

Features

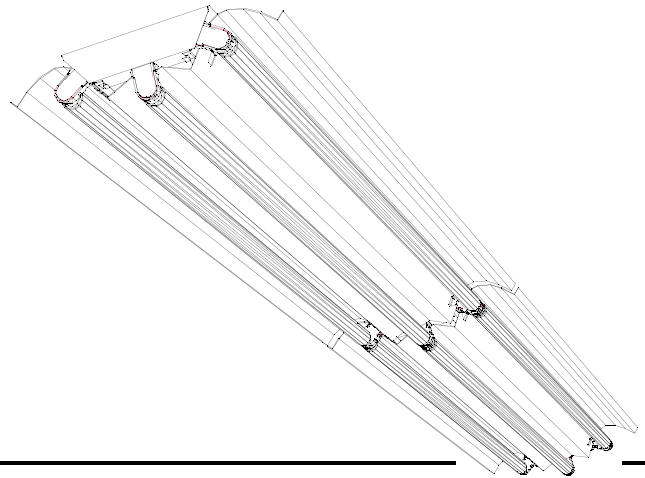
A Breakthrough Alternative to HID High-Bay Systems

Superior Light Quality, 93.7% Photometric Efficiency

Rigid, Four-Bend Press-Brake Formed Body

Oversize specular reflectors

224 Watts (with high-lumen ballasts)



Technical Data

Housing: 20ga. (0.036") pre-painted steel die formed with sufficient knockouts for mounting and electrical supply.

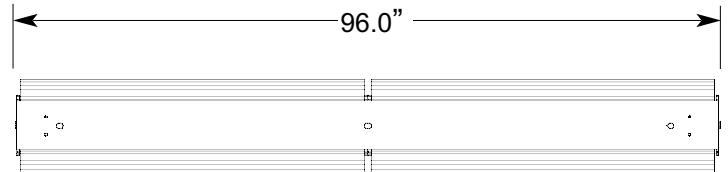
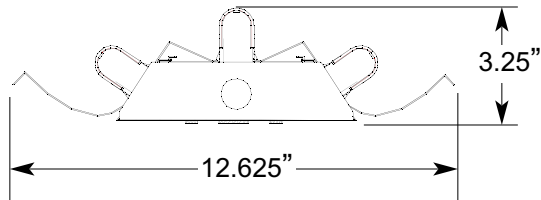
Finish: All cold rolled steel parts are painted with a smooth, glossy, highly reflective white paint.

Reflector: Can be ordered with a 95% specular, a 85% specular, or a 92% diffuse white enamel. (For maximum performance, 95% specular is recommended.) 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 four-bend body provides added rigidity. The socket bars and endplates securely snap into place. The reflectors are attached to the fixture body with a tab lock system. No tools or additional fasteners are required for reflector installation and removal.

Mounting: Fixture can be surface, pendant, or chain suspended.

Installation



Highlights

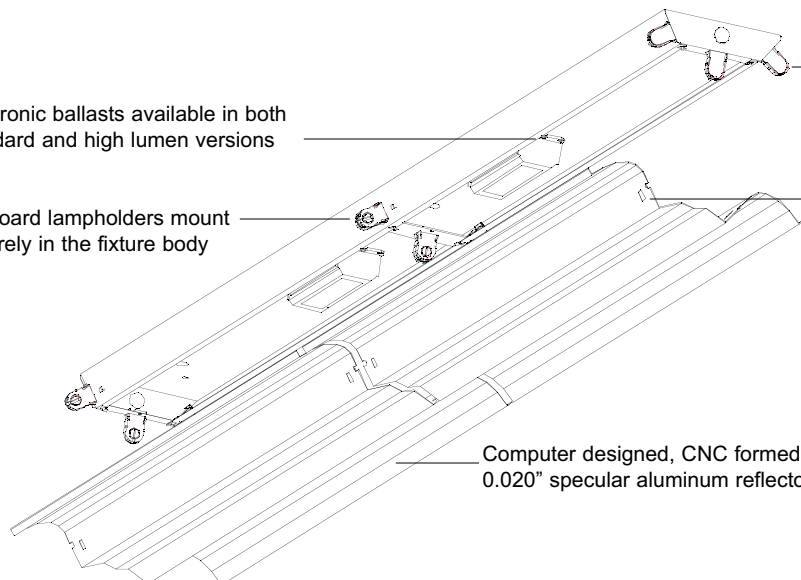
Electronic ballasts available in both standard and high lumen versions

