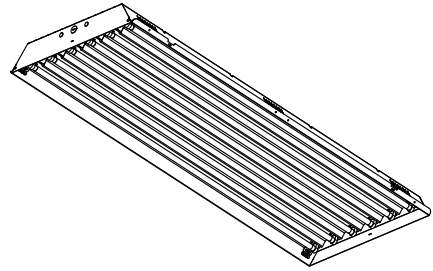


FBD FLUORESCENT HIGH BAY LUMINAIRE

T8 or T5/HO Fluorescent



JOB NAME _____

TYPE _____

The FBD Fluorescent High Bay Luminaire features 95% reflective aluminum reflectors and a solid enclosure design for an efficient alternative in industrial lighting applications.

ORDERING MATRIX

SAMPLE CATALOG NUMBER: FBD654HO-UNV-1/42-EB

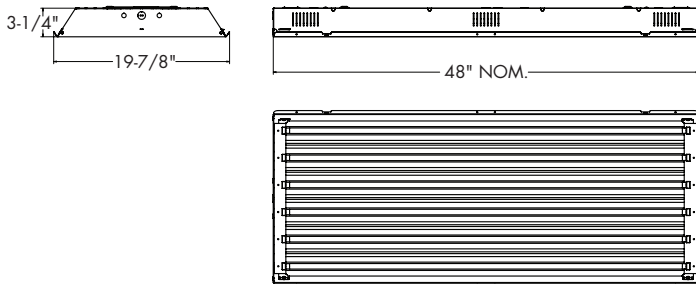
FBD						
FAMILY FBD		LAMP TYPE/WATTAGE 32 - 32WT8 (48") 54HO - 54WT5HO (46")			BALLAST	OPTIONS
	LAMP QUANTITY 4 6		VOLTAGE UNV (108-305V) 120 277 HRV (347-480V) 54HO: 1/4-EB, 2/2-EB, 3/2-EB and 1/42-EB only.		1/4-EB-2LS - One 4 Lamp Electronic Ballast with 2 Level Switching (54W T5HO only) 1/4-EBH - One 4 Lamp Electronic Ballast, High Ballast Factor (32w T8 only) 2/2-EB - Two 2 Lamp Electronic Ballasts (54W T5HO only) 2/2-EBH - Two 2 Lamp Electronic Ballasts, High Ballast Factor (32W T8 only) 2/3-EBH - Two 3 Lamp Electronic Ballasts, High Ballast Factor (32W T8 only) 3/2-EB - Three 2 Lamp Electronic Ballasts, (54W T5HO 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 Ballasts, High Ballast Factor (32w T8 only) 1/42-EB - One 4 Lamp and one 2 lamp Electronic Ballasts (54W T5HO only)	GLR# - Fusing, Fast Blow (# = number of ballasts) WC3 - Wired 3' Cord WP3 - Wired 3' Cord and Plug Assembly (Specify Voltage) CP - Center Mount for 3/4" Conduit CH - Center Mount with Hook WT - Optional White Reflector E7LP - DEB-7LP emerg. ballast, T5/T5HO/T8 lamps, 430-700 lumens E6LP - DEB-6LP emerg. ballast, T5/T5HO/T8 lamps, 750-1325 lumens E5LP - DEB-5LP emerg. ballast, T8 lamps, 1375-1400 lumens LPT841 - Installed T8/T5/T5HO lamps, 80+CRI 4100K
ACCESSORIES (ORDER SEPARATELY)						
TBNGUARD - 4 Lamp Wire Guard TBWGUARD - 6 Lamp Wire Guard TSMTG - Mounting Plate with Chains & Hooks MD360 - Motion Detector (120V and 277V) MD480 - Motion Detector (480V) TBNLENS-CL - Single Gasketed Door with Clear Acrylic Lens - 4 lamp unit TBWLENS-CL - Single Gasketed Door with Clear Acrylic Lens - 6 lamp unit FBF/FBE CHAIN KIT - 54" chains & V brackets FBF/FBE-GRIP5 - 5' cables & V brackets						
ENERGY DATA						
	LAMP WATTS	BALLAST TYPE	INPUT WATTS			
	32	1/4-EBH 2/2-EBH 2/3-EBH 3/2-EBH 1/42-EBH	146 148 222 222 222			
	54	1/4-EB 2/2-EB 1/42-EB 3/2-EB	240 240 360 360			

