

# COOPER LIGHTING - METALUX®

## 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 I8's 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

### A ... Construction

Specification grade full body housing, end plates and socket tracks are die formed 20 gauge 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.

### B ... 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.

### C ... Finish

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

### D ... 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.

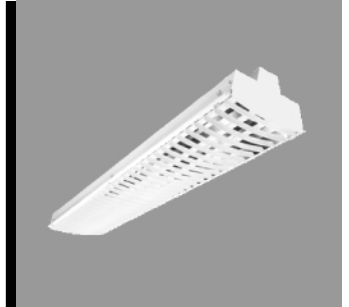
### Mounting

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

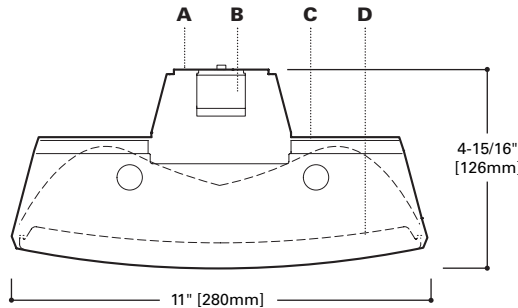
Integral Occupancy Sensor available and provides from 600 sq. ft.(MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.

Catalog #		Type
Project		
Comments		Date
Prepared by		

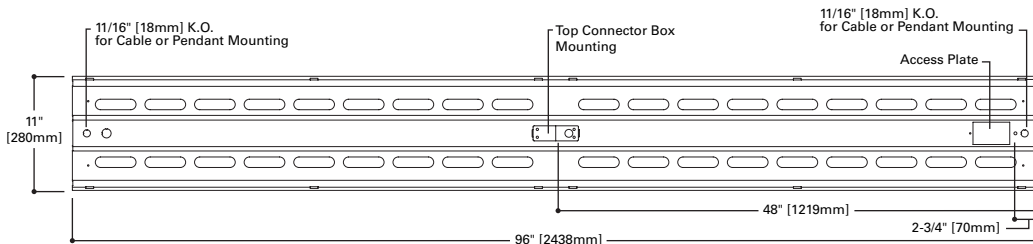
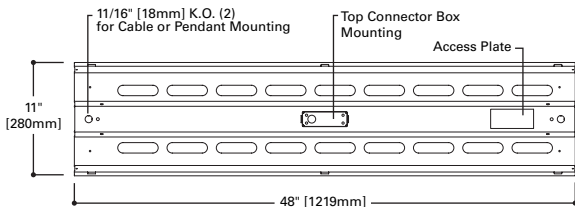


## F-BAY I8 Series

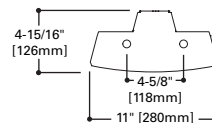
4' or 8'  
2 LAMPS  
Retail/Light Industrial  
T8 Linear Fluorescent Hi-Bay  
Lighting System



## MOUNTING DATA



## LAMP CONFIGURATIONS



## ENERGY DATA

### 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

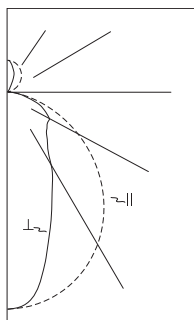
\*\* Consult Pre Sales Technical Support.