Outboard lampholders mount securely in the fixture body

Quality, cam-lock lampholders

Tab mount, tool free reflector attachment

Computer designed, CNC formed 0.020" specular aluminum reflector



Photometrics

*Photometry and case study shown with F-18PSEA632H

Case Study



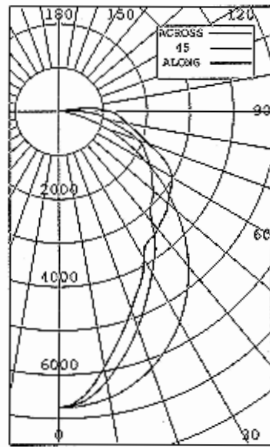
Lighting Sciences Inc.
7830 E. Evans Road
Scottsdale, Arizona 85260 USA
Tel: 480-991-9260 • Fax: 480-991-0375
CERTIFIED TEST REPORT NO. LSL 14194

250' x 40' x 25' Warehouse Space

Reflectances:

Ceiling 60
Walls 40
Floor 10

ENERGY SOLUTIONS 1 X 8 FLUORESCENT LUMINAIRE
WITH SPECULAR REFLECTOR AND NO LENS
SIX PHILIPS 32 WATT LAMPS, CAT# F32T8/TL841. LUMEN RATING = 3000 LMS.
TWO ADVANCE REL-3F32-RH-TP BALLASTS OPERATING AT 120 VAC AND 180 WATTS



ANGLE	ALONG	45	67.5	ACROSS	LUMENS
0	6754	6754	6754	6754	6754
5	6718	6663	6621	6559	6501
15	6442	6174	5729	5448	5329
25	5886	5304	4697	4432	4351
35	5096	4305	3822	3546	3564
45	4080	3262	2959	3267	3378
55	2905	2286	2575	2975	3110
65	1708	1521	2159	2602	2681
75	683	1021	1478	1734	1832
85	134	446	902	1262	1380
90	8	145	534	1042	1155
95	0	35	400	716	824
105	0	0	0	0	5
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	4502	25.01	26.69
0-40	7007	38.93	41.53
0-60	11989	66.61	71.06
0-90	16431	91.29	97.39
40-90	9424	52.36	55.86
60-90	4442	24.68	26.33
90-180	439	2.44	2.61
0-180	16871	95.73	100.00

** EFFICIENCY = 93.7% **

LUMINANCE SUMMARY - CD./SQ.M.

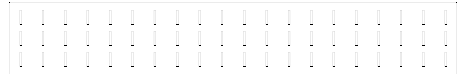
ANGLE	ALONG	45	ACROSS
45	7607	5542	6344
55	6676	5960	7217
65	5328	6807	8432
75	3480	7516	8244
85	2031	7718	9121

S/MH = .9
SC(ALONG) = 1.2, SC(ACROSS) = .9

CERTIFIED BY: *[Signature]* DATE: JUN 22, 1999
PREPARED FOR: ENERGY MASTERS
ST. PAUL, MN

TESTED IN ACCORDANCE TO IES PROCEDURES.

Power Strip Layout: 60 Fixtures



ESI Power Strip 1' x 8'
(6) 32W FO32 T8 Lamps
High Power Ballast (1.18)
LDD: 1.12
UPS: 1.37 watts/sq.foot
Illuminance: **79fc***

HID Layout: 60 Fixtures



HID High Bay Fixture
(1) 400W Metal Halide
LDD: 0.66
UPS: 2.79 watts/sq.foot
Illuminance: **80fc***

* Calculations made at 10,000hrs

Ordering Information

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

(Example 18PSEA632277H = 1'x8' Power Strip with an enhanced aluminum reflector, 6-32W lamps, 277 volts, and a high power ballast)

Size	Reflector	# Lamps	Lamp Watts	Voltage	Ballast
14PS - 1' x 4'	EA - Enhanced Alum	3	32	120	N - Normal
18PS - 1' x 8'	AA - Anodized Alum	4	54	277	H - High Ballast Factor
	WR - White Enamel	6		UNV	L - Low Ballast Factor
		8		480	