

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

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 KO's 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

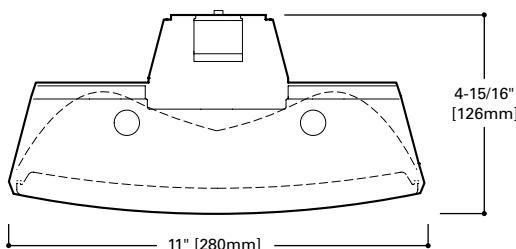
The I5 series is suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

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.



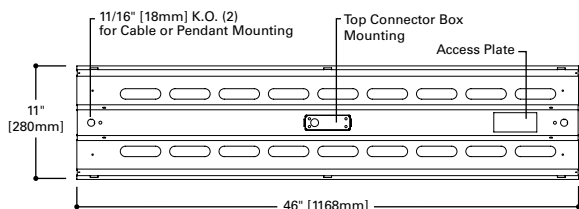
I5 SERIES

4' OR 8'
2 LAMPS

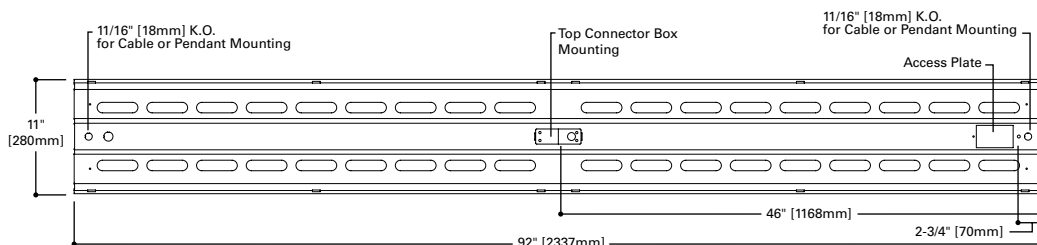
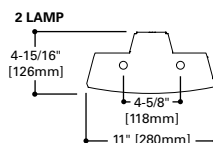
T5 Linear Fluorescent
High-Bay Lighting System



MOUNTING DATA



LAMP CONFIGURATIONS



ENERGY DATA

Input Watts:
EB Ballast and T5HO Lamps
254T5=(117)
8T254T5=(229)

Luminaire Efficacy Rating
LER = 73

Catalog Number: I5-254T5-TBW-UPL

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$3.28

*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**

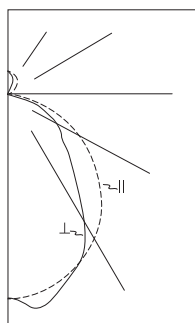
LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



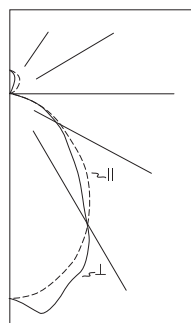
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PHOTOMETRICS



I5-254T5-UPL
 (1) Electronic Ballast
 (2) F54T5 Lamps
 4400 lumens
 Spacing criterion:
 (H) 1.2 x mounting
 height, (L) 1.1 x
 mounting height
 Efficiency 95.8%
 Test Report:
 P31108
 LER =73
 Yearly Cost of 1000
 lumens, 3000 hrs at
 .08 KWH = \$3.28

Candela			
Angle	Along H	45°	Across L
0	3495	3495	3495
5	3479	3555	3623
10	3438	3666	3682
15	3347	3570	3478
20	3238	3361	3202
25	3091	3064	3049
30	2900	2882	2601
35	2711	2613	2120
40	2472	2188	1753
45	2214	1742	1480
50	1939	1411	1194
55	1659	1147	1070
60	1357	883	944
65	1059	757	693
70	769	561	381
75	479	279	190
80	239	100	21
85	58	9	2
90	4	11	6



I5-254T5-TBW-UPL
 (2) Electronic Ballasts
 (2) F54T5 Lamps
 4400 lumens
 Spacing criterion:
 (H) 1.1 x mounting
 height, (L) 1.2 x
 mounting height
 Efficiency 90.2%
 Test Report:
 931109
 LER =68
 Yearly Cost of 1000
 lumens, 3000 hrs at
 .08 KWH = \$3.53

Candela			
Angle	Along H	45°	Across L
0	3461	3461	3461
5	3447	3524	3602
10	3355	3660	3707
15	3208	3530	3502
20	3062	3280	3263
25	2834	2961	3078
30	2619	2749	2660
35	2359	2442	2122
40	2090	2061	1793
45	1798	1633	1453
50	1491	1336	1246
55	1188	1039	1117
60	875	840	877
65	588	710	626
70	392	502	407
75	267	293	227
80	160	191	56
85	73	113	29
90	4	54	12