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

**LINEAR DISCONNECT**  
Safe and convenient means of disconnecting power



PHOTOMETRICS



**I8-232-UNV-EB81**  
Electronic Ballast  
F0332/735 Lamps  
2800 Lumens

Spacing criterion:  
(H) 1.2 x mounting  
height, (L) 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																				
	80%							70%							20%						
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
<b>0</b>	110	110	110	110	106	106	106	106	100	100	100	94	94	94	88	88	88	86			
<b>1</b>	101	97	94	90	98	94	91	88	89	86	84	84	82	80	79	78	76	74			
<b>2</b>	93	86	80	75	90	83	78	74	79	74	71	75	71	68	71	68	65	63			
<b>3</b>	85	76	69	64	82	74	68	63	70	65	61	67	62	59	63	60	57	54			
<b>4</b>	79	68	61	55	76	67	60	54	63	57	53	60	55	51	57	53	50	48			
<b>5</b>	73	62	54	48	70	60	53	48	57	51	47	55	50	45	52	48	44	42			
<b>6</b>	68	56	49	43	66	55	48	42	53	46	41	50	45	41	48	43	40	38			
<b>7</b>	63	52	44	39	61	50	43	38	48	42	37	46	41	37	44	39	36	34			
<b>8</b>	59	47	40	35	57	46	39	35	45	38	34	43	37	33	41	36	33	31			
<b>9</b>	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28			
<b>10</b>	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
<b>0-30</b>	1776	31.7	33.8
<b>0-40</b>	2615	46.7	49.7
<b>0-60</b>	3988	71.2	75.9
<b>0-90</b>	4789	85.5	91.1
<b>0-180</b>	5257	93.9	100.0

Candela

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

SHIPPING INFORMATION

Catalog No.	Wt.
I8-232-UNV-UPL	15 lbs.
8TI8-232-UNV-UPL	30 lbs.

ORDERING INFORMATION

SAMPLE NUMBER: 8TI8-232-TBW-UNV-EB82/PLUS-UPL-U

<p><b>Length</b> Blank=4' Length 8T=8' Length</p>	<p><b>Series</b> I8=T8 Industrial</p>	<p><b>Mounting Arrangement</b> Blank=Stand Alone R=Continuous Row Mount</p>	<p><b>No. of Lamps</b> 2=2 Lamps</p>	<p><b>Lamp Type</b> 32=32W T8 (4') Lamps</p>	<p><b>Distribution Optic</b> Blank=Medium (Specular Aluminum) G=Wide (High Reflectance White)</p>	<p><b>Shielding Options</b> Blank=Open TBW=Thin White Baffle FL=Frosted Acrylic Lens &amp; Frame<sup>(2)</sup> CL=Clear Acrylic Lens &amp; Frame ASY= Asymmetric Directional Louver<sup>(2)</sup> WG=Heavy Duty Wireguard</p>	<p><b>Voltage<sup>(3)</sup></b> UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage 120V=120 Volt 277V=277 Volt 347V=347 Volt 480V=480 Volt</p>	<p><b>Options</b> I8 Lamps Installed L8830=T8 Lamp, 85CRI 3000K L8835=T8 Lamp, 85CRI 3500K L8841=T8 Lamp, 85CRI 4100K L8850=T8 Lamp, 85CRI 5000K GL=Single Element Fuse GM=Double Element Fuse EL=Emergency Installed<sup>(3)</sup></p>	<p><b>Ballast Type</b> <b>T8 Systems</b> EB8 =T8 Electronic Instant Start.<sup>(4)</sup> Total Harmonic Distortion &lt; 10% No. of Ballast 1, 2 or 3 EB8 /PLUS= T8 Electronic Instant Start.<sup>(4)</sup> High Ballast Factor &gt;1.15. Total Harmonic Distortion &lt; 10% No. of Ballast 1, 2 or 3 ER8 =T8 Electronic Program Rapid Start.<sup>(4)</sup> Total Harmonic Distortion &lt; 10% No. of Ballast 1, 2 or 3 ER8 /PLUS= T8 Electronic Program Rapid Start. High Ballast Factor &gt;1.15. Total Harmonic Distortion &lt; 10% No. of Ballast 1, 2 or 3 DIM=Consult Factory<sup>(9)</sup></p>	<p><b>Options</b> NUA=No Uplight Apertures In Housing (Cannot be combined w/UPL) UPL=Uplight Apertures PI/CPI=Plug-In (1, 2 or 3) (see ordering information) TILW=Tandem Inline Wiring MWS=Modular Wiring System MS=Aisle Coverage Motion Sensor<sup>(5)</sup> MSO=360° Coverage Motion Sensor<sup>(5)</sup> C3=3' Power Cord C6=6' Power Cord MP=Modular Power Receptacle<sup>(11)(3)</sup> PC3=3' Power Cord &amp; Plug (Specify Voltage) TAP=Top Access Plate<sup>(7)</sup> TCBP=Top Connector Box Plate<sup>(6)</sup></p>	<p><b>Packaging</b> U=Unit Pack PAL=Palletized Out of Carton PALC=Palletized In Carton</p>
<p><b>Accessories</b> (order separately) TCB=Top Connector Box RH-1=Retrofit Hanger FH-1=Fixture Hook FL-1=Fixture Loop SHK=Hook w/ Safety Screw PC3=3' Power Cord &amp; Plug (Specify Voltage) PC6=6' Power Cord &amp; Plug (Specify Voltage) AYC-CHAIN/SET/U=(2) Hooks, 36" Chain Sets w/S- Hooks<sup>(8)</sup> GRIPPLE TOGGLE=Single Toggle, #2 Cable (Specify 10' or 30') GRIPPLE LOOP=Loop Hanger, #2 Cable (Specify 10' or 30') MC6=6' Modular Power Cord MPC6=6' Modular Power Cord &amp; Plug (Specify Voltage) MMS-CPD1200H=Aisle Motion Sensor, Box, Modular Power Receptacle (120/277V) MMS-CPD500H=360° Motion Sensor, Box, Modular Power Receptacle (120/277V) <b>Door Frames</b> (for Field Installation) I8-FRM/LENS PK=Frosted Acrylic Lens &amp; Frame (I8) I8-FRM/CL PK=Clear Acrylic Lens &amp; Frame (I8) WG/I8-4FT-B=Heavy Duty Wireguard (I8) BAFFLE 4FT I8 (White) 11571919=Thin White Blade Baffle (I8) BAFFLE 4FT I8=Thin White Blade Baffle (I8) 90801PPK=Asymmetrical Directional Louver</p>											

