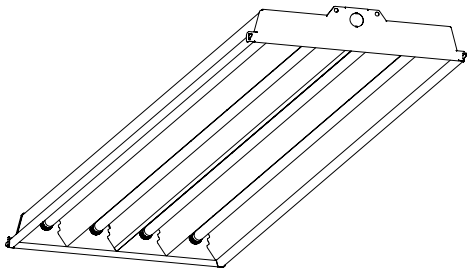
Day-Brite CFI by Signify

Industrial

FBF high bay

T8 or T5HO



Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI FBF fluorescent high bay is a flexible luminaire designed to meet the needs of today's industrial environment. This luminaire is available with T5HO or T8 lamps. The 95% reflective specular aluminum reflectors and solid body design result in a sturdy and efficient luminaire. A variety of mounting methods and accessories allow the luminaire to be used in many different types of applications.

Ordering guide

Example: FBD654HO-UNV-1/42-EB

Family	Lamp Quantity	Lamp Type/ Wattage	Voltage	Ballast	Options
		–	–	–	
FBF Single Unit **TFBF** Tandem (3 & 4 lamp only)	**3** **4** **6**	**32** 32WT8 (48") **54HO** 54WT5HO (46")	**UNV** (108-305V) **120** **277** **347** **480**	**1/3-EB** One 3 lamp electronic ballast (FBF only) **1/3-EBH** One 3 lamp electronic ballast, high ballast factor (32W T8 only) **1/4-EB** One 4 lamp electronic ballast (FBF only) **1/4-EB-2LS** One 4 lamp electronic ballast with 2 level switching (54W T5HO FBF only) **1/4-EBH** One 4 lamp electronic ballast, high ballast factor (32W T8 FBF only) **2/2-EB** Two 2 lamp electronic ballasts **2/2-EBH** Two 2 lamp electronic ballasts, high ballast factor (32W T8 FBF only) **2/3-EBH** Two 3 lamp electronic ballasts, high ballast factor (32W T8 only) **3/2-EBH** Three 2 lamp electronic ballasts, high ballast factor (32W T8 only) **1/42-EBH** One 4 lamp and one 2 Lamp electronic ballast, high ballast factor (32W T8 only) **1/42-EB** One 4 lamp and one 2 lamp electronic ballast **2/4-EB** Two 4 lamp electronic ballasts **2/4-EBH** Two 4 lamp electronic ballasts, high ballast factor (32W T8 TFBF only) **4/2-EBH** Four 2 lamp electronic ballasts, high ballast factor (32W T8 TFBF only)	**GLR** Fusing, fast blow **WC3** Wired 3'Cord **WP3** Wired 3' Cord and Plug Assembly (specify voltage) **U** Uplight (Uplight is not field adjustable on 3 lamp TFBF) **PAF** Painted After Fabrication **WT** Optional White Reflector **HS** Hang Straight (req'd when using FBF-PENHGR and a hook) **E7LP** LP550 emerg. ballast T5/T5HO/T8, 430-700 lumens, 120/277V **E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO/T8, 750-1325 lumens, 120/277V **E5LP** B50LP emerg. ballast T8, 1375-1400 lumens, 120/277V **MD360** Installed motion detector

Accessories (order separately)

- **FBF/FBE CHAIN KIT** 54" chains & V brackets
- **FBF/FBE-GRIP5** 5' cables & V brackets
- **WG-FBF4** 4 Lamp Wire Guard (2 required for TFBF)
- **WG-FBF6** 6 Lamp Wire Guard
- **MD180** Motion Detector with linear coverage (e.g. aisles) 120/277V
- **MD360** Motion Detector with circular cover (e.g. open areas) 120V/277V
- **MD360-480** Motion Detector (480V)
- **FBF-4E-1W** Single gasketed door with clear acrylic lens – 4 lamp unit (4ft. unit only)
- **FBF-4E-1W-DB21** Single gasketed door with prismatic lens – 4 lamp unit (4ft. unit only)
- **FBF-4E-2W** Double gasketed door with clear acrylic lens – 4 lamp unit (4ft. unit only)
- **FBF-6E-1W** Single gasketed door with clear acrylic lens – 6 lamp unit (4ft. unit only)
- **FBF-6E-1W-DB21** Single gasketed door with prismatic lens – 6 lamp unit (4ft. unit only)
- **FBF-6E-2W** Double gasketed door with clear acrylic lens – 6 lamp unit (4ft. unit only)
- **FBF-PENHGR** Pendant Hanger (4ft. unit only)
- **FBF-JB** Junction Box (used with FBF-PENHGR to conceal wiring)

General Notes

- All options factory installed.
- All accessories are field installed.

