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 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.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

I5 SERIES

4' OR 8'
3 LAMPS

T5 Linear Fluorescent
High-Bay Lighting System

F-BAY™
FLUORESCENT HIGH-BAY

BAA

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.

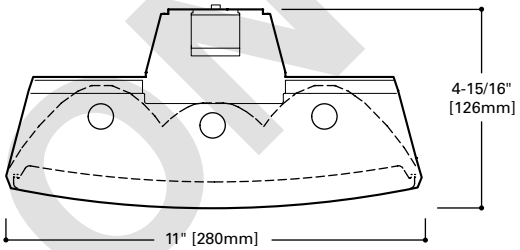
Finish
Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

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.

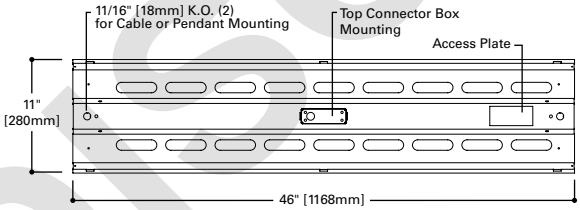
Mounting
The I5 series is suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

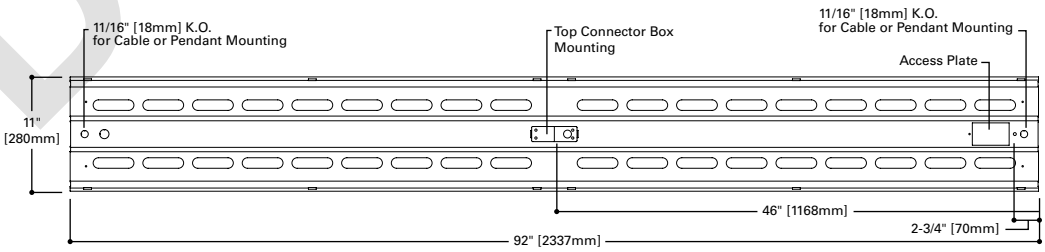
Options
Integral Occupancy Sensor available and provides from 600 sq. ft. (MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.

Compliance
Options to meet Buy American and other domestic preference requirements.



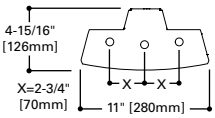
MOUNTING DATA





LAMP CONFIGURATIONS

3 LAMP



ENERGY DATA

Input Watts:
EB Ballast & T5HO Lamps
354T5 = (182)
8T354T5 = (346)

Luminaire Efficacy Rating
LER = 70
Catalog Number: I5-354T5-UPL
Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = $3.42

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

**Consult Pre Sales Technical Support.

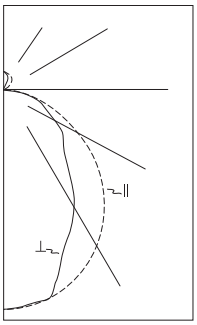
LINEAR DISCONNECT
Designed to provide safe and convenient means of disconnecting power

ISO 9001 SYSTEMS CERTIFIED

COOPER Lighting Solutions

DISCONTINUED

PHOTOMETRICS



I5-354T5-UPL
(1) Electronic Ballast
(3) F54T5 Lamps
4400 lumens
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.0 x mounting height
Efficiency 98%
Test Report: 236P108
LER =70
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.42

Candela

Angle	Along II	45°	Across ⊥
0	7706	7706	7706
5	7657	7520	7363
10	7547	6982	6545
15	7371	6305	5549
20	7124	5500	4076
25	6801	4305	3213
30	6404	3343	2669
35	5945	2766	1973
40	5418	2225	1744
45	4837	1642	1645
50	4202	1417	1612
55	3535	1282	1525
60	2857	1203	1308
65	2176	1047	1108
70	1517	820	1086
75	919	711	940
80	432	506	261
85	94	31	26
90	1	13	7

Coefficients of Utilization

Effective floor cavity reflectance 20%

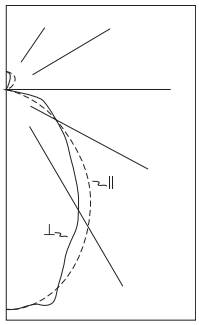
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	115	115	115	115	112	112	112	112	105	105	105	99	99	99	94	94	94	91
1	106	102	98	95	103	99	96	93	94	91	89	89	87	85	84	83	81	79
2	98	90	84	79	95	88	82	78	83	79	75	79	76	72	75	72	70	67
3	90	81	73	67	87	78	72	66	75	69	64	71	66	63	68	64	61	58
4	83	72	64	58	80	71	63	58	67	61	56	64	59	55	62	57	53	51
5	77	65	57	51	75	64	57	51	61	55	50	59	53	49	56	51	48	45
6	72	60	52	46	69	58	51	45	56	49	45	54	48	44	52	47	43	41
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	43	39	37
8	63	50	43	37	61	50	42	37	48	41	37	46	40	36	44	39	35	34
9	59	47	39	34	57	46	39	34	44	38	34	43	37	33	41	36	33	31
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	39	34	30	28