General Notes:

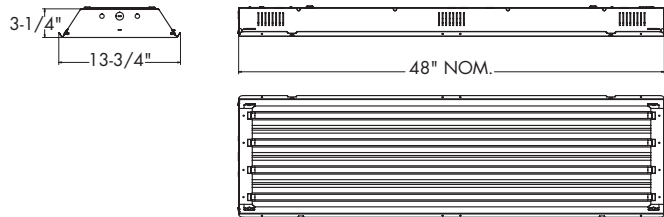
All options factory installed.
All accessories are field installed.
"EBH" for T8 lamps is 1.15-1.2 BF.
"EB" for T5HO lamps is 1.0 BF.

DIMENSIONS

6 LAMP



4 LAMP



FBD-FLUORESCENT HIGH BAY LUMINAIRE

HB-10032

PHOTOMETRICS

DISTRIBUTION CURVE		COEFFICIENTS OF UTILIZATION										AVERAGE BRIGHTNESS				ZONAL SUMMARY				CANDLEPOWER											
		EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (ρ _f =0.20)										ZONE	END	45	CROSS	Degrees	Lumens	% Lamp	% Fixture	Angle	Avg. Candela	Angle Candela	Avg.								
		Ceil	80	70	50	30	10	45	15453	12703	10025	0-30	7511	28.5	33.1	0	9380	9380	9380												
		Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	55	14419	9787	7517	0-40	11914	45.1	52.5	5	9534	9429	9421			
		RCR	0	102	102	102	100	100	100	95	95	95	91	91	91	88	88	88	65	12671	7472	8739	0-60	19091	72.3	84.2	15	9174	9600	9754	
		1	94	91	87	84	92	89	86	83	85	83	80	82	80	78	79	77	76	75	9860	7526	5813	0-90	22684	85.9	100.0	25	8503	9060	7919
		2	87	80	75	70	84	78	73	69	75	71	68	73	69	66	70	67	65	85	4146	3144	3144	0-180	22684	85.9	100.0	35	7522	6967	6088
		3	79	71	64	59	77	70	64	59	67	62	58	65	60	57	63	59	56	COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.38 BASED ON 3000 HRS. AND \$.08 PER KWH. LER=71				45	6260	5146	4061				
		4	73	63	56	51	71	62	56	51	60	55	50	58	53	49	56	52	49					55	4738	3216	2470				
		5	68	57	50	44	66	56	49	44	54	48	44	53	47	43	51	47	43	65	3068	1809	2116								
		6	63	52	44	39	61	51	44	39	49	43	39	48	43	38	47	42	38	75	1462	1116	862								
		7	58	47	40	35	57	47	40	35	45	39	35	44	38	34	43	38	34	85	207	157	157								
8	54	43	36	31	53	43	36	31	42	35	31	41	35	31	40	35	31	These photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.													
9	51	40	33	28	50	39	33	28	38	32	28	37	32	28	37	32	28														
10	48	37	30	26	47	36	30	26	36	30	26	35	29	26	34	29	26														

