

2/22/2015

Highbay Fluorescent - Four Lamp T5

Low Profile Design



Project:	
Catalog#:	
Approved by:	

Description

HFLP series high-bay fluorescent fixture is a great energy saving alternative to traditional HID highbay fixtures. This fixture is optimized for maximum efficiency using T5 lamps.

Benefits

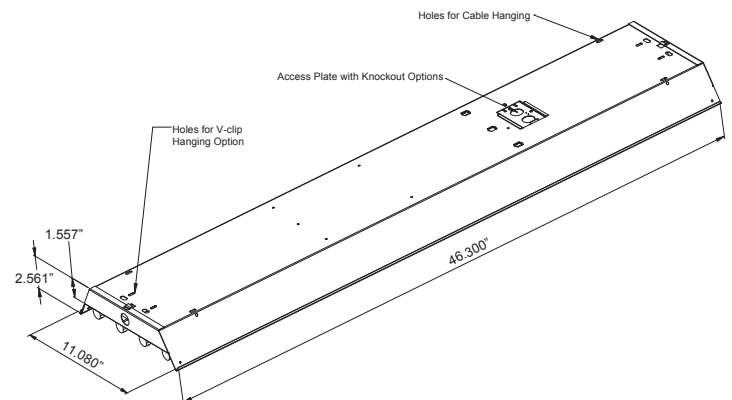
- Energy Saving Compared to HID systems
- Exceptional Color Rendering
- High System Efficiency
- Long Lamp Life
- Instant On/Re-strike Capability
- Howard Ballast and Howard Lamp as a system is covered by Howard Industries Warranty
- Quality Lamp holders
- Computer Designed Reflectors
- System Tested, Designed, Approved, and Manufactured by Howard Industries in Mendenhall Mississippi.
- Compliant with Safety and performance standards.

Applications

Warehouse	Cafeteria
Manufacturing Facility	Auditorium

Features

- Easy access ballast through removal of 1 screw and snap out reflector
- Access plate provides access to electrical wiring without the need to open the fixture
- Knock-outs for easy electrical wiring and assembly
- Factory Installed Occupancy Sensor option
- Lamp Installation option available
- Multiple power cord set options, (voltage, length, gage)
- Choice of 86% Standard Specular Aluminum Reflector, 95% Specular Enhanced Aluminum Reflector or 91% White Reflector
- Heavy Duty pre-painted steel construction
- Can be easily mounted by a single person
- Chain and V-Clip Hanging option
- Wire cable hanging option.
- UL Listed for Damp Locations



Specifications subject to change without notice.

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Ordering Information

Model Family	Reflector	No. of Lamps	Lamp Type/Wattage ⁽¹⁾	CRI/CCT	Ballast	Input Volts	Factory Installed Options	Cordset Options	T B A	Pack.
HFLP	E	4	54	A	PS	MV	00A	07	0	I
HFLP	E: Enhanced Specular Aluminum (95%) A: Specular Aluminum (86%) W: White reflective (91%)	4	T5 Lamps 54: F54T5HO	A: No Lamps CRI CCT F: 85 3000 G: 85 3500 H: 85 4100 I: 85 5000 J: 85 6500	PS: PRS T5	MV: 120-277v HV: 347-480v	000: No FIOs A: Occ Sensor ^{(2) (3)} I: Special Wiring Instructions	00: Standard Disconnect 01: 6' SJT 18/3, no plug 02: 10' SJT 18/3, no plug 03: 6' SJT 18/3 L5-15, twist lock 120v 04: 10' SJT 18/3 L5-15twist lock 120v 05: 6' SJT 18/3 5-15non twist lock 120v 06: 10' SJT 18/3 5-15non twist lock 120v 07: 6' SJT 18/3 L7-15 twist lock 277v 08: 10' SJT 18/3 L7-15 twist lock 277v 11: 16/3, no plug specify length 17: 18/3, no plug specify length 22: 6' SJT 16/3 L7-20 twist lock 277v 23: 6' SJT 18/3 L6-15 twist lock 240v *Other cordsets available, consult customer service		I: Single B: Bulk ⁽³⁾

(1) Lamp installation available.

(2) Occupancy Sensors should be used with programmed rapid start ballasts for maximum lamp life. Standard Occupancy Sensor requires neutral wired fixtures (ex. -120v or -277v).

For phase-to-phase voltage applications (240v) advise Customer Service at time of request.

(3) Bulk packaging is not available when occupancy sensor is ordered as a Factory Installed Option

Sample Ordering Number:

HFLP E 4 54 A PS MV 00A 07 I

HFLP Series Highbay Fluorescent

Enhanced Specular Aluminum Reflector

4-lamps (none installed)

F54T5HO Program Rapid Start Ballast

Multi-volt (120-277v)

Factory Installed Occupancy Sensor

6' SJT 18/3 L7-15 twist lock 277v Cordset

Single Packaging

RAPID SHIP MODEL

AVAILABLE FOR NEXT DAY SHIPMENT

- HFLPE454APSMV000000I

PS	Program Rapid Start T5 Ballast
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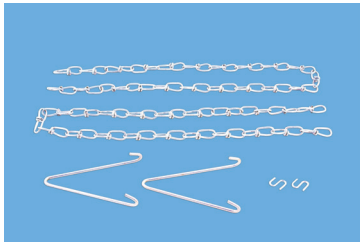
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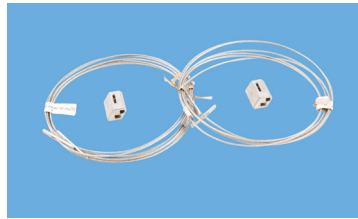
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Field Installed Accessories



