

COOPER LIGHTING - METALUX®

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 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. Rotorlock 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

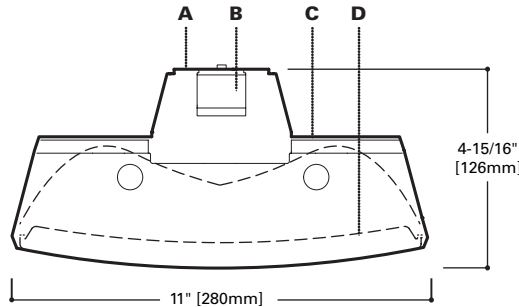
Optical modules are fully enclosed inside housing to protect against damage. Die formed reflectors are faceted with two optical distributions: medium and wide. Medium beam optical modules utilize 95% specular aluminum finish. Open downlight design optimizes performance with uplight slots available as 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) allow for easy access.

Mounting

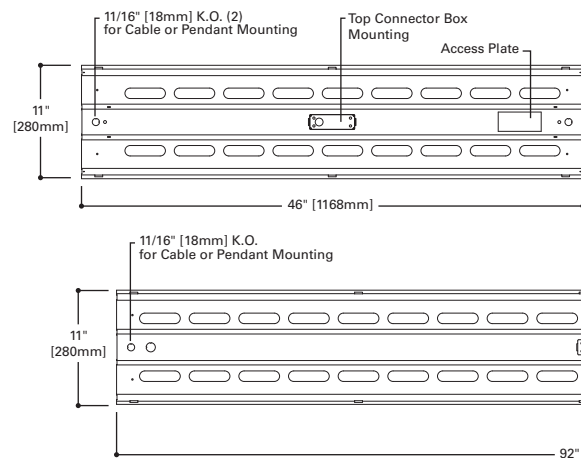
The I5 series is suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

Options

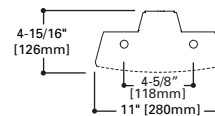
Integral Occupancy Sensor available and provides from 600 sq. ft. (MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.



MOUNTING DATA



LAMP CONFIGURATIONS



ENERGY DATA

Input Watts:
EB Ballast & T5HO Lamps
 254T5 = (117)
 8T254T5 = (229)
 Luminaire Efficacy Rating
LER =68
Catalog Number: I5-254T5-TBW-UPL

**Yearly Cost of 1000 lumens,
 3000 hrs at .08 KWH = \$3.55**

* 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

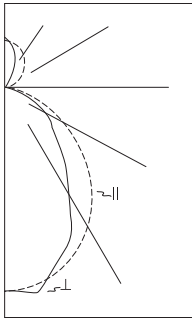


F-BAY I5 Series

**4' OR 8'
 2 LAMPS**
**Retail/Light Industrial
 T5 Linear Fluorescent Hi-Bay
 Lighting System**



PHOTOMETRICS



I5-254T5-UPL
 Electronic Ballast
 (2) F54T5/HO/830K lamps
 4400 lumens
 Spacing criterion:
 (||) 1.2 x mounting height, (⊥) 1.1 x mounting height
 Efficiency 94.1%
 Test Report:
 I5254UPL.IES
 LER =69
 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.48

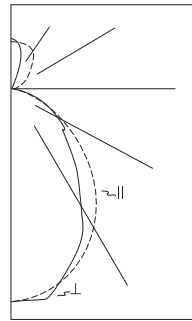
Candela				
Angle	Along	45°	Across ⊥	
0	3354	3354	3354	
5	3332	3354	3360	
10	3285	3370	3391	
15	3207	3300	3155	
20	3096	3060	2900	
25	2954	2833	2704	
30	2779	2599	2287	
35	2575	2336	1875	
40	2343	1922	1622	
45	2087	1551	1345	
50	1811	1297	1147	
55	1522	1025	999	
60	1225	819	872	
65	926	705	621	
70	639	501	421	
75	386	289	225	
80	184	119	41	
85	42	14	12	
90	1	12	12	