DISTRIBUTION CURVE		COEFFICIENTS OF UTILIZATION										AVERAGE BRIGHTNESS				ZONAL SUMMARY				CANDLEPOWER											
		EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (ρ _f =0.20)										ZONE	END	45	CROSS	Degrees	Lumens	% Lamp	% Fixture	Angle	Avg. Candela	Angle Candela	Avg.								
		Ceil	80	70	50	30	10	45	15751	12619	10229	0-30	5088	28.9	33.5	0	6214	6214	6214												
		Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	55	14811	9857	8140	0-40	8038	45.7	52.9	5	6263	6309	6396			
		RCR	0	103	103	103	100	100	100	96	96	96	92	92	92	88	88	88	65	13161	7908	8577	0-60	12843	73.0	84.5	15	6030	6544	6614	
		1	95	91	88	85	93	89	86	83	86	83	81	82	80	78	79	78	76	75	10428	7288	5032	0-90	15196	86.3	100.0	25	5588	6032	5418
		2	87	80	75	71	85	79	74	70	76	72	68	73	70	67	71	68	65	85	4847	4847	5434	0-180	0	0.0	0.0	35	4956	4734	3977
		3	80	71	65	60	78	70	64	59	68	62	58	65	61	57	63	59	56	COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.89 BASED ON 3000 HRS. AND \$.08 PER KWH. LER=83				45	4139	3316	2688				
		4	74	64	57	51	72	63	56	51	61	55	50	59	54	50	57	53	49					55	3157	2101	1735				
		5	68	58	50	45	66	57	50	45	55	49	44	53	48	44	52	47	43	65	2067	1242	1347								
		6	63	52	45	40	61	51	44	39	50	44	39	48	43	39	47	42	38	75	1003	701	484								
		7	59	48	40	35	57	47	40	35	46	39	35	44	39	35	43	38	34	85	157	157	176								
8	55	44	37	32	53	43	36	32	42	36	31	41	35	31	40	35	31	These photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.													
9	51	40	33	29	50	40	33	29	39	33	29	38	32	28	37	32	28														
10	48	37	31	26	47	37	30	26	36	30	26	35	30	26	34	29	26														

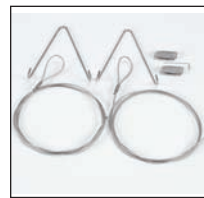
PRODUCT FEATURES

UL 1598 Listed suitable for damp location and 45°C ambient.

1. Heavy duty mounting chains or cables with hangers (order separately).
2. 95% reflective aluminum reflectors maximize luminaire efficiency and control light distribution.
3. Steel housing with white polyester powder finish.
4. Electronic ballast(s).



BFB/FBE CHAIN KITS



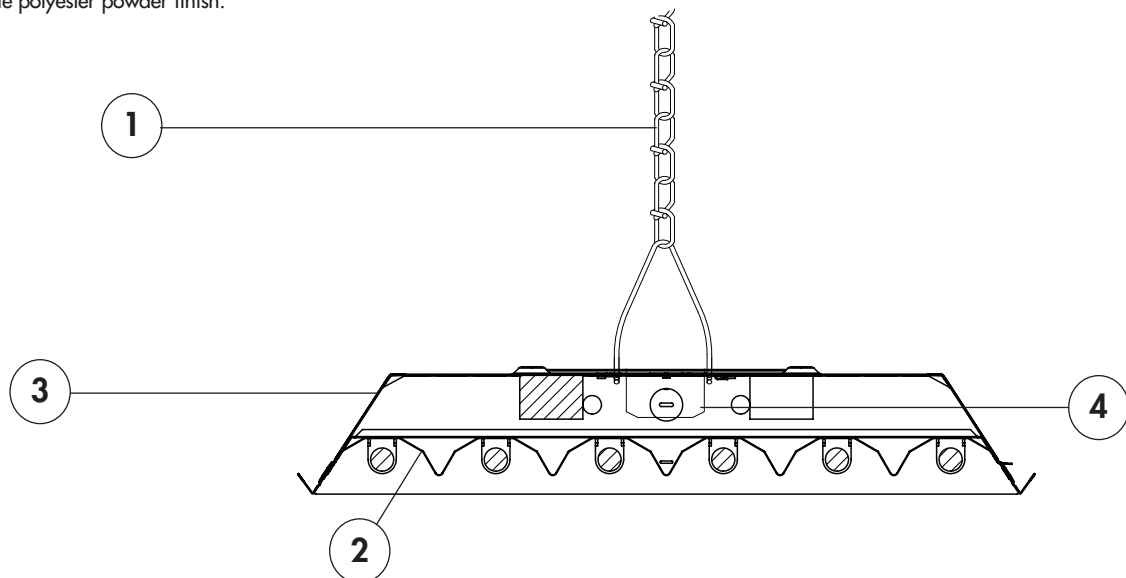
BFB/FBE-GRIP5



TSMTG



MD360



HB-10032

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PHILIPS
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