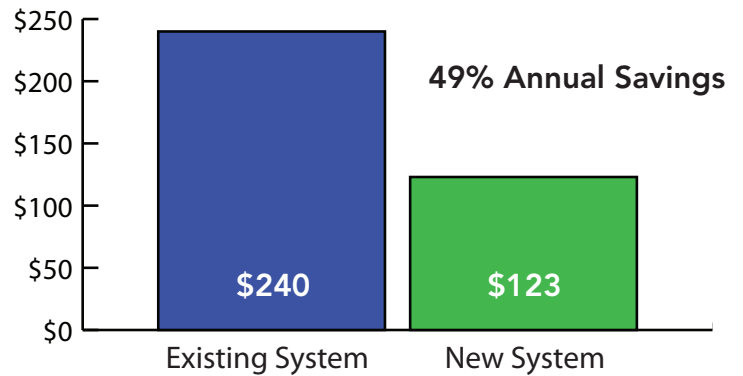
HF-2CV (2 foot)
HF-3CV (3 foot)
Hanging Chain & V-clips



HF-WCH (~5 foot)
Wire Cable Hanging Kit
(2 pcs per kit)

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Energy Cost Estimator					
		Existing System		New System	
		400W MH Highbay		HFLPE454APS Program Start T5 Ballast Fluorescent Highbay	
Hours burned per year	4368	Number of Fixtures	1	Number of Fixtures	1
Cost per kWh\$	0.12	Watts per Fixture (existing system)	458	Watts per Fixture (new system)	234
Energy Cost Estimation		Energy used per year (existing system)	\$240	Energy used per year (new system)	\$123
		Energy saving per year (per fixture)		\$117.00	



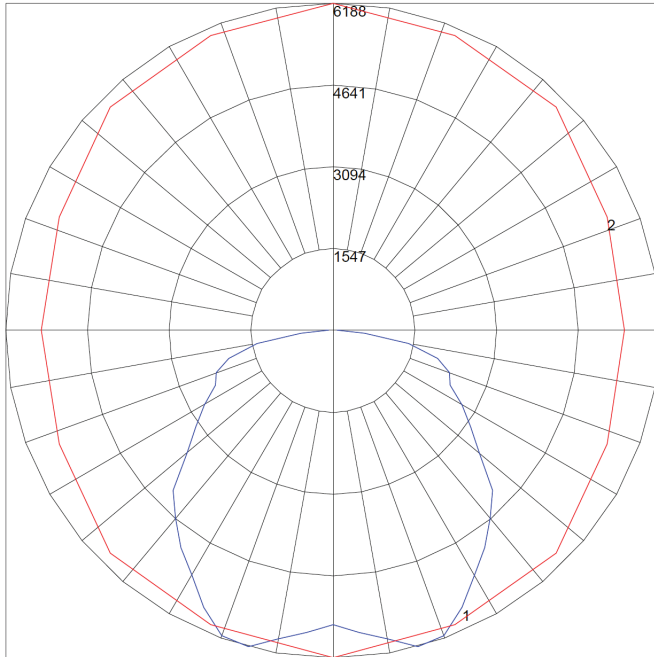
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Photometric Data - 4 Lamp T5 (HFLPE454)

Candela Polar Plot



HFLPE454
Test Report: HFLPE454.ies
Spacing Criteria (0-180): 1.30
Spacing Criteria (90-270): 1.40
Spacing Criteria (Diagonal): 1.48

Maximum Candela =6188.24

Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

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Luminaire Efficiencies*

Reflector Type	T5
Enhanced Specular	94%
Specular	89%
White	89%

*Luminaire efficiency is the ratio of light output emitted by the luminaire to the light output emitted by its lamps.

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fix
0-30	4799.77	24.00	25.60
0-40	7928.81	39.60	42.30
0-60	14083.98	70.40	75.10
0-90	18763.12	93.80	100.00
0-180	18763.12	93.80	100.00

Luminance Data (cd/Sq.m)

Angle In Degrees	Average 0-deg	Average 45-deg	Average 90-deg
45	15519	14795	14539
55	14987	13154	12273
65	13924	10904	11348
75	12228	10164	12336
85	8517	6310	5462

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	109	109	109	109	104	104	104	100	100	100	96	96	96	94
1	101	96	92	88	98	94	90	86	90	87	84	86	83	81	83	81	79	76
2	91	83	76	71	89	81	75	70	78	73	68	75	70	66	72	68	65	63
3	83	73	65	58	81	71	64	58	68	62	57	66	60	56	63	59	55	52
4	76	64	56	49	74	63	55	49	61	54	48	58	52	47	56	51	47	45
5	70	57	49	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
6	64	51	43	37	63	51	42	36	49	42	36	47	41	36	46	40	35	33
7	60	47	38	32	58	46	38	32	44	37	32	43	36	32	42	36	31	29
8	55	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
9	52	39	31	26	50	38	31	26	37	30	26	36	30	25	35	30	25	24
10	49	36	28	23	47	35	28	23	34	28	23	34	27	23	33	27	23	21

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