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 I8s 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 restrike, economical dimming, and uniform brightness control. Primary applications include "big box" retail, shopping malls, light industrial, school gymnasiums, etc.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

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. 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.

Finish

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

11/16" [18mm] K.O. (2) for Cable or Pendant Mounting

11/16" [18mm] K.O. for Cable or Pendant Mounting

Top Connector Box

46" [1168mm]

Access Plate

MOUNTING DATA

[280mm]

11'

[280mm]

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'.

Compliance

LAMP CONFIGURATIONS

11" [280mm]

11/16" [18mm] K.O. for Cable or Pendant Mounting

Access Plate

2-3/4" [70mm]

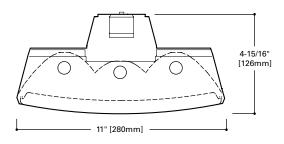
3 LAME

4-15/16"

[126mm]

X=2-3/4

Options to meet Buy American and other domestic preference requirements.



Top Connector Box

(Ha)

- 92" [2337mm]

18 SERIES

4' OR 8' 3 LAMPS

T5 Linear Fluorescent High-Bay Lighting System



ENERGY DATA



Input Watts:

EB Ballast

332=82 8T332=167

EB/Plus Ballast

332=108 8T332=220

FR Ballast

332=93 8T332=169

ER/Plus Ballast

332=120 8T332=218

Luminaire Efficacy Rating

LER = 93

Catalog Number: I8-332-UNV-UPL

Yearly Cost of 1000 lumens. 3000 hrs at .08 KWH = \$2.58

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

**Consult Pre Sales Technical Support.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING





requirements.

TO LOCAL, STATE OR FEDERAL LAWS

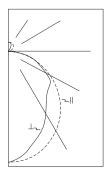


November 18, 2021 3:00 PM



60

PHOTOMETRICS



I8-332-UPL (1) Electronic Ballast (3) F28T8 Lamps 4400 Lumens

Spacing criterion: (II) 1.2 x mounting height, (\perp) 1.2 x mounting height Efficiency 94%

Test Report: P31546C

LER =93

Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$2.58

Coefficients of Utilization

	Effe	ctiv	e flo	or ca	vity ref	lect	ance		20	0%								
rc		80	%			7	0%			50%	, D		30%	•		10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	108	108	108	108	102	102	102	97	97	97	92	92	92	90
1	102	97	93	89	99	95	91	88	90	87	84	85	83	81	81	80	78	75
2	92	85	78	73	89	82	77	72	79	74	69	75	71	67	71	68	65	63
3	84	74	67	61	82	73	66	60	69	63	58	66	61	57	63	59	55	53
4	77	66	58	52	75	64	57	51	62	55	50	59	53	49	56	52	48	45
5	71	59	51	44	69	58	50	44	55	48	43	53	47	42	51	46	42	39
6	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35
7	61	48	40	35	59	47	40	34	46	39	34	44	38	33	42	37	33	31
8	57	44	36	31	55	43	36	31	42	35	30	40	34	30	39	34	29	28
9	53	41	33	28	52	40	33	28	39	32	27	37	31	27	36	31	27	25
10	50	38	30	25	49	37	30	25	36	29	25	35	29	25	34	28	24	23

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2454	26.4	28.0
0-40	3866	41.6	44.1
0-60	6580	70.8	75.1
0-90	8391	90.2	95.8
0-180	8761	94.2	100.0

Luminance Data							
Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm				
45	9722	7275	7353				
55	9156	7127	8179				
65	8275	7738	7912				
75	6673	7264	7761				
85	2530	4146	3478				

Candela

Angle	Along II	45°	Across⊥
0	3463	3463	3463
5	3458	3373	3354
10	3409	3253	3186
15	3328	3078	2962
20	3212	2867	2798
25	3068	2701	2537
30	2894	2471	2256
35	2704	2192	2010
40	2487	1932	1819
45	2245	1680	1698
50	1989	1481	1653
55	1715	1335	1532
60	1432	1244	1291
65	1142	1068	1092
70	846	836	872
75	564	614	656
80	292	400	367
85	72	118	99
90	5	14	11

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*.





