

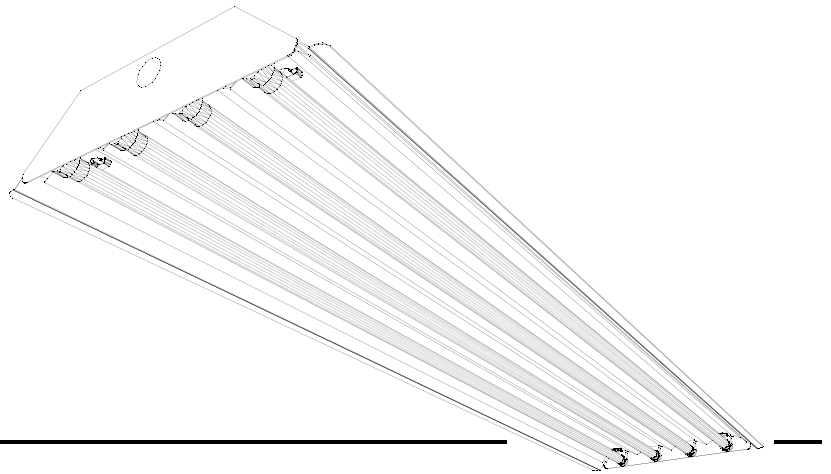
Features

*A Breakthrough Alternative to HID High-Bay Systems*

*Superior Light Quality, Maximum Photometric Efficiency*

*Solid, 0.032" Steel Construction*

*Computer Designed Specular Reflector*



Technical Data

**Housing:** 20ga. (0.032") pre-painted steel die formed with sufficient knockouts for mounting and electrical supply.

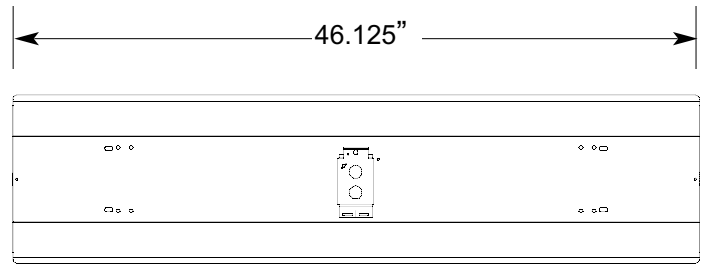
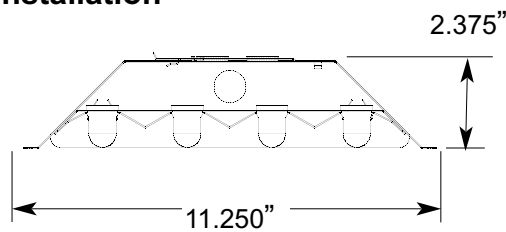
**Finish:** All cold rolled steel parts are painted with a smooth, glossy, highly reflective white paint.

**Reflector:** Can be ordered with a 95% specular, a 85% specular, or a 92% diffuse white enamel. Substrate is 0.020" high quality aluminum. The reflector profile is optimized using computer analysis and manufactured using state of the art CNC equipment. A protective premask is applied to all reflective surfaces prior to manufacture.

**Construction:** The solid body provides added rigidity. The socket bars are securely bolted to the fixture body. The reflector attaches with quarter-turn fasteners. No tools are required for reflector installation and removal.

**Mounting:** Fixture is designed for surface, pendant mount, or suspended applications

Installation



Highlights

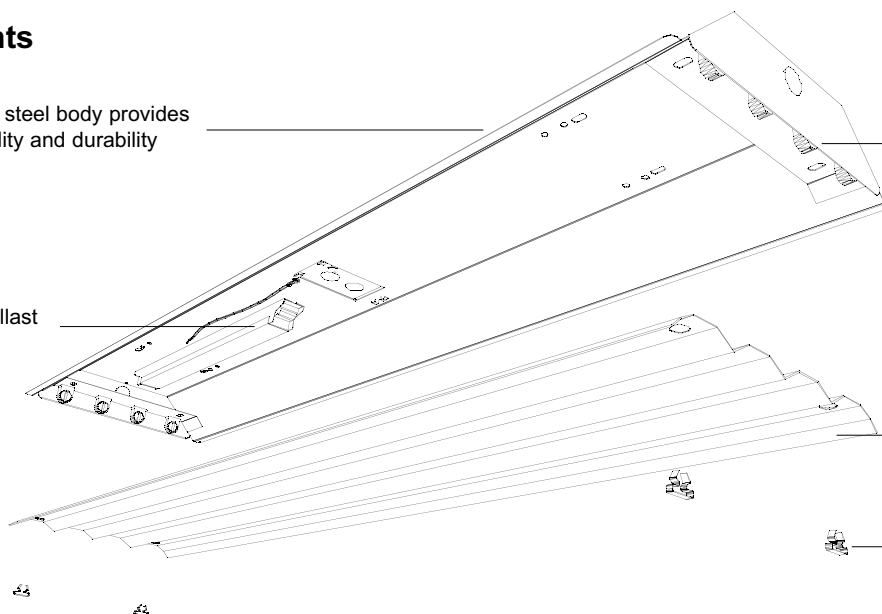
Solid, 0.032" steel body provides superior rigidity and durability

