

## DESCRIPTION

The F-Bay I5 series is an outstanding solution for high mounting height industrial or retail applications. The F-Bay I5 optic has been optimized to provide maximum performance from T5 lamps. Optional uplight component is provided to enable excellent ceiling uniformity. The I5's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to HID. 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. An 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 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 optics (safety leader restraints) allows for easy access.

### Mounting

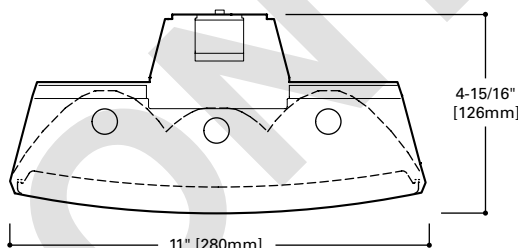
The I5 series is suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

### Options

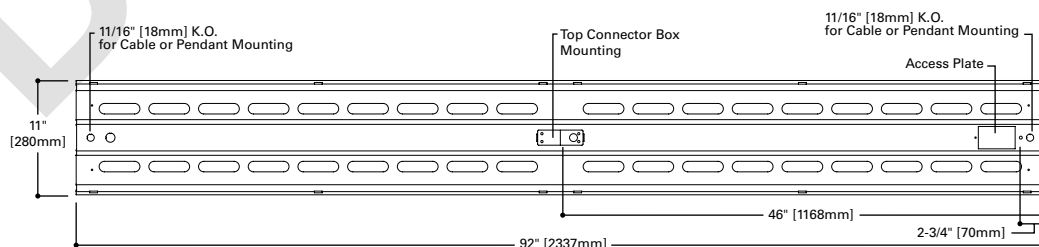
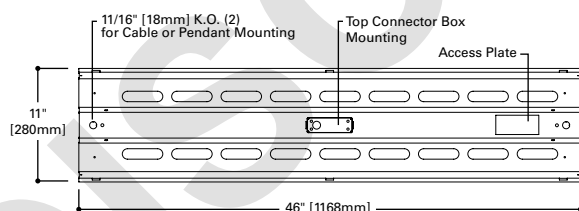
Integral Occupancy Sensor available and provides from 600 sq. ft. (MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.

### Compliance

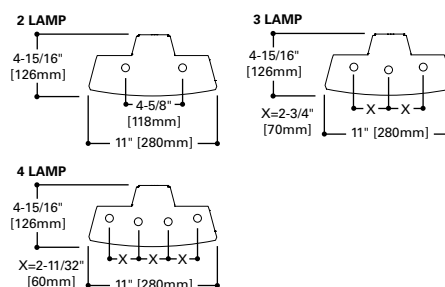
Options to meet Buy American and other domestic preference requirements.



## MOUNTING DATA



## LAMP CONFIGURATIONS



## ENERGY DATA

Input Watts:  
EHT Ballast  
347T5=(165)  
447T5=(205)

Luminaire Efficacy Rating  
LER = 83

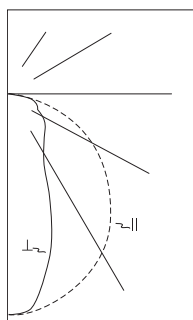
Catalog Number: I5-447T5-UP  
Yearly Cost of 1000 lumens,  
3000 hrs at .08 KWH = \$2.89

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

\*\*Consult Pre Sales Technical Support.

**LINEAR DISCONNECT**  
Designed to provide safe and convenient means of disconnecting power

## PHOTOMETRICS

**I5-347T5-UNV**

(1) Electronic Ballast  
(3) F54T5-47W lamps  
4285 lumens

Spacing criterion:  
(II) 1.2 x mounting  
height, (L) 0.7 x  
mounting height

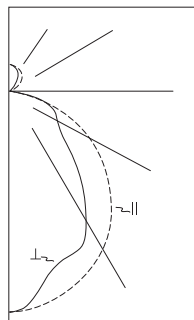
Efficiency 95.4%

Test Report:  
I5-347T5-UNV-  
EBT1.IES  
LER=83

Yearly Cost of 1000  
lumens, 3000 hrs at  
.08 KWH = \$2.89

**Candela**

Angle	Along II	45°	Across ⊥
0	7706	7706	7706
5	7636	7746	7736
10	7524	7300	6793
15	7348	6475	5637
20	7106	5564	4235
25	6803	4467	2965
30	6439	3341	2421
35	6029	2483	2144
40	5549	2088	1912
45	5011	1807	1744
50	4436	1564	1618
55	3811	1369	1455
60	3142	1206	1221
65	2458	985	1067
70	1788	771	1029
75	1128	663	801
80	546	429	201
85	120	6	4
90	2	2	0

