

FEATURES & SPECIFICATIONS

INTENDED USE — The I-BEAM fluorescent high bay is an ideal one-for-one replacement of common metal halide high bay systems. The unique Cool Running Technology provides trouble-free operation in ambient spaces up to 65°C. Applications include manufacturing, warehousing, commercial facilities and retail. The fluorescent I-BEAM fixture performs at mounting heights from 15'-40'. Certain airborne contaminants can diminish integrity of acrylic. Click here for Acrylic Environmental Compatibility table for suitable uses.

CONSTRUCTION — I-BEAM fixtures features Cool Running Technology for ambient operation up to 65°C. Backed by a full five-year ballast warranty at 55°C, three-year ballast warranty at 65°C. Designed for optimum performance using T5HO fluorescent lamps. The I-BEAM fixture provides the best option for applications requiring a rugged fixture construction coupled with excellent fixture performance. Optical designs for your choice of narrow distribution for aisles or wide distribution for general lighting. Typical arrangement provides over 90% luminaire efficiency. Available with four- or six-lamp cross-section with your choice of full direct component or with uplight. Easy two-point mounting with convenient aircraft cable provides reliable installation, eliminates fixture sag and provides sturdy installation. Single-point mounting available. Available in MVOLT (120-277V) or HVOLT (347-480V).

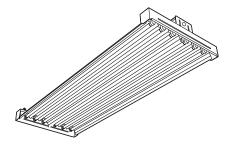
Channel is formed of heavy-duty code-gauge steel to stand up to the most demanding elements. Lamp holder assembly protects from incidental damage to reflectors during installation. Sockets include secure positioning rotating collars with enclosed contacts. Access plate on the back of the channel housing allows quick and easy wiring. Finish: Channel is high-gloss white baked enamel; five-stage iron phosphate pretreatment ensures superior paint adhesion and rust resistance.

OPTICS — Two optical systems are available. Narrow distribution (ND) is ideal for narrow or aisle lighting applications and features precision-formed segmented optics utilizing Alanod Miro® 4 specular aluminum reflector. Provides 95% reflectivity and warranted for 25 years. Wide distribution (WD) includes high-reflectance white finish for general or open areas.

ELECTRICAL — Thermally protected, resetting, Class P, HPF, A+ sound-rated electronic ballast. AWM TFM or THHN wire used throughout rated for required temperatures. Ballast disconnect (BDP) is standard unless EL14 or cordset is requested.

INSTALLATION — Suitable for suspension by chain, cable, hook monopoint or pendant monopoint. Fixture should be mounted at a minimum plenum height of 18 inches.

Catalog Number Notes Type





Fluorescent High Bay 4-, 6- or 8-lamp T5



PATENT PENDING



Specifications Length: 48 3/8 (1,227)

Width: 17 5/8 (448) Depth: 43/8 (111) Weight: 17 lbs. (7.71 kg)

All dimensions are inches (millimeters). Specifications subject to change without notice.

LISTINGS — UL/C-UL listed to US and Canadian safety standards for ambient operation up to 65°C. Suitable for damp locations. NOM Certified (see Options.)

WARRANTY — Guaranteed for one year against mechanical defects in manufacturing. Ballast warranty: Five years when operated in 55°C or less ambient conditions, three years when operated in 65°C or less ambient conditions. (Four- and six-lamp fixtures only.)

start, 1.0

BF

ORDERING INFORMATION

For shortest lead times, configure product using standard options (shown in bold).

Example: IB 454L

IB

Series **IB I-BEAM**

Lamps installed1

454L 4-lamp 54W T5H0 654L 6-lamp 54W T5HO 854L 8-lamp 54W T5HO

Number of lamps/wattage

Unlamped

454 4-lamp 54W T5HO 654 6-lamp 54W T5HO

854 8-lamp 54W T5HO

NOTES:

- Lamps installed are F54T5H0/841.
- Ballast included:
 - 6-lamp = (1) 2-lamp ballast and (1) 4-lamp ballast 4-lamp = (1) 4-lamp ballast
- 54T5HO only ballast configuration, 1/4 1/2. Not recommended for ambient temperatures greater than 45°C. Five-year limited warranty provided by ballast manufacturer.
- Not for use with motion sensors or EL14.
- UL Listed for 55°C. Output in emergency mode varies with ambient temperature (approx. 944 lumens at 25°C and 911 lumens at 45°C). Single-lamp operation only. Not available with HVOLT or MVOLT. Requires some assembly in field for 6-lamp fixtures.
- Specify voltage.
- Fixture must be ordered with PMP for channel modification. Splice box ships separately. Requires two ballasts. Conduit must be minimum of 18". Not field-installable

Voltage

Distribution

(blank) Narrow distribution with uplight

NDS Narrow distribution, no uplight <3%

WD Wide distribution with uplight

WDS Wide distribution. no uplight <3%

Ballast (blank) MVOLT; (blank) Program 120V-277V

HVOLT 347V-480V

LCR90 Less Cool Running³

Ballast configuration

(blank) Standard configuration²

2/3 Two, three-lamp ballasts

2/2 Two, two-lamp ballasts

Accessories:

Order as a separate catalog number.

