

DESCRIPTION

The F-Bay I8 series is an outstanding solution for high mounting height industrial or retail applications. The F-Bay I8 optic has been optimized to provide maximum performance from T8 lamps. Optional uplight component is provided to enable excellent ceiling uniformity. The I8s high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. The primary benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control. Primary applications include "big box" retail, shopping malls, light industrial, school gymnasiums, etc.

SPECIFICATION FEATURES

Construction

Specification grade full body housing, end plates and socket tracks are die formed cold rolled steel in 4' or 8' lengths. The housing features an integral ballast channel that adds strength and provides numerous KOs for easy installation.

Electrical

Class "P" ballasts are positively secured by mounting bolts. Rotor-lock Bi-Pin lampholders and optional top ballast access plate enables service from above without disturbing the internal optics. Optional modular power receptacle meets UL2459 and NEC 410.73 and is UL/cUL rated for make and break under load from outside the luminaire to speed maintenance. UL/cUL listed. Suitable for damp locations.

Finish

Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

Downlight/Uplight Optics

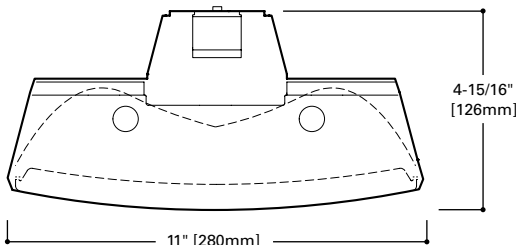
Optical modules are fully enclosed inside housing to protect against damage. Die formed reflectors are faceted for efficiency and control with two optical distributions – medium and wide. Medium beam optical modules utilize 95% specular aluminum finish. Open downlight design optimizes performance with uplight slots available as an option for nominal 8% uplight component. An optional attractive thin blade white baffle adds longitudinal shielding. A clear or frosted white acrylic lens is also available. Optional heavy duty wireguard can be used with or without the lens or baffle. Latched retention of shielding options (safety leader restraints) allow for easy access.

Mounting

The I8 series is suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

Options

Integral Occupancy Sensor available and provides from 600 sq. ft. (MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.



I8 SERIES

4' OR 8'
2 LAMPS

T5 Linear Fluorescent High-Bay Lighting System



ENERGY DATA

Input Watts:

EB Ballast
232=58
8T432=109

EB/Plus Ballast
232=73
8T432=147

ER Ballast
232=57
8T432=112

ER/Plus Ballast
232=74
8T432=144

Luminaire Efficacy Rating

LER = 83

Catalog Number: I8-232-UNV-UPL

**Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$2.90**

*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

**Consult Pre Sales Technical Support.

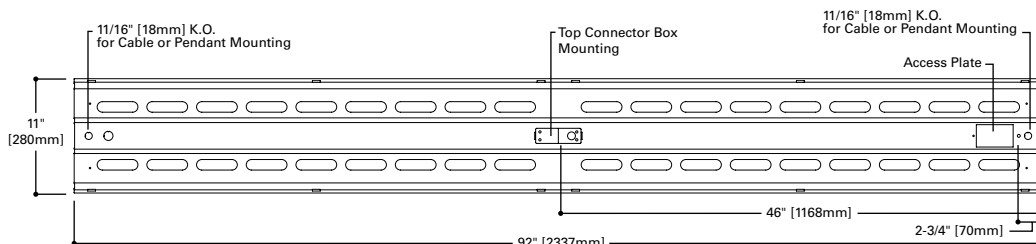
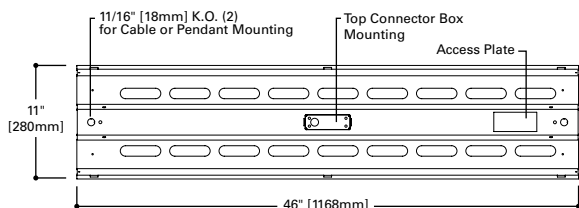
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT

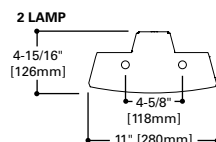
Safe and convenient means of disconnecting power.