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%				70%				50%				20%					
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
0	109	109	109	109	106	106	106	106	99	99	99	92	92	92	86	86	86	83
1	102	98	95	92	98	95	92	89	89	87	85	84	82	80	79	77	76	74
2	94	88	82	78	91	85	80	76	80	76	73	75	72	69	71	69	66	64
3	87	78	72	67	84	76	70	65	72	67	63	68	64	61	64	61	58	56
4	80	70	63	58	77	68	62	57	65	59	55	61	57	53	58	54	51	49
5	74	63	55	50	71	61	54	49	58	52	47	55	50	46	52	48	45	43
6	68	57	49	44	66	55	48	43	53	46	42	50	45	41	48	43	40	38
7	63	51	44	38	61	50	43	38	48	42	37	46	40	36	43	39	35	33
8	58	46	39	34	56	45	38	33	43	37	32	41	36	32	39	35	31	29
9	54	42	34	29	52	41	34	29	39	33	28	37	32	28	36	31	27	25
10	50	38	31	26	48	37	31	26	36	30	25	34	29	25	33	28	24	23

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2543	28.9	30.7
0-40	3964	45.0	47.9
0-60	6296	71.5	76.0
0-90	7340	83.4	88.6
0-180	8281	94.1	100.0



I5-254T5-TBW-UPL
 (2) Electronic Ballasts
 (2) F54T5/HO/830K lamps
 4400 lumens
 Spacing criterion:
 (||) 1.1 x mounting height, (⊥) 1.0 x mounting height
 Efficiency 90.7%
 Test Report:
 I5A254TBWUPL.IES
 LER =68
 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$3.55

Candela				
Angle	Along	45°	Across ⊥	
0	3503	3503	3503	
5	3475	3476	3485	
10	3387	3462	3516	
15	3249	3358	3272	
20	3084	3083	2986	
25	2878	2790	2729	
30	2633	2508	2279	
35	2373	2198	1885	
40	2093	1811	1611	
45	1788	1470	1317	
50	1469	1216	1116	
55	1162	950	1027	
60	858	760	857	
65	572	651	612	
70	370	467	443	
75	245	276	248	
80	145	175	66	
85	62	103	34	
90	0	52	22	

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																	
	80%				70%				50%				20%					
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
0	105	105	105	105	102	102	102	102	95	95	95	88	88	88	82	82	82	79
1	98	94	91	88	94	91	88	86	85	83	81	80	78	76	75	74	72	70
2	90	84	79	75	87	82	77	73	77	73	70	72	69	66	68	65	63	61
3	84	76	69	64	81	73	68	63	69	64	61	65	61	58	62	59	56	54
4	77	68	61	56	74	66	60	55	62	57	53	59	55	51	56	52	49	47
5	71	61	54	48	69	59	53	48	56	50	46	53	48	45	51	47	43	41
6	66	55	48	43	64	54	47	42	51	45	41	49	44	40	46	42	39	37
7	61	50	43	38	59	49	42	37	46	41	36	44	39	35	42	38	34	32
8	57	45	38	33	55	44	38	33	42	36	32	40	35	31	38	34	30	29
9	52	41	34	29	51	40	33	29	38	32	28	36	31	27	35	30	27	25
10	49	37	31	26	47	37	30	26	35	29	25	33	28	25	32	27	24	22

Zonal Lumen Summary

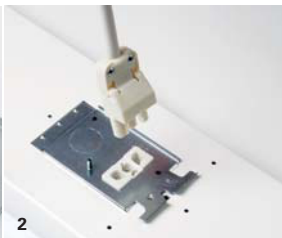
Zone	Lumens	%Lamp	%Fixture
0-30	2554	29.0	32.0
0-40	3903	44.3	48.9
0-60	6002	68.2	75.2
0-90	6995	79.5	87.6
0-180	7985	90.7	100.0

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.