FBF fluorescent high bay

T8 or T5HO

Application

- The FBF Fluorescent High Bay Luminaire features a solid enclosure design for an efficient alternative in industrial lighting applications.

Construction/Finish

- Steel housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Reflectors are fabricated from 95% reflective specular aluminum to maximize luminaire efficiency and control light distribution.
- Electronic ballast(s).
- 7/8" knockout for wiring or motion detection.
- Uplight apertures in housing and reflectors when the "U" option is specified. Uplight is field adjustable by rotating reflectors 180° along the axis of the luminaire.
- Optional heavy duty mounting chains and hangers or cables and hangers (ordered separately).
- Rotating ring, locking type lampholders for T5/HO lamps and locking type for T8 lamps.
- Optional cord and plug assembly for easy electrical disconnect.

Electrical

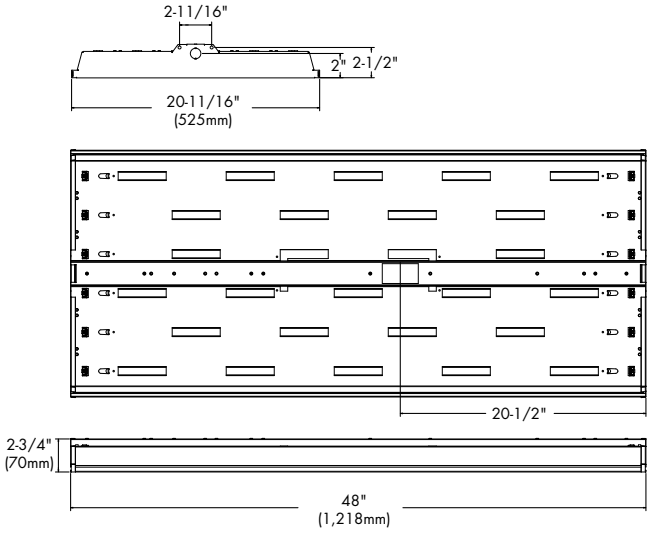
- cULus listed suitable for use in 40°C ambient and damp locations.

Energy Data

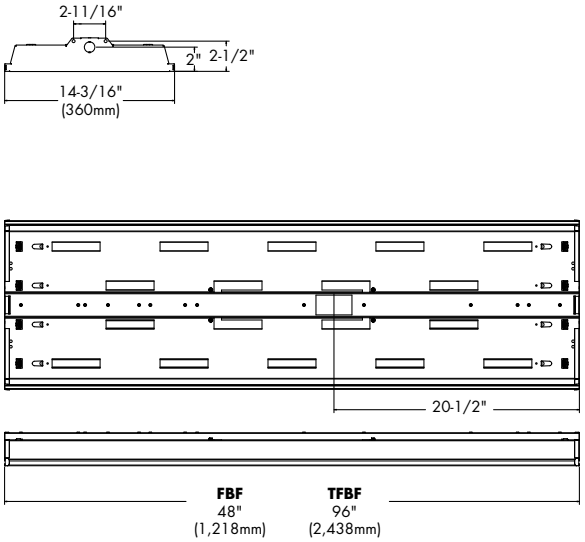
Lamp Watts	Ballast Type	Input Watts
32	1/4-EBH 2/2-EBH 2/3-EBH 3/2-EBH 1/42-EBH 4/2-EBH	146 148 222 231 220 296
54	1/4-EB-2LS 2/2-EB 1/42-EB 2/4-EB	240 236 358 480

Dimensions

6 Lamp



4 Lamp



FBF fluorescent high bay

T8 or T5HO

Photometry

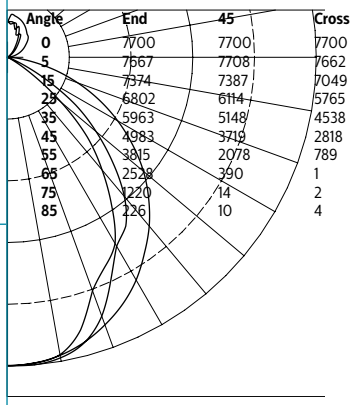
4 Lamp F54T5HO with uplight — Efficiency – 93.5% — LER – 69 — TER – 37