**I5-447T5-UNV-UPL**

(1) Electronic Ballast  
(4) F54T5-47W lamps  
4285 lumens

Spacing criterion:  
(II) 1.2 x mounting  
height, (L) 1.1 x  
mounting height

Efficiency 98.9%

Test Report:  
I5-447T5-UNV-  
EBT1-UPL.IES

LER=83

Yearly Cost of 1000  
lumens, 3000 hrs at  
.08 KWH = \$2.89

**Candela**

Angle	Along II	45°	Across ⊥
0	7137	7137	7137
5	7068	6972	6899
10	6962	6567	6324
15	6792	6065	5830
20	6570	5626	5690
25	6284	5356	5539
30	5945	5186	5084
35	5555	4888	4214
40	5112	4324	3464
45	4619	3518	2769
50	4082	2835	2250
55	3504	2182	1916
60	2893	1685	1740
65	2263	1351	1640
70	1629	1165	1498
75	1033	1001	947
80	516	520	420
85	141	47	5
90	7	19	11

**Coefficients of Utilization**

Effective floor cavity reflectance												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	
RCR																			
0	114	114	114	114	111	111	111	111	106	106	106	101	101	101	97	97	97	95	
1	105	101	97	94	102	99	95	92	95	92	90	91	89	87	88	86	84	82	
2	96	89	83	79	94	88	82	78	84	80	76	81	77	74	78	75	72	71	
3	89	80	73	67	87	78	72	66	75	70	65	73	68	64	71	66	63	61	
4	82	72	64	58	80	70	63	58	68	62	57	66	61	56	64	59	56	54	
5	76	65	57	51	74	64	57	51	62	55	51	60	54	50	58	53	49	48	
6	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	49	44	43	
7	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39	
8	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	35	
9	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32	
10	55	43	36	32	54	43	36	32	42	36	32	41	35	31	40	35	31	30	

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	4705	36.6	38.4
0-40	6802	52.9	55.5
0-60	10248	79.7	83.6
0-90	12259	95.4	100.0
0-180	12259	95.4	100.0

**Luminance Data**

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	21700	7825	7552
55	20346	7309	7768
65	17810	7137	7731
75	13346	7844	9477
85	4216	211	141

**Coefficients of Utilization**

Effective floor cavity reflectance													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		
RCR																				
0	116	116	116	116	112	112	112	112	106	106	106	99	99	99	94	94	94	91		
1	107	102	98	95	103	99	96	93	94	91	88	89	86	84	84	82	80	78		
2	97	90	84	78	94	87	82	77	83	78	74	78	74	71	74	71	68	66		
3	89	79	72	66	86	77	70	65	73	68	63	70	65	61	66	62	59	56		
4	82	71	63	56	79	69	61	56	66	59	54	63	57	53	60	55	51	49		
5	76	64	55	49	73	62	54	48	59	52	47	56	51	46	54	49	45	43		
6	70	58	49	43	68	56	48	43	54	47	42	51	45	41	49	44	40	38		
7	65	52	44	38	63	51	43	38	49	42	37	47	41	36	45	40	36	34		
8	61	48	40	34	59	47	39	34	45	38	33	43	37	33	42	36	32	30		
9	57	44	36	31	55	43	36	31	42	35	30	40	34	30	39	33	29	27		
10	53	41	33	28	52	40	33	28	39	32	28	37	31	27	36	31	27	25		

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	4990	29.1	29.4
0-40	7952	46.4	46.9
0-60	12913	75.3	76.2
0-90	15640	91.3	92.3
0-180	16947	98.9	100.0

**Luminance Data**

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	20003	15235	11991
55	18707	11649	10229
65	16397	9789	11883
75	12222	11843	11204
85	4954	1651	176

**Modular F-Bay Power Supply Option**

Cooper Lighting's 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 fixture's 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: 8TI5-354T5-TBW-UNV-EBT2-UPL-U