NOTES: <sup>(1)</sup>Requires use of MC\_ or MPC\_cord accessories, specify voltage for plugs. <sup>(2)</sup>Use with wide distribution optic only. <sup>(3)</sup>Voltage must be specified when ordered with plugs, motion sensors or emergency ballasts. <sup>(4)</sup>ER8 and EB8 ballast systems suitable for operation in ambient environments up to 122°F (50°C) in open upright configurations. <sup>(5)</sup>Specify voltage. <sup>(6)</sup>For use with Top Connector Box options. See accessories. <sup>(7)</sup>TAP option available with a maximum of two ballasts, including EM battery pack. <sup>(8)</sup>Not for use in gymnasiums or similar recreational facilities. <sup>(9)</sup>Dimming ballast must be specified at time of order.

**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**

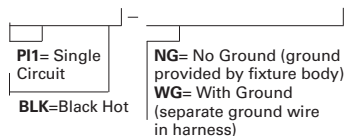
The PI System is available in sections up to 8' in length for continuous row wiring by simply plugging the sections together. Each PI section is factory wired to the ballast leads. Color coding of wires is as follows:

- 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**

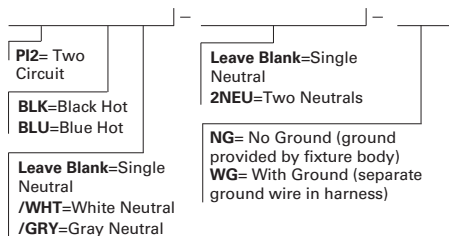
SAMPLE NUMBER: PI1BLK-WG



For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

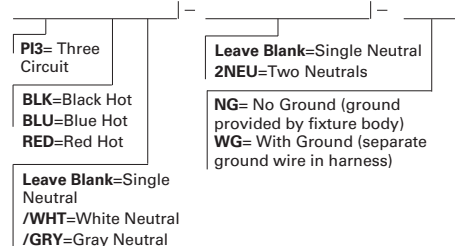
**PI2 - Two Circuit Plug-In**

SAMPLE NUMBER: PI2BLK-WG



**PI3 - Three Circuit Plug-In**

SAMPLE NUMBER: PI3BLK-WG



**Modular F-Bay Power Supply**

Cooper Lighting's F-Bay Modular Power Supply option 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 dustcap