Catalog No.	FBF454HO-2/2-EB-U
Test No.	25219
Medium Spread S/MH	1.1
Lamp Type	F54T5HO
Lumens/Lamp	4400
Ballast Factor	1.0
Input Watts	237

Comparative yearly lighting energy cost per 1000 lumens – **$3.48** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

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	2538	390	1
75	1220	14	2
85	226	10	4

Light Distribution

Degrees Luminaire	Lumens	% Lamp	%
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

Average Brightness

Zone	End	45	Cross
45	16856	12581	9533
55	15910	8666	3290
65	14308	2207	6
75	11275	129	18
85	6203	274	110

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceil	80				70				50			30			10		
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	106	106	106	106	99	99	99	93	93	93	87	87	87
1	102	98	95	92	98	95	92	90	90	87	85	85	83	81	80	79	77
2	94	88	83	78	91	85	81	77	81	77	74	76	73	71	72	70	68
3	87	79	72	67	84	77	71	66	73	68	64	69	65	62	66	62	60
4	80	71	64	58	78	69	63	58	66	60	56	63	58	54	60	56	53
5	75	64	57	51	72	63	56	51	60	54	49	57	52	48	54	50	47
6	69	58	51	46	67	57	50	45	54	48	44	52	47	43	50	45	42
7	64	53	46	41	62	52	45	40	50	44	39	48	43	39	46	41	38
8	60	49	42	37	58	48	41	36	46	40	36	44	39	35	42	38	34
9	56	45	38	33	55	44	38	33	43	37	32	41	36	32	39	35	31
10	53	42	35	30	51	41	35	30	39	34	30	38	33	29	37	32	29

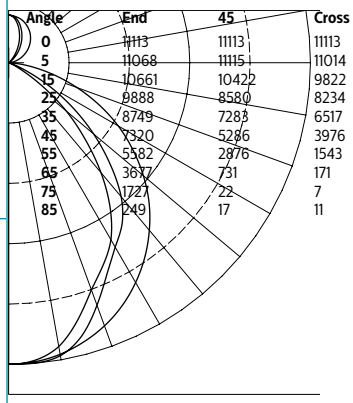
6 Lamp F54T5HO with uplight — Efficiency – 91.3% — LER – 69 — TER – 36

Catalog No.	FBF654HO-1/42-EB-U
Test No.	25362
Medium Spread S/MH	1.0
Lamp Type	F54T5HO
Lumens/Lamp	4400
Ballast Factor	1.0
Input Watts	352

Comparative yearly lighting energy cost per 1000 lumens – **$3.53** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower



Angle	End	45	Cross
0	11113	11113	11113
5	11068	11115	11014
15	10661	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

Light Distribution

Degrees Luminaire	Lumens	% Lamp	%
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

Average Brightness

Zone	End	45	Cross
45	15195	10973	8253
55	14285	7360	3949
65	12771	2539	594
75	9794	125	40
85	4193	286	185

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceil	80				70				50			30			10		
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	103	103	103	103	96	96	96	90	90	90	85	85	85
1	99	96	93	90	96	93	90	87	87	85	83	82	80	79	78	76	75
2	92	85	80	76	88	83	78	74	78	74	71	74	71	68	70	68	65
3	85	76	70	65	82	74	69	64	70	66	62	67	63	59	63	60	57
4	78	69	62	56	75	67	61	56	64	58	54	60	56	52	58	54	51
5	72	62	55	50	70	61	54	49	58	52	48	55	50	46	52	48	45
6	67	56	49	44	65	55	48	43	53	47	42	50	45	41	48	44	40
7	63	51	44	39	61	50	44	39	48	42	38	46	41	37	44	40	36
8	58	47	40	35	57	46	40	35	44	38	34	43	37	34	41	36	33
9	55	44	37	32	53	43	36	32	41	35	31	39	34	31	38	33	30
10	51	40	34	29	50	40	33	29	38	32	28	37	32	28	35	31	27

Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Signify

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