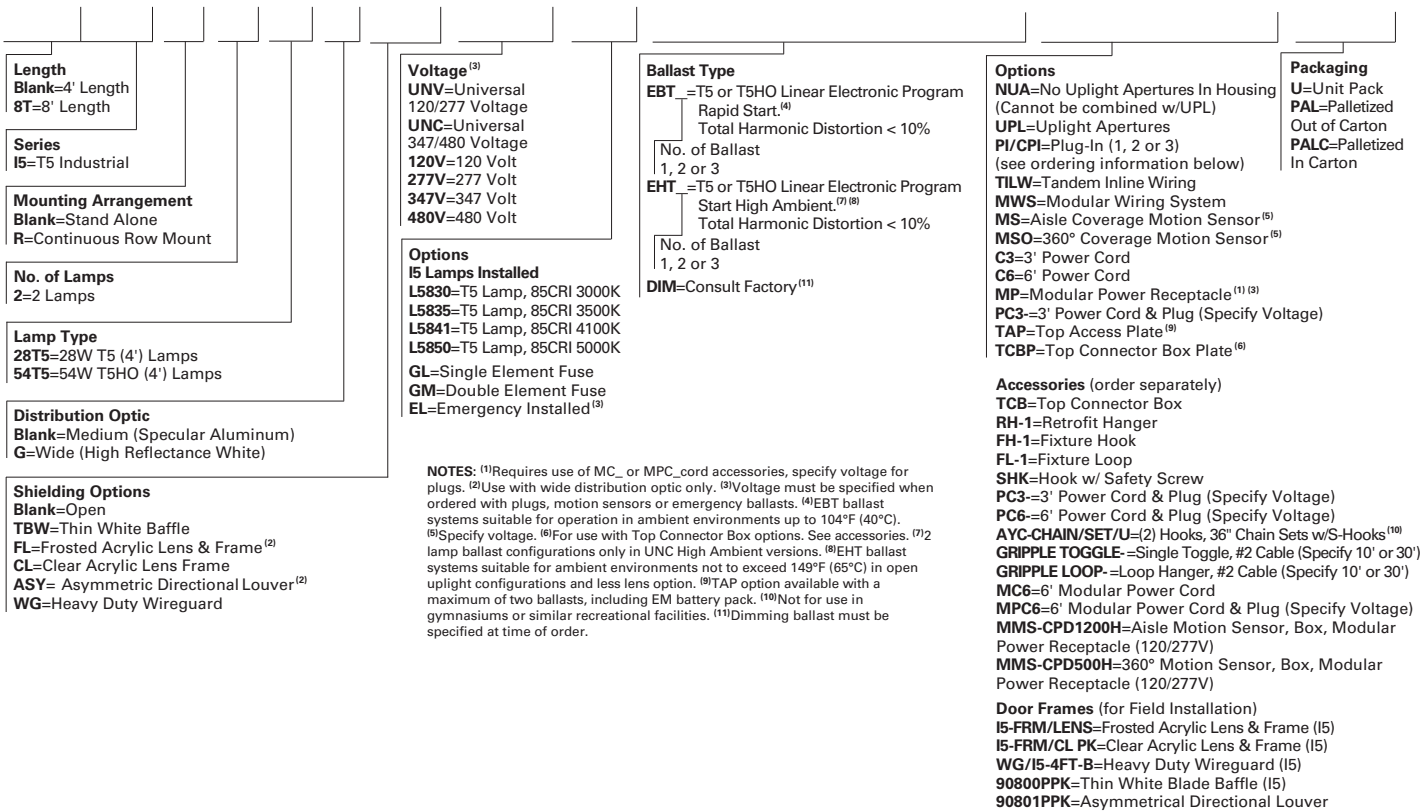
Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle.

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

ORDERING INFORMATION

SAMPLE NUMBER: 8TI5-254T5-TBW-UNV-EBT2-UPL-U



SHIPPING INFORMATION

Catalog No.	Wt.
I5-254T5-TBW-UPL	15 lbs.
8TI5-254T5-TBW-UPL	30 lbs.

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

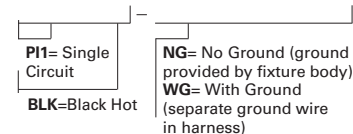
The PI System is available in sections up to 8' in length for continuous row wiring by simply plugging the sections together. Each PI section is factory wired to the ballast leads. Color coding of wires is as follows:

- 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

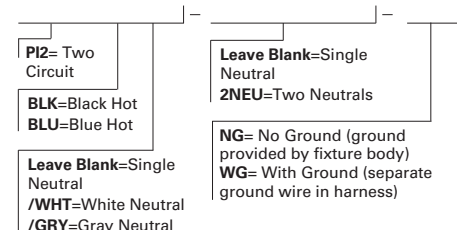
SAMPLE NUMBER: PI1BLK-WG



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