Coefficients of Utilization

rc	Effective floor cavity reflectance																
	80%			70%			50%			30%			10%			0%	
rw	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0	
RCR																	
0	113	113	113	113	110	110	110	110	104	104	104	99	99	99	94	94	91
1	105	101	97	94	102	98	95	92	93	91	88	89	87	85	85	83	79
2	96	89	83	78	93	87	81	77	83	78	75	79	75	72	76	73	68
3	88	79	72	66	86	77	71	65	74	68	64	71	66	62	68	64	58
4	81	71	63	57	79	69	62	56	66	60	55	64	58	54	61	57	51
5	75	64	56	50	73	62	55	49	60	53	48	58	52	48	55	51	45
6	70	58	50	44	68	57	49	44	54	48	43	52	47	42	51	45	40
7	65	53	45	39	63	52	44	39	50	43	38	48	42	38	46	41	37
8	60	48	41	35	59	47	40	35	46	39	35	44	38	34	43	38	34
9	57	44	37	32	55	44	37	32	42	36	31	41	35	31	40	34	29
10	53	41	34	29	52	40	34	29	39	33	29	38	32	28	37	32	26

Coefficients of Utilization

rc	Effective floor cavity reflectance																
	80%			70%			50%			30%			10%			0%	
rw	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0	
RCR																	
0	106	106	106	106	103	103	103	103	98	98	98	92	92	92	88	88	85
1	98	94	91	88	95	92	89	86	87	85	82	83	81	79	79	77	74
2	90	84	78	74	88	82	77	72	78	73	70	74	71	68	71	68	63
3	83	75	68	63	81	73	67	62	69	64	60	66	62	58	64	60	55
4	77	67	60	54	74	65	59	54	63	57	52	60	55	51	58	53	48
5	71	60	53	47	69	59	52	47	57	51	46	54	49	45	52	48	42
6	66	55	47	42	64	54	47	42	52	45	41	50	44	40	48	43	38
7	61	50	43	38	60	49	42	37	47	41	37	46	40	36	44	39	34
8	57	46	39	34	56	45	38	34	44	37	33	42	37	33	41	36	31
9	54	42	35	31	52	42	35	31	40	34	30	39	34	30	38	33	28
10	51	39	33	28	49	39	32	28	37	32	28	36	31	27	35	30	25

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2759	31.4	32.7
0-40	4329	49.2	51.3
0-60	6889	78.3	81.7
0-90	8036	91.3	95.3
0-180	8433	95.8	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	9384	7383	6273
55	8668	5993	5591
65	7510	5368	4914
75	5547	3231	2200
85	1994	309	69

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2697	30.6	34.0
0-40	4168	47.4	52.5
0-60	6453	73.3	81.3
0-90	7511	85.4	94.6
0-180	7939	90.2	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	7621	6921	6158
55	6207	5429	5836
65	4170	5035	4439
75	3092	3393	2629
85	2510	309	997

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: 8T15-254T5-TBW-UNV-EBT2-UPL-U

<p>Domestic Preferences⁽¹²⁾ [Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act</p> <p>Length Blank=4' Length 8T=8' Length</p> <p>Series I5=T5 Industrial</p> <p>Mounting Arrangement Blank=Stand Alone R=Continuous Row Mount</p> <p>No. of Lamps 2=2 Lamps</p> <p>Lamp Type 28T5=28W T5 Std (4') Lamps 49T5=49W T5HO (4') Lamps 51T5=51W T5HO (4') Lamps 54T5=54W T5HO (4') Lamps</p> <p>Distribution Optic Blank=Medium (Specular Aluminum) G=Wide (High Reflectance White)</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 I5 Lamps Installed L5830=T5 Lamp, 85CRI 3000K L5835=T5 Lamp, 85CRI 3500K L5841=T5 Lamp, 85CRI 4100K L5850=T5 Lamp, 85CRI 5000K GL=Single Element Fuse GM=Double Element Fuse EL=Emergency Installed⁽³⁾</p>	<p>Ballast Type T5 Systems EBT=T5 or T5HO Linear Electronic Program Rapid Start. Total Harmonic Distortion < 10%⁽⁴⁾ No. of Ballast 1, 2 or 3 EHT=T5HO Linear Electronic Start High Ambient. Total Harmonic Distortion < 10%⁽⁶⁾⁽⁷⁾ No. of Ballast 1, 2 or 3 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⁽¹¹⁾ MP=Modular Power Receptacle (Used for all Cord or Cord and Plug options)^{(11),(11)}</p> <p>Accessories (order separately)⁽¹³⁾ 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) I5-FRM/LENS=Frosted Acrylic Lens & Frame (I5) I5-FRM/CL PK=Clear Acrylic Lens & Frame (I5) WG/I5-4FT-B=Heavy Duty Wireguard (I5) 90800PPK=Thin White Blade Baffle (I5) 90801PPK=Asymmetrical Directional Louver (I5)</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⁾EBT 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. 2/3 lamp ballast configurations in EB/PLUS only for T8 UNC. ⁽⁷⁾EHT ballast systems suitable for ambient environments not to exceed 149°F (65°C) in open upright configurations and less lens option. ⁽⁸⁾Not for use in gymnasiums or similar recreational facilities. ⁽⁹⁾When ordering MS option, specify UNV (for 120 or 277V), 347 or 480V. ⁽¹⁰⁾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. ⁽¹²⁾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. ⁽¹³⁾Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

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)

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

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.
I5-254T5-TBW-UPL	15 lbs.
8T15-254T5-TBW-UPL	30 lbs.

