay systems have become the number one cost effective option for retrofitting the aging technology of metal halide, mercury vapor and high-pressure sodium HID lamps. Envirobrite's® Economy I-Frame Fluorescent High-Bay system produces excellent energy savings and superior lighting within a small footprint. The flexibility of either the 4 or 6 lamp T5 fixture 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 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 T5 light fixture'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

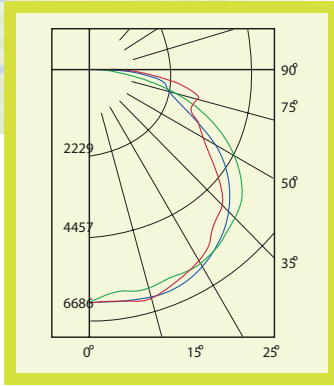
- Proudly Made and Assembled in the USA
- LOW COST with high performance
- Significant reduction in energy and maintenance costs
- Utility rebate friendly throughout the U.S.
- Enhanced Fixture Efficiencies
- Excellent replacement for 400w MH or HPS
- Instant and programmed-start low, normal or high power ballast choice
- Optional motion / occupancy sensing and photo-cell technology for further savings
- Aluminum components generate a rust-free approach to less maintenance and lasting appeal
- UL Listed
- 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
- Significantly improved lumen maintenance
- 1.2 photometric distribution – and optional uplight reflector
- Optional Plug-N-Brite for quick connect sensor and cord

Quick, Safe and Labor Efficient Installation

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

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.





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

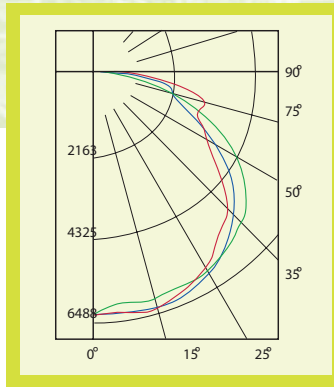
Miro4 95%

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	5150	25.8	27.6
0 - 40	8310	41.6	44.5
0 - 60	14091	70.5	75.4
0 - 90	18678	93.4	100.0

Total Luminaire Optical Efficiency = **93.4%**
*specs taken using 95% Miro4 reflector

Luminaire Spacing Criterion
0 deg - **1.25** | 90 deg - **1.17**
Call factory for full photometric report



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90° —

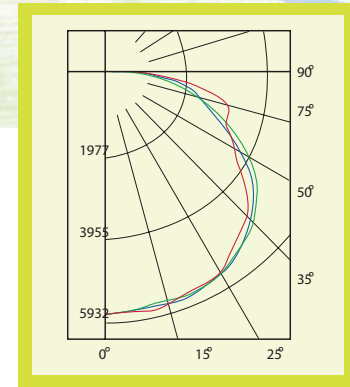
White 92%

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	5000.3	25.0	27.0
0 - 40	8080	40.4	44.2
0 - 60	13742	68.7	75.1
0 - 90	18291	91.5	100.0

Total Luminaire Optical Efficiency = **91.5%**
*specs taken using 92% white reflector

Luminaire Spacing Criterion
0 deg - **1.25** | 90 deg - **1.17**
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90° —

Micro Matte 93%

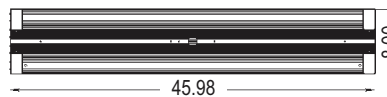
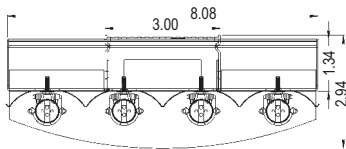
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	4645	23.2	25.2
0 - 40	7621	38.1	41.3
0 - 60	13459	67.3	73.0
0 - 90	18445	92.2	100.0

Total Luminaire Optical Efficiency = **92.2%**
*specs taken using 93% micro matte reflector

Luminaire Spacing Criterion
0 deg - **1.28** | 90 deg - **1.23**
Call factory for full photometric report

Fixture Dimensions



Material Choice

- 95% Enhanced Aluminum
- 92% White Aluminum
- 93% Micro Matte

Ordering Information

Sample number: FEI1404T554ENVMVT14H

[Product Link](#)

TYPE	DIMENSION	LAMPS	LAMP TYPE	REFLECTOR	VOLTAGE
<input type="radio"/> FEI = Economy I Frame	<input type="radio"/> 14=1x4	<input type="radio"/> 02=2 Lamp	<input type="radio"/> T554=54W	<input type="radio"/> EN=95% MIRO 4 Enhanced	<input type="radio"/> VMVT=120/277
		<input type="radio"/> 04=4 Lamp		<input type="radio"/> EU=95% MIRO 4 Enhanced Uplight	<input type="radio"/> VHVT=347/480
		<input type="radio"/> 06=6 Lamp		<input type="radio"/> WN=91% White	
				<input type="radio"/> WU=91% White Uplight	
				<input type="radio"/> MN=93% Micro Matte	
				<input type="radio"/> MV=93% Micro Matte Uplight	

FEI ECONOMY I-FRAME HIGH BAY

4 & 6 Lamp T5 Fixture

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"/> 1=1 Ballast	<input type="radio"/> 4=4 Lamp	<input type="radio"/> H=High
	<input type="radio"/> M=Multi	<input type="radio"/> 2=2 Ballasts		

OPTIONS

Mounting Options	PLUG-N-BRITE (quick connect 10' cord)	CORD - Optional				WIRE CAGE	EMERGENCY BALLAST
		CORD	ATTACHED/UN	SPECIALTY	PLUG		
<input type="radio"/> NF1=Fixture Mounting Kit	<input type="radio"/> D10P0N 10' Cord with no plug	<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"/> 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"/> D10P0T 10' cord with twist lock plug	<input type="radio"/> D12=12' Cord	<input type="radio"/> S=Attached Side		<input type="radio"/> P=Standard Plug	<input type="radio"/> P=Painted	
<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					
*Aircraft Cables Available		<input type="radio"/> D25=25' Cord					

PLUG-N-BRITE SENSOR (quick connect sensor)

MOTION SENSOR - OPTIONAL

PLUG-N-BRITE SENSOR (quick connect sensor)	MOTION SENSOR - OPTIONAL			
	CONTROL TYPE	POWER FEED	APPLICATION	CONFIGURATION
<input type="radio"/> CPWP1PQIO Prewired Inboard/Outboard Control	<input type="radio"/> EII=lota Pre-wired	<input type="radio"/> 1=Single Pole	<input type="radio"/> A=Aisle 10 Degree	<input type="radio"/> QIO=Sensor Inboard/Outboard
<input type="radio"/> CPWP1PQSA Prewired All lamps on sensor	<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"/> CMSS1HQIO Sensor Switch SFR-5 Inboard/Outboard Control	<input type="radio"/> CMPD=Motion Sensor with Photcell Facing Down			
<input type="radio"/> CMSS1HQSA Sensor Switch SFR-5 All lamps on sensor	<input type="radio"/> CMLH=Motion Sensor with Low Temp/High Humidity			
<input type="radio"/> CMWS1EQIO Watt Stopper FS355 Inboard/Outboard Control	<input type="radio"/> CPWO=Prewire Only			
<input type="radio"/> CMSS1HQSA Watt Stopper FS355 All lamps on sensor	<input type="radio"/> CLPD=Low Temp//High Humidity			