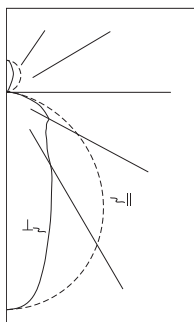
MOUNTING DATA



LAMP CONFIGURATIONS



PHOTOMETRICS



18-232-UNV-EB81
Electronic Ballast
F0332/735 Lamps
2800 Lumens

Spacing criterion:
(L) 1.2 x mounting
height, (⊥) 0.7 x
mounting height
Efficiency 93.9%

Test Report:
236P176C

LER = FL-83

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$2.90

Coefficients of Utilization

rc	Effective floor cavity reflectance									20%								
	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
RCR																		
0	110	110	110	110	106	106	106	106	100	100	100	94	94	94	88	88	88	86
1	101	97	94	90	98	94	91	88	89	86	84	84	82	80	79	78	76	74
2	93	86	80	75	90	83	78	74	79	74	71	75	71	68	71	68	65	63
3	85	76	69	64	82	74	68	63	70	65	61	67	62	59	63	60	57	54
4	79	68	61	55	76	67	60	54	63	57	53	60	55	51	57	53	50	48
5	73	62	54	48	70	60	53	48	57	51	47	55	50	45	52	48	44	42
6	68	56	49	43	66	55	48	42	53	46	41	50	45	41	48	43	40	38
7	63	52	44	39	61	50	43	38	48	42	37	46	41	37	44	39	36	34
8	59	47	40	35	57	46	39	35	45	38	34	43	37	33	41	36	33	31
9	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28
10	52	41	34	29	51	40	33	29	39	33	28	37	32	28	36	31	28	26

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1776	31.7	33.8
0-40	2615	46.7	49.7
0-60	3988	71.2	75.9
0-90	4789	85.5	91.1
0-180	5257	93.9	100.0

Candela

Angle	Along L	45°	Across L
0	2836	2836	2836
5	2817	2803	2776
10	2773	2673	2494
15	2702	2386	2046
20	2604	2024	1679
25	2479	1701	1378
30	2329	1419	1158
35	2153	1179	918
40	1956	964	805
45	1742	761	719
50	1512	643	673
55	1271	551	655
60	1027	492	601
65	782	457	510
70	547	368	392
75	331	264	242
80	150	133	160
85	28	31	4
90	0	5	5

Modular F-Bay Power Supply Option

Cooper Lighting Solutions' F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixtures power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time-saver in installation – **simply plug & power.**



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

No internal fixture access required for installation or disconnecting power

Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap

ORDERING INFORMATION

SAMPLE NUMBER: 8T18-232-TBW-UNV-EB82/PLUS-UPL-U

<p>Length Blank=4' Length 8T=8' Length</p> <p>Series I8=T8 Industrial</p> <p>Mounting Arrangement Blank=Stand Alone R=Continuous Row Mount</p> <p>No. of Lamps Z=2 Lamps</p> <p>Lamp Type 32=32W T8 (4') Lamps</p> <p>Distribution Optic Blank=Medium (Specular Aluminum) G=Wide (High Reflectance White)</p> <p>Shielding Options Blank=Open TBW=Thin White Baffle FL=Frosted Acrylic Lens & Frame⁽²⁾ CL=Clear Acrylic Lens & Door Frame WG=Heavy Duty Wireguard</p>	<p>Voltage⁽³⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage⁽⁶⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt</p> <p>Options I8 Lamps Installed L8930=T8 Lamp, 90CRI 3000K L8935=T8 Lamp, 90CRI 3500K L8941=T8 Lamp, 90CRI 4100K L8950=T8 Lamp, 90CRI 5000K GL=Single Element Fuse GM=Double Element Fuse EL=Emergency Installed⁽³⁾</p>	<p>Ballast Type T8 Systems EB8 =T8 Electronic Instant Start.⁽⁵⁾ Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB8 /PLUS= T8 Electronic Instant Start.^{(5), (6)} High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 =T8 Electronic Program Rapid Start.⁽⁶⁾ Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 /PLUS=T8 Electronic Program Start. High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3</p> <p>DIM=Dimming (ballast must be specified)</p>	<p>Options NUA=No Uplight Apertures In Housing (Cannot be combined w/UPL) UPL=Uplight Apertures PI/CPI=Plug-In (1, 2 or 3) TILW=Tandem Inline Wiring MWS=Modular Wiring System⁽¹⁰⁾ MS=360° or 180° Motion Sensor, 120 through 347, or 480V⁽⁹⁾ MP=Modular Power Receptacle (Used for all Cord or Cord and Plug options)^{(11), (11)}</p> <p>Accessories (order separately) I5/I8-SPM=Single Monopoint Hanger w/Hub FH-1=Fixture Hook FL-1=Fixture Loop SHK=Hook w/ Safety Screw AYC-CHAIN/SET/U=(2) Hooks, 36" Chain Sets w/S-Hooks⁽⁸⁾ TOGGLE-=Single Toggle, #2 Cable (Specify 10' or 30') LOOP=Loop Hanger, #2 Cable (Specify 10' or 30') MC6=6' Modular Power Cord MPC6=6' Modular Power Cord & Plug (Specify Voltage) MMS=360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V)⁽¹¹⁾ MDS6=6' Modular Power Cord with MWS 27DS18/2G06MP Connector⁽¹¹⁾</p> <p>Door Frames (for Field Installation) I8-FRM/LENS PK=Frosted Acrylic Lens & Frame (I8) I8-FRM/CL PK=Clear Acrylic Lens & Frame (I8) WG/I8-4FT-B=Heavy Duty Wireguard (I8) BAFFLE 4FT I8=Thin White Blade Baffle (I8)</p>	<p>Packaging U=Unit Pack PAL=Palletized Out of Carton PALC=Palletized In Carton</p>
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NOTES: ⁽¹⁾Requires use of MC_ or MPC_cord accessories, specify voltage for plugs. ⁽²⁾Use with wide distribution optic only. ⁽³⁾Voltage must be specified when ordered with plugs, motion sensor or emergency ballasts. ⁽⁴⁾E8T ballast systems suitable for operation in ambient environments up to 104°F (40°C). ⁽⁵⁾ER8 and EB8 ballast systems suitable for operation in ambient environments up to 122°F (50°C) in open upright configurations. ⁽⁶⁾2 lamp ballast configurations only in T5 UNC versions. ⁽⁷⁾3 lamp ballast configurations in EB/PLUS only for T8 UNC. ⁽⁸⁾EHT ballast systems suitable for ambient environments not to exceed 149°F (65°C) in open upright configurations and less lens option. ⁽⁹⁾Not for use in gymnasiums or similar recreational facilities. ⁽¹⁰⁾When ordering MS option, specify UNV (for 120 or 277V), 347 or 480V. ⁽¹¹⁾Cannot be combined with Modular Power Receptacle (MP). ⁽¹¹⁾For MWS with MP, choose MP in fixture logic and then choose MWS accessory such as MDS6.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