<b>Domestic Preferences</b> <sup>(12)</sup> <b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act <b>TAA</b> =Trade Agreements Act	<b>Length</b> <b>Blank</b> =4' Length <b>8T</b> =8' Length	<b>Series</b> <b>I5</b> =T5 Industrial	<b>Mounting Arrangement</b> <b>Blank</b> =Stand Alone <b>R</b> =Continuous Row Mount	<b>No. of Lamps</b> 2=2 Lamps 3=3 Lamps 4=4 Lamps	<b>Lamp Type</b> <b>47T5</b> =47W T5 HO (4') Lamps (48")	<b>Distribution Optic</b> <b>Blank</b> =Medium (Specular Aluminum) <b>G</b> =Wide (High Reflectance White)	<b>Shielding Options</b> <b>Blank</b> =Open <b>TBW</b> =Thin White Baffle <b>FL</b> =Frosted Acrylic Lens & Frame <sup>(2)</sup> <b>CL</b> =Clear Acrylic Lens & Door Frame <b>WG</b> =Heavy Duty Wireguard	<b>Voltage</b> <sup>(3)</sup> <b>UNV</b> =Universal 120/277 Volt <b>120V</b> =120 Volt <b>277V</b> =277 Volt	<b>Ballast Type</b> <b>T5 Systems</b> <b>EBT</b> =T5HO Linear Electronic Start High Ambient. Total Harmonic Distortion < 10% <sup>(5)</sup> No. of Ballast 1, 2 or 3	<b>Options</b> <b>NUA</b> =No Uplight Apertures In Housing <sup>(8)</sup> <b>UPL</b> =Uplight Apertures <b>PI/CPI</b> =Plug-In (1, 2 or 3) <b>TILW</b> =Tandem Inline Wiring <b>MWS</b> =Modular Wiring System <b>MS</b> =360° or 180° Motion Sensor installed, 120 through 277 <sup>(6)</sup> <b>MP</b> =Modular Power Receptacle (Used for all Cord or Cord and Plug options) <sup>(1)</sup>	<b>Packaging</b> <b>U</b> =Unit Pack <b>PAL</b> =Palletized Out of Carton <b>PALC</b> =Palletized In Carton
								<b>Accessories</b> (order separately) <sup>(13)</sup> <b>I5/I8-SPM</b> =Single Monopoint Hanger w/Hub <b>FH-1</b> =Fixture Hook <b>FL-1</b> =Fixture Loop <b>SHK</b> =Hook w/ Safety Screw <b>AYC-CHAIN/SET/U</b> =(2) Hooks, 36" Chain Sets w/S-Hooks <sup>(7)</sup> <b>TOGGLE</b> -=Single Toggle, #2 Cable (Specify 10' or 30' - Requires two per fixture) <b>LOOP</b> -=Loop Hanger, #2 Cable (Specify 10' or 30') <b>MC6</b> =6' Modular Power Cord <b>MPC6</b> =6' Modular Power Cord & Plug (Specify Voltage) <b>MMS</b> =360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) <sup>(1)</sup> <b>MDS6</b> =6' Modular Power Cord with MWS 27DS18/2G06MP Connector <sup>(8)</sup> <b>Door Frames</b> (for Field Installation) <b>I5-FRM/LENS</b> =Frosted Acrylic Lens & Frame <b>I5-FRM/CL PK</b> =Clear Acrylic Lens & Frame <b>WG/I5-4FT-B</b> =Heavy Duty Wireguard <b>90800PPK</b> =Thin White Blade Baffle <b>90801PPK</b> =Asymmetrical Directional Louver			

**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 sensor or emergency ballasts. <sup>(5)</sup>EHT ballast systems suitable for operation in ambient environments not to exceed 149°F (65°C) in open upright configurations and less lens option. <sup>(6)</sup>When ordering MS option, specify UNV (for 120 or 277V). <sup>(7)</sup>Not for use in gymnasiums or similar facilities. <sup>(8)</sup>Not compatible with UPL option. <sup>(9)</sup>For MWS with MP, choose MP in fixture logic and then choose MWS accessory such as MDS6.

<sup>(12)</sup> Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

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

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

## PI2 - Two Circuit Plug-In

**SAMPLE NUMBER: PI2BLK-WG**

**P12**= Two Circuit

**BLK**=Black Hot  
**BLU**=Blue Hot

**Leave Blank**=Single Neutral  
**/WHT**=White Neutral  
**/GRY**=Gray Neutral

**Leave Blank**=Single Neutral  
**2NEU**=Two Neutrals

**NG**= No Ground (ground provided by fixture body)  
**WG**= With Ground (separate ground wire in harness)

### PI3 - Three Circuit Plug-In

**SAMPLE NUMBER: PI3BLK-WG**

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

## SHIPPING DATA

Catalog No.	Wt.
I5-347T5-TBW-UPL	15 lbs.
8TI5-347T5-TBW-UPL	30 lbs.