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	4625	35.0	35.7
0-40	6720	50.9	51.8
0-60	10049	76.1	77.5
0-90	12075	91.5	93.1
0-180	12970	98.3	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	22843	7468	7423
55	20467	7040	8282
65	16944	7542	7854
75	11454	7787	10031
85	3175	756	598



I5-354T5-TBW-UPL
(1) Electronic Ballast
(3) F54T5 Lamps
4400 lumens
Spacing criterion: (II) 1.1 x mounting height, (⊥) 1.0 x mounting height
Efficiency 94.1%
Test Report: 236P107
LER =66
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.63

Candela

Angle	Along II	45°	Across ⊥
0	7874	7874	7874
5	7768	7650	7475
10	7509	6940	6603
15	7128	6204	5643
20	6672	5355	4271
25	6130	4243	3340
30	5545	3346	2792
35	4907	2766	2110
40	4239	2269	1901
45	3541	1782	1786
50	2841	1580	1648
55	2161	1430	1496
60	1522	1235	1290
65	943	1011	1199
70	591	774	1174
75	409	541	846
80	250	372	195
85	110	176	91
90	1	85	31

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	110	110	110	110	107	107	107	107	100	100	100	94	94	94	89	89	89	86
1	102	98	94	91	98	95	91	89	89	87	84	84	82	80	80	78	77	74
2	93	87	81	76	90	84	79	75	80	75	72	75	72	69	72	69	66	64
3	86	77	70	65	83	75	69	64	71	66	62	68	63	60	65	61	58	56
4	80	70	62	57	77	68	61	56	65	59	54	62	57	53	59	55	51	49
5	74	63	56	50	72	62	55	49	59	53	48	56	51	47	54	49	46	44
6	69	58	50	45	67	56	49	44	54	48	43	52	46	42	50	45	41	39
7	64	53	45	40	62	52	45	40	50	43	39	48	42	38	46	41	37	36
8	60	49	42	37	59	48	41	36	46	40	36	44	39	35	43	38	34	32
9	57	45	38	33	55	44	38	33	43	37	33	41	36	32	40	35	32	30
10	54	42	35	31	52	41	35	31	40	34	30	39	33	30	37	33	29	28

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	4522	34.3	36.4
0-40	6483	49.1	52.2
0-60	9554	72.4	76.9
0-90	11370	86.1	91.5
0-180	12426	94.1	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	16722	8105	8059
55	12512	7853	8124
65	7343	7283	8499
75	5097	5925	9028
85	3715	4290	2092

DISCONTINUED

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

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Specifications and dimensions subject to change without notice.

ORDERING INFORMATION

SAMPLE NUMBER: 8TI5-354T5-TBW-UNV-EBT2-UPL-U

Domestic Preferences [12]
[Blank]=Standard
BAA=Buy American Act
TAA=Trade Agreements Act

Length
Blank=4' Length
8T=8' Length

Series
I5=T5 Industrial

Mounting Arrangement
Blank=Stand Alone
R=Continuous Row Mount

No. of Lamps
3=3 Lamps

Lamp Type
28T5=28W T5 Std (4') Lamps
49T5=49W T5HO (4') Lamps
51T5=51W T5HO (4') Lamps
54T5=54W T5HO (4') Lamps

Distribution Optic
Blank=Medium (Specular Aluminum)
G=Wide (High Reflectance White)

Shielding Options
Blank=Open
TBW=Thin White Baffle
FL=Frosted Acrylic Lens & Frame[2]
CL=Clear Acrylic Lens & Door Frame
WG=Heavy Duty Wireguard

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

Options
GL=Single Element Fuse
GM=Double Element Fuse
EL=Emergency Installed[3]

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)

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)[1], [11]

Packaging
U=Unit Pack
PAL=Palletized Out of Carton
PALC=Palletized In Carton

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)[1]
MDS6=6' Modular Power Cord with MWS 27DS18/2G06MP Connector[11]

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)

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 uplight 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 uplight 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.

STOCK CATALOG ITEMS

I5355=3 lamp, 54W T5HO, Program Rapid Start Ballast, Top Connector Plate, Uplight, 850 Lamps Installed[6]

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

PI2= 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

PI3= Three Circuit
BLK=Black Hot
BLU=Blue Hot
RED=Red 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)

SHIPPING DATA

Catalog No.	Wt.
I5-354T5-TBW-UPL	15 lbs.
8TI5-354T5-TBW-UPL	30 lbs.

DISCONTINUED

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