PI OPTION ORDERING INFORMATION

Catalog Number Suffix	Number of Circuits	Circuit Wired To Ballast
PI 1 BLK	1	Black
PI 2 BLU	2	Blue
PI 2 BLK	2	Black
PI 3 RED	3	Red
PI 3 BLU	3	Blue
PI 3 BLK	3	Black

Catalog Numbering System

The PI System is available in sections up to 8' in length for continuous row wiring by simply plugging the sections together. Each PI section is factory wired to the ballast leads. Color coding of wires is as follows:

- PI-1** = One Circuit - 2 Wires: one black, one white
- PI-2** = Two Circuits - 3 Wires: one black, one blue, one white
- PI-3** = Three Circuits - 4 wires: one black, one blue, one red, one white

When ordering the PI2/PI3 System it is necessary to specify the number of fixtures required for each circuit. Each circuit in fixture must be ordered as a separate line item, with a different hot wire color specified. All wiring to external feeds, using cord or cord & plug, are responsibility of installing licensed contractor. Cord and cord & plug sets must be ordered separately if PI option is chosen.

PI1 - Single Circuit Plug-In

SAMPLE NUMBER: PI1BLK-WG

PI1= Single Circuit	NG= No Ground (ground provided by fixture body)
BLK=Black Hot	WG= With Ground (separate ground wire in harness)

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PI2 - Two Circuit Plug-In

SAMPLE NUMBER: PI2BLK-WG

PI2= Two Circuit	Leave Blank=Single Neutral
BLK=Black Hot	2NEU=Two Neutrals
BLU=Blue Hot	NG= No Ground (ground provided by fixture body)
Leave Blank=Single Neutral	WG= With Ground (separate ground wire in harness)
/WHT=White Neutral	
/GRY=Gray Neutral	

PI3 - Three Circuit Plug-In

SAMPLE NUMBER: PI3BLK-WG

PI3= Three Circuit	Leave Blank=Single Neutral
BLK=Black Hot	2NEU=Two Neutrals
BLU=Blue Hot	NG= No Ground (ground provided by fixture body)
RED=Red Hot	WG= With Ground (separate ground wire in harness)
Leave Blank=Single Neutral	
/WHT=White Neutral	
/GRY=Gray Neutral	

SHIPPING DATA

Catalog No.	Wt.
18-232-UNV-UPL	15 lbs.
8T18-232-UNV-UPL	30 lbs.