

**4 & 6 Lamp  
T8 OR T5HO**

**CONSTRUCTION/FINISH**

- Enclosed housing design.
- Suitable for chain or pendant mounting.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- 1.5" deep individual cavity reflectors are made from MIRO-4 for high reflectance and specularly.
- Top access plate standard.
- Optional heavy duty chain hanger set (ordered separately).
- Order (2) DACH-(Length) if cable hangers are required.
- All units have uplight apertures in housing and reflectors. These are in closed position unless "U" option is specified. Uplight is field adjustable by rotating reflectors 180° along the axis of the luminaire. (patent pending)

**ELECTRICAL**

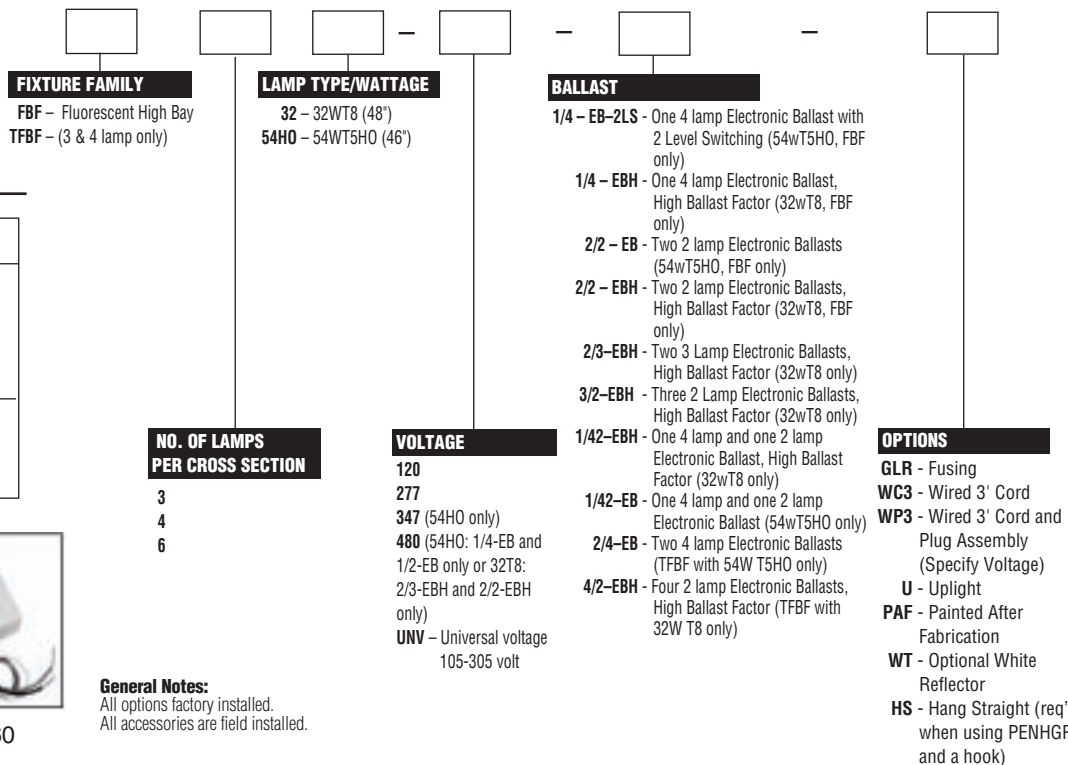
- UL listed for damp locations and 40° C ambient.
- Class P, HPF ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).

- Energy saving electronic ballasts are standard.
- Multi-Level switching capability.
- Motion sensor available.

**ACCESSORIES**

- WG-FBF4** – Wire guard, 4 lamp. (2 required for TFBF)
- WG-FBF6** – Wire guard, 6 lamp.
- MD360** – Motion Detector (120-277V)
- MD360-480** – Motion Detector (480V).
- FBF-4E-1W** – Single gasketed enclosure with clear acrylic lens, 4 lamp unit. (4 ft. unit only) Add DB21 for prismatic lens.
- FBF-4E-2W** – Double gasketed enclosure with clear acrylic lens, 4 lamp unit. (4 ft. unit only) Add DB21 for prismatic lens.
- FBF-6E-1W** – Single gasketed enclosure with clear acrylic lens, 6 lamp unit (4 ft. unit only) Add DB21 for prismatic lens.
- FBF-6E-2W** – Double gasketed enclosure with clear acrylic lens, 6 lamp unit. (4 ft. unit only) Add DB21 for prismatic lens.
- FBF-PENHGR** – Pendant Hanger
- FBF-JB** – Junction box for use with FBF-PENHGR to conceal wiring.