Aircraft cable 10' Y hanger (one pair) IBAC240 M20 Aircraft cable 20' Y hanger (one pair)

WGIBZ Wireguard, zinc-coated

HC36 Chain hanger, 36' IBHMP Hook monopoint IBPMP Pendant monopoint7

Lamps installed (blank) F54T5H0/841 LP835 F54T5H0/835 LP830 F54T5H0/830 LP865 F54T5H0/865 Amalgam lamps4 LP841A F54T5H0/841 LP835A F54T5H0/835 LP830A F54T5H0/830 LP850A F54T5H0/850

Options

EL14 Emergency battery pack (900 lumens)^{5,6}

Motion sensor prewired6

MSI360 360° motion sensor prewired6

OCS RELOC® OnePass® 5' installed6

FSP Integral side panels

NOM NOM Certified

PMP Pendant monopoint7

Cords: See reverse.

Sheet #: IB-T5 **Fluorescent INFL-500**

IBAC120 M20

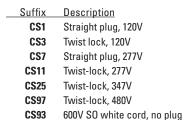
I-BEAM Fluorescent High Bay, T5

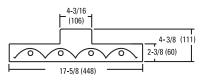
DIMENSIONS

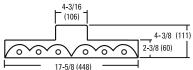
Inches (millimeters). Subject to change without notice.

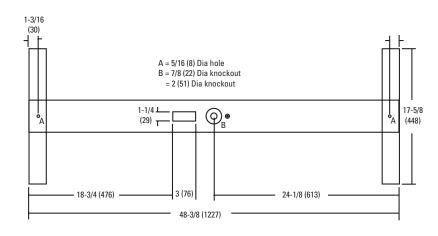
Cord Set Option:

Add suffix to end of catalog number, specify voltage. All cord sets are 6', black unless otherwise noted. Other configurations available, consult factory.









PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Lamp configurations shown are typical. All data based on 25°C. Full photometric data on these and other configurations available upon request.

IB 454
Report: LTL14006

LUMENS PER LAMP:4400

IB 454 WD

Report: LTL14005 LUMENS PER LAMP:4400 IB 654

Report: LTL14055 LUMENS PER LAMP:4400

Coefficients of Utilization									
pf				:	20%				
рс		80%			50%			30%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	118	118	118	107	107	107	101	101	101
1	109	104	101	96	93	91	91	89	87
2	100	92	86	85	81	77	81	77	74
3	92	82	75	76	71	66	73	68	64
∝ 4	85	74	66	69	62	57	66	60	56
2 ₅	78	67	59	62	56	51	60	54	50
- 6	73	61	53	57	50	45	55	49	44
7	68	56	48	52	46	41	51	45	40
8	64	51	43	49	42	37	47	41	37
9	60	48	40	45	39	34	44	38	33
10	57	44	37	42	36	31	41	35	31

pf	20%								
рс	80%			50%			30%		
_pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	110	110	110	100	100	100	94	94	94
1	100	96	92	88	85	82	83	80	78
2	91	83	77	76	71	67	72	68	64
3	83	73	65	67	61	56	63	58	54
∝ 4	75	64	56	59	52	47	56	50	46
25	69	57	49	53	46	40	50	44	39
⁻ 6	64	51	43	47	40	35	45	39	34
7	59	46	38	43	36	31	41	35	30
8	55	42	34	39	32	28	37	31	27
9	51	39	31	36	29	25	34	29	24
10	48	36	28	33	27	22	32	26	22

Coefficients of Utilization

	Coefficients of Utilization									
	pf				2	20%				
	рс		80%			50%			30%	
%	_pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
1	0	117	117	117	108	108	108	102	102	102
3	1	108	103	99	95	92	89	90	88	86
1	2	98	90	84	84	79	75	80	76	72
1	3	90	80	72	74	68	63	71	66	62
3	<u>~</u> 4	83	71	63	67	60	55	64	58	53
9	[] 5	77	64	56	60	53	48	58	52	47
1	6	71	58	50	55	48	42	53	46	42
)	7	66	53	45	50	43	38	48	42	37
7	8	62	49	41	46	39	34	45	38	34
1	9	58	45	37	43	36	31	41	35	31
2	10	54	42	34	40	33	29	39	32	28

Zonal Lumen Summary							
Zone	Lumens	% Lamp	% Fixture				
0° - 30°	6218	35.3	35.3				
0° - 40°	9065	51.5	51.4				
0° - 60°	13684	77.7	77.6				
0° - 90°	16413	93.3	93.1				
90° - 180°	1214	6.9	6.9				
0° - 180°	17626	100.1	100.0				
0° - 180°	17626	100.1	100.0				

Zonai Lumen Summary							
Zone	Lumens	% Lamp	% Fixture				
0° - 30°	3911	22.2	23.6				
0° - 40°	6432	36.5	38.8				
0° - 60°	11655	66.2	70.3				
0° - 90°	15190	86.3	91.7				
90° - 180°	1381	7.8	8.3				
0° - 180°	16571	94.2	100.0				

Zonal Lumen Summary							
Zone	Lumens	% Lamp	% Fixture				
0° - 30°	8275	31.3	31.5				
0° - 40°	12681	48.0	48.2				
0° - 60°	20122	76.2	76.5				
0° - 90°	25014	94.8	95.2				
90° - 180°	1272	4.8	4.8				
0° - 180°	26287	99.6	100.0				



An**≪Acuity**Brands Company

One Lithonia Way, Conyers, GA 30012 Phone: 770-922-9000 Fax: 770-981-8141 www.lithonia.com