

envirobrite

ENERGY PLANNING ASSOCIATES

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greenSEAL

FH5 BIAX ENCLOSED HIGH BAY

4, 5, 6 Lamp Biax Fixture

Description

Fluorescent High-Bay systems have become the number one cost effective option for retrofitting the aging technology of metal halide and high-pressure sodium HID lamps. Envirobrite's® Biax multi-lamp enclosed FH5 Fluorescent High-Bay systems have made retrofitting HID lamps an option 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 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. The FH5 is a great alternative and replacement for 2x2 lay-in/surface-mount HID fixtures.

Design

Envirobrite's® aluminum reflectors and Enclosed Body FH5 Biax fixtures are 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 bodies are imbedded with pem-nuts into the fixture body for added strength and optional wire cage attachments. Knockouts are located at both ends for continuous wiring. Rivets incorporated within the brackets and fixture sanction added reinforcement. Pre-painted baked on enamel add to the durability of each fixture. Each Envirobrite® FH5 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.
- Fixture dimension 2x2
- Enhanced Fixture Efficiencies
- Multiple lens appearance and material types available
- Instant and programmed-start ballast choice
- Optional motion / occupancy sensing and photo-cell technology for further savings
- 40w and 55w lamp options
- 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

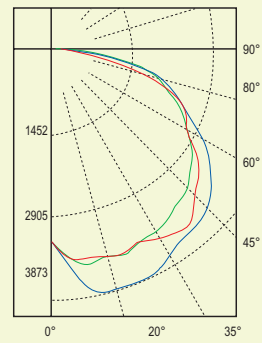
- Snap-in locking lampholders
- Streamlined packaging for easy job site material management
- 100% aluminum for a lightweight, safe and easy installation

Adding an Envirobrite® approved motion sensor system to your lighting upgrade project will further enhance energy savings and create an even faster payback.

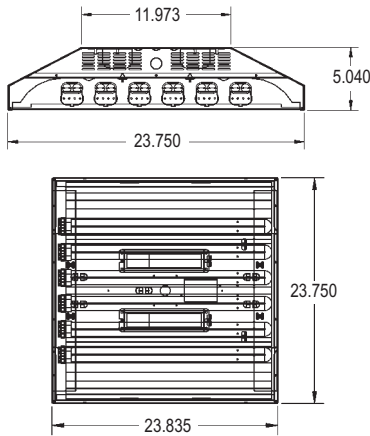


highfive





Fixture Dimensions



Wattage

(4) 40W Biax with Electronic Ballast (150 watts)
 (4) 55W Biax with Electronic Ballast (234 watts)

(5) 40W Biax with Electronic Ballast (185 watts)
 (5) 55W Biax with Electronic Ballast (295 watts)

(6) 40W Biax with Electronic Ballast (225 watts)
 (6) 55W Biax with Electronic Ballast (356 watts)

0° — Candela Plot
 45° — 4 Lamp 55 Watt
 90° —

Zonal Lumen Summary

| Zone | Lumens | % Lamp | Fixture |
|------|--------|--------|---------|
| 0-30 | 3404 | 17.7 | 19.9 |
| 0-40 | 5926 | 30.9 | 34.7 |
| 0-60 | 11794 | 61.4 | 69.0 |
| 0-90 | 17070 | 88.9 | 100 |

Total Luminaire Optical Efficiency = **88.9%**
 *specs taken using 93% micro matte reflector

Luminaire Spacing Criterion
 0 deg - **1.6** 90 deg - **1.7**
 Call factory for full photometric report

Material Choice

- 95% Enhanced Aluminum

Ordering Information

Sample number: **FH52204TB40ENVMTL14HLCSP**

FIXTURE

| TYPE | DIMENSION | LAMPS | LAMP TYPE | REFLECTOR | VOLTAGE |
|--|------------------------------|---|--|--|------------------------------------|
| <input type="radio"/> FH5= FH5 Biax Enclosed | <input type="radio"/> 22=2x2 | <input type="radio"/> 04=4 Lamp <input type="radio"/> 05=5 Lamp <input type="radio"/> 06=6 Lamp | <input type="radio"/> TB40=Biax 40W <input type="radio"/> TB55=Biax 55W | <input type="radio"/> EN=95% MIRO 4 Enhanced | <input type="radio"/> VMVT=120/277 |

| BALLAST CONFIGURATION | NO. OF BALLASTS | NO. OF LAMPS | BALLAST FACTOR | LENS | | |
|--------------------------------|--|--|------------------------------|--------------------------------|--|--|
| <input type="radio"/> L=Single | <input type="radio"/> 1=1 Ballast | <input type="radio"/> 4=4 Lamp | <input type="radio"/> H=High | THICKNESS | APPEARANCE | LENS TYPE |
| <input type="radio"/> M=Multi | <input type="radio"/> 2=2 Ballasts <input type="radio"/> 3=3 Ballasts <input type="radio"/> 4=4 Ballasts | <input type="radio"/> 5=5 Lamp <input type="radio"/> 6=6 Lamp | | <input type="radio"/> L12=.125 | <input type="radio"/> CS=Clear Smooth <input type="radio"/> P2=Pattern 12 | <input type="radio"/> P=Polycarbonate <input type="radio"/> A=Acrylic |

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"/> EII=lota Pre-wired |
| <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"/> 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 | | | |