**CATALOG NUMBER**



**ENERGY DATA**

LAMP WATTS	BALLAST TYPE	INPUT WATTS
32	1/4-EBH	146
	2/2-EBH	148
	2/3-EBH	222
	3/2-EBH	231
	1/42-EBH	220
54	4/2-EBH	296
	1/4-EB-2LS	240
	2/2-EB	236
	1/42-EB	358
	2/4-EB	480



End Holes for Chain & Hanger



MD360

**General Notes:**  
All options factory installed.  
All accessories are field installed.

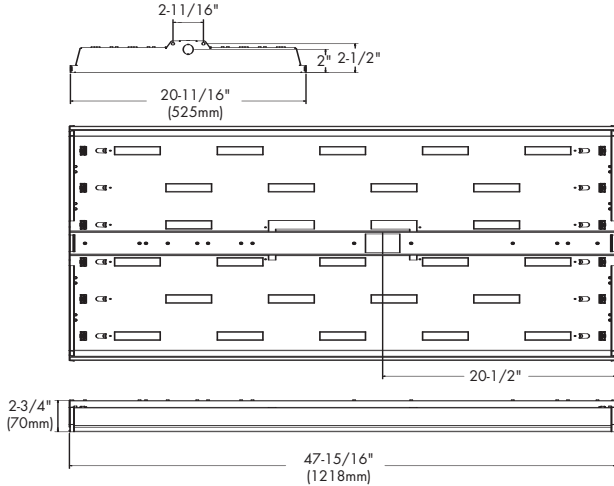
**JOB INFORMATION**

**1477.1-IF**

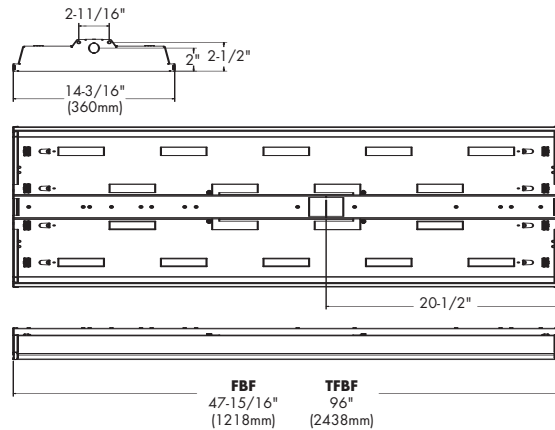
# FBF - FLUORESCENT HIGH BAY



## DIMENSIONS/6 LAMP



## DIMENSIONS/4 LAMP



### PHOTOMETRIC DATA

CATALOG # FBF654HO-1/42-EB-U LAMPS = F54T5HO INPUT WATTS = 352  
 TEST #25362 S/MH = 1.0 BALLAST = ELECTRONIC BALLAST FACTOR = 1.00

LER = FP-68

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.53 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 91.3%

CANDLEPOWER				
Angle	End	45	Cross	
0	11113	11113	11113	
5	11068	11115	11014	
15	10861	10422	9822	
25	9888	8580	8234	
35	8749	7283	6517	
45	7320	5286	3976	
55	5582	2876	1543	
65	3677	731	171	
75	1727	22	7	
85	249	17	11	
95	71	23	19	
105	287	44	57	
115	572	35	52	
125	863	82	34	
135	1128	366	108	
145	1362	747	461	
155	1541	1146	928	
165	1673	1509	1377	
175	1740	1729	1705	

### MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture\*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.89 4400 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4' 6 Lamp T5HO	5	-	-	-	-	-
	2	-	-	-	-	-
	1	-	-	-	-	121

\*Observe Fixture S/MH Requirements for Specific Applications

### AVERAGE LUMINANCE CD/SQ.M WITH 4400 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	15195	10973	8253
55	14285	7360	3949
65	12771	2539	594
75	9794	125	40
85	4193	286	185

### TYPICAL V.C.P.'s Mounting Height

Room Size	Mounting Height			
	Lengthwise	Crosswise	8.5	10
30x30	36	35	81	75
40x40	40	38	83	77
60x30	48	46	79	73
60x60	44	40	85	80
100x100	49	46	87	84

### COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20						70						50					
	70	50	30	30	70	50	70	50	30	30	70	50	70	50	30	30		
0	106	106	106	106	106	103	103	103	103	103	103	103	103	103	103	103		
1	99	96	93	90	96	93	90	87	83	78	74	74	74	74	74	74		
2	92	85	80	76	88	83	78	74	74	74	74	74	74	74	74	74		
3	85	76	70	65	82	74	69	64	64	64	64	64	64	64	64	64		
4	78	69	62	56	75	67	61	56	56	56	56	56	56	56	56	56		
5	72	62	55	50	70	61	54	49	49	49	49	49	49	49	49	49		
6	67	56	49	44	65	55	48	43	43	43	43	43	43	43	43	43		
7	63	51	44	39	61	50	44	39	39	39	39	39	39	39	39	39		
8	58	47	40	35	57	46	40	35	35	35	35	35	35	35	35	35		
9	55	44	37	32	53	43	36	32	32	32	32	32	32	32	32	32		
10	51	40	34	29	50	40	33	29	29	29	29	29	29	29	29	29		

### LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	8103	30.7	33.6
0-40	12733	48.2	52.8
0-60	19753	74.8	81.9
0-90	21650	82.0	89.8
90-180	2459	9.3	10.2
0-180	24109	91.3	100.0

### PHOTOMETRIC DATA

CATALOG # FBF454HO-2/2-EB-U LAMPS = F54T5HO INPUT WATTS = 237  
 TEST #25219 S/MH = 1.1 BALLAST = ELECTRONIC BALLAST FACTOR = 1.00

LER = FP-69

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.48 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 93.5%

CANDLEPOWER				
Angle	End	45	Cross	
0	7700	7700	7700	
5	7667	7708	7662	
15	7374	7387	7049	
25	6802	6114	5765	
35	5963	5148	4538	
45	4983	3719	2818	
55	3815	2078	789	
65	2528	390	1	
75	1220	14	2	
85	226	10	4	
95	46	17	16	
105	204	30	45	
115	392	23	25	
125	561	97	26	
135	730	280	136	
145	819	516	347	
155	938	824	666	
165	1022	860	720	
175	1073	833	893	

### MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture\*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.89 4400 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4' 4 Lamp T5HO	5	-	-	-	-	-
	2	-	-	-	-	111
	1	-	-	-	119	84

\*Observe Fixture S/MH Requirements for Specific Applications

### AVERAGE LUMINANCE CD/SQ.M WITH 4400 LUMEN LAMPS

ANGLE	END	45°	CROSS
45	16856	12581	9533
55	15910	8666	3290
65	14308	2207	6
75	11275	129	18
85	6203	274	110

### TYPICAL V.C.P.'s Mounting Height

Room Size	Mounting Height			
	Lengthwise	Crosswise	8.5	10
30x30	35	33	83	76
40x40	39	36	86	79
60x30	47	45	82	75
60x60	41	38	87	81
100x100	44	43	89	85

### COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20						70						50					
	70	50	30	30	70	50	70	50	30	30	70	50	70	50	30	30		
0	109	109	109	109	106	106	106	106	106	106	106	106	106	106	106	106		
1	102	98	95	92	98	95	92	90	85	81	87	81	81	77	71	66		
2	94	88	83	78	91	85	81	77	71	66	66	66	66	66	66	66		
3	87	79	72	67	84	77	71	66	66	66	66	66	66	66	66	66		
4	80	71	64	58	78	69	63	58	58	58	58	58	58	58	58	58		
5	75	64	57	51	72	63	56	51	51	51	51	51	51	51	51	51		
6	69	58	51	46	67	57	50	45	45	45	45	45	45	45	45	45		
7	64	53	46	41	62	52	45	40	40	40	40	40	40	40	40	40		
8	60	49	42	37	58	48	41	36	36	36	36	36	36	36	36	36		
9	56	45	38	33	55	44	38	33	33	33	33	33	33	33	33	33		
10	53	42	35	30	51	41	35	30	30	30	30	30	30	30	30	30		

### LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	5671	32.2	34.5
0-40	8911	50.6	54.2
0-60	13694	77.8	83.2
0-90	14867	84.5	90.4
90-180	1584	9.0	9.6
0-180	16450	93.5	100.0

1477.1-IF

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