- Modular Power Supply Receptacle supplied mounted into fixture Access Plate
- 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



Packaging

In Carton

U=Unit Pack

PAL=Palletized

Out of Carton

PALC=Palletized

ORDERING INFORMATION

SAMPLE NUMBER: 8TI8-332-EB82/PLUS-UPL-U Domestic Preferences (12) [Blank]=Standard BAA=Buv American Act TAA=Trade Agreements Act 480V=480 Volt Length Blank=4' Length 8T=8' Length Series

Voltage (3) UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage (6) 120V=120 Volt 277V=277 Volt 347V=347 Volt

Ballast Type T8 Systems

EB8_=T8 Electronic Instant Start. (5) Total Harmonic Distortion < 10% No. of Ballast

1, 2 or 3

T8 Electronic Instant Start. (5), (6) EB8 /PLUS= No. of Ballast Total Harmonic Distortion < 10% 1, 2 or 3

ER8_=T8 Electronic Program Rapid Start. (5) Total Harmonic Distortion < 10%

No. of Ballast 1, 2 or 3

ER8_/PLUS=T8 Electronic Program Start. High Ballast Factor >1.15. No. of Total Harmonic Distortion < 10% Ballast

1. 2 or 3

DIM=Dimming (ballast must be specified)

18 Lamps Installed L8930=T8 Lamp, 90CRI 3000K **L8935**=T8 Lamp, 90CRI 3500K L8941=T8 Lamp, 90CRI 4100K **L8950**=T8 Lamp, 90CRI 5000K

GL=Single Element Fuse GM=Double Element Fuse

EL=Emergency Installed (3)

Options

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)

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^(t)

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

Woltage)
MMS=360° or 180° Aisle Motion Sensor with Modular
Power Receptacle (120-277V)¹⁰
Power Receptacle (120-277V) with MWS MDS6=6' Modular Power Cord with MWS 27DS18/2G06MP Connector (11)

Door Frames (for Field Installation) 18-FRM/LENS PK=Frosted Acrylic Lens & Frame (18) 18-FRM/CL PK=Clear Acrylic Lens & Frame (18) WG/I8-4FT-B=Heavy Duty Wireguard (I8) BAFFLE 4FT I8=Thin White Blade Baffle (I8)

Shielding Options

Distribution Optic

I8=T8 Industrial

No. of Lamps

3=3 Lamps

Mounting Arrangement

R=Continuous Row Mount

Blank=Stand Alone

Lamp Type 32=32W T8 (4') Lamps

Blank=Medium (Specular Aluminum)

G=Wide (High Reflectance White)

Blank=Open TBW=Thin White Baffle FL=Frosted Acrylic Lens

& Frame (2) CL=Clear Acrylic Lens & Door Frame

WG=Heavy Duty Wireguard

NOTES: (1) Requires use of MC_ or MPC_cord accessories, specify voltage for plugs. (2) Use with wide distribution option only, ^(a)Voltage must be specified when ordered with plugs, motion sensor or emergency ballasts. ^(a)EBT ballast systems suitable for operation in ambient environments up to 104°F (40°C). ^(a)ER8 and EB8 ballast systems suitable for operation in ambient environments up to 104°F (40°C) in open uplight configurations. ^(a)EBT ballast systems suitable for operation in ambient environments up to 122°F (60°C) in open uplight configurations. ^(a)EBT ballast systems suitable for only in T5 UNC versions. 2/3 lamp ballast configurations in EB/PLUS only for T8 UNC. ^(a)EBT ballast systems suitable for ambient environments not to exceed 149°F (65°C) in open uplight configurations and less lens option. (®)Not for use in gymnasiums or similar recreational facilities. (®)When ordering MS option, specify UNV (for 120 or 277V), 347 or 480V. (1%)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.

122 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. Consult factory for further information. ESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements

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 T 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:

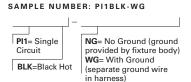
PI-1 = One Circuit - 2 Wires: one black, one white

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

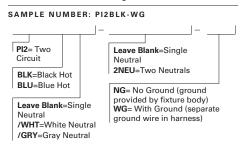
When ordering the PI2/PI3 System it is necessary to specify the number of fixtures required for each circuit. Each circuit in fixture must be ordered as a separate line item, with a different hot wire color specified. All wiring to external feeds, using cord or cord & plug, are responsibility of installing licensed contractor. Cord and cord & plug sets must be ordered separately if PI option is chosen.

PI1 - Single Circuit Plug-In

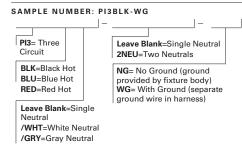


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PI2 - Two Circuit Plug-In



PI3 - Three Circuit Plug-In



SHIPPING DATA

Wt. Catalog No. 18-332-UNV-UPI 15 lbs. 8TI8-332-UNV-UPL 30 lbs.



subject to change without notice.