Electronic ballast

Quality, cam-lock lampholders

Computer designed, CNC formed 0.020" aluminum reflector

Tool-free quarter-turn reflector attachment



**Photometrics**



**itl boulder**

INDEPENDENT TESTING LABORATORIES, INC.  
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL56162 DATE: 05/16/05

PREPARED FOR: ENERGY SOLUTIONS INTERNATIONAL

CATALOG NUMBER: F-14EA-05521-454UNV

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH AND WHITE PAINTED METAL END PLATES, FORMED MULTI-FACETED METAL REFLECTOR WITH PREMIUM SPECULAR FINISH, OPEN BOTTOM.

LAMPS: FOUR 54-WATT T-5 SYLVANIA FP54/841/HO LINEAR FLUORESCENTS.

BALLAST: UNIVERSAL B454PUNV-E

MOUNTING: SURFACE

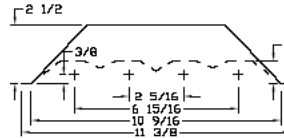
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

TOTAL INPUT WATTS= 213.7 AT 120.0 VOLTS

LUMEN TO CANDELA RATIO USED= 9.17

REPORT IS BASED ON 5000 LUMENS PER LAMP \*

CANDELA DISTRIBUTION				FLUX	
0	22.5	45.0	67.5	90.0	
0	6851	6851	6851	6851	6851
5	6852	6855	6879	6875	654
15	6562	6659	6620	6448	1840
25	6036	6134	5582	5080	2561
35	5245	5178	4214	4061	2835
45	4319	3877	3371	3402	2796
55	3238	2595	2661	2854	2493
65	2070	1701	1987	2211	2004
75	964	1011	1529	1960	1532
85	118	431	459	466	439
90	0	0	0	0	0

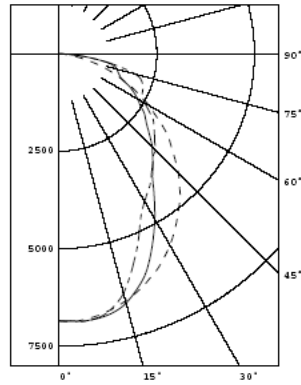


ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	5056	25.3	29.4
0- 40	7891	39.5	46.0
0- 60	13180	65.9	76.8
0- 90	17172	85.9	100.0
90-180	0	0.0	0.0
0-180	17172	85.9	100.0

TOTAL LUMINAIRE EFFICIENCY = 85.9 % \*

CIE TYPE - DIRECT  
PLANE : 0-DEG 90-DEG  
SPACING CRITERIA : 1.2 1.0  
SHIELDING ANGLES : 1 1  
PLANE : 0-DEG 90-DEG  
LUMINOUS LENGTH : 46.188 10.562

LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	19399.	15141.	15667.
55	17929.	14734.	16279.
65	15556.	14932.	17675.
75	11829.	18763.	24726.
85	4300.	16726.	15997.



LEGEND:  
0-3deg: - - - - -  
45-3deg: - - - - -  
90-3deg: - - - - -

Checked N WHITE  
Approved R REATTIE

\* SEE ADDENDUM FOR FURTHER INFORMATION  
THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.

**Ordering Information**

Part Number = Fixture Size + Reflector Material + # Lamps + Lamp Wattage + Voltage + Ballast Type + Options

(Example F-14LBEA454UNV = 1'x4' LB Series High Bay with an 95% aluminum reflector, 4-54W lamps, and a 120-277V Ballast)

Size	Reflector	# Lamps	Lamp Watts	Voltage	Options
F-14LB - 2' x 4'	EA - 95%Enhanced Alum AA - 85% Anodized Alum WR - 92% White Enamel	2 3 4	54	UNV 480	SEN - Sensor