



4' Nominal Style



2' Nominal Style



**Class I, Div. 2 Groups A,B,C,D**  
**Class I, Zones 2, Groups IIC, IIB, IIA**  
**Class II, Div. 1 & 2, Groups F,G**  
**AEx nAII, Ex nAII**  
**Wet Locations**  
**NEMA 4X, IP66**

Certified - File LR11713

**ABS** Type Approval  
**NSF** (Food Handling) pending

### FEATURES-SPECIFICATIONS

## LINEARLITE® \*

\* marca registrada MEXICO

### Applications

LINEARLITE® rugged Non-Metallic fluorescent fixtures are suitable for wet, harsh and hazardous locations. Use where enclosed and gasketed fixtures are required to withstand exposure to moisture, dust and corrosives. The LZ2N Series can also be used in Class I, Division 2 and Zone 2 hazardous vapors and in Class II areas where combustible dusts may exist. Typical areas used are in refineries, chemical plants, waste water & sewage treatment facilities, as well as in tunnels, food processing and coastal areas.

**ABS** (American Bureau of Shipping) type approval for use on decks, vessels, platforms, barges, ships and boats. Also suitable for docks and marinas.

### Features

- NEMA 4 & IP66 rated enclosure
- Housing-one piece fiberglass reinforced polyester
- Lense-Clear Lexan® impact resistant polycarbonate
- Two 3/4" NTP aluminum hubs - one at each end (includes one 3/4" close-up plug and two 3/4" x 1/2" reducers for maximum user flexibility)
- Two 1/4"-20 aluminum bushings furnished in top of fixture for threaded rod

Lexan® is a registered trademark of General Electric

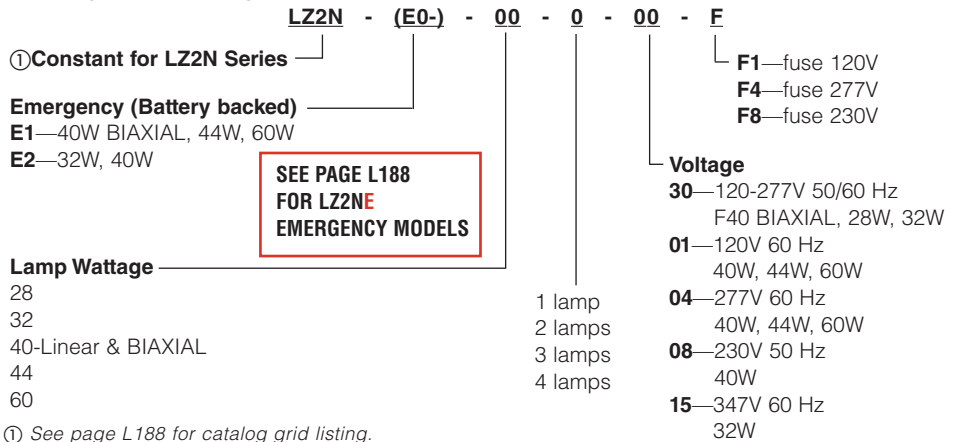
### Product Range

- 2' and 4' luminaries
- Lamp types-  
Linear 28W, 32W, 40W, 44W, 60W  
Long compact 40W (single ended)
- Emergency battery-backed
- Electronic ballast standard
- World voltage (most models) 120 thru 277V, 50/60 Hz



Quick release diffuser clamp and hinged cover requires no special tools.

### Catalog Number Logic



LZ2N, LZ2NE HAZARDOUS LOCATION APPLICATION DATA										
NUMBER OF LAMPS/WATTS	RATED AMBIENT °C	SUITABLE FOR °C SUPPLY WIRE	CLASS I, DIV. 2 MAX. SURFACE TEMP.			CLASS II, DIV. 1 & 2 MAX. SURFACE TEMP.			CLASS III DIV. 1 & 2 SUITABILITY	NEMA 4X IP66
			TEMP.	T-CODE	GROUPS	TEMP.	T-CODE	GROUPS		
1 X 40W BIAxIAL	40°	60	100°C	T5	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
2 X 40W BIAxIAL	40°	60	100°C	T5	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
4 X 40W BIAxIAL	40°	60	120°C	T4A	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
2 X 28W	40°	60	120°C	T4A	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
3 X 28W	40°	60	120°C	T4A	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
2 X 32W	40°	75	85°C	T6	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
3 X 32W	40°	75	85°C	T6	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
2 X 40W	40°	60	120°C	T4A	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
2 X 44W	40°	60	100°C	T5	A, B, C, D	100°C	T5	E, F, G	Yes	Yes
2 X 60W	40°	75	135°C	T4	A, B, C, D	100°C	T5	E, F, G	Yes	Yes



**KILLARK®**



4' Nominal Style



2' Nominal Style



**Class I, Div. 2 Groups A,B,C,D**  
**Class I, Zones 2, Groups IIC, IIB, IIA**  
**Class II, Div. 1 & 2, Groups F,G**  
**AEx nAII, Ex nAII**  
**Wet Locations**  
**NEMA 4X, IP66**

Certified - File LR11713

**ABS** Type Approval

**NSF** (Food Handling) pending

**FEATURES-SPECIFICATIONS**

LZ2N, LZ2NE NON-METALLIC			
NUMBER OF LAMPS/WATTS	VOLTAGE AC 60 Hz	DESCRIPTION	LZ2N
<b>BIAXIAL LAMP TYPE FIXTURES</b>			
1-40W	120-277V	2' 1-Lamp Biaxial Electronic 50/60 Hz 0°F Start 4-Pin	<b>LZ2N40130</b>
2-40W	120-277V	2' 2-Lamp Biaxial Electronic 50/60 Hz 0°F Start 4-Pin	<b>LZ2N40230</b>
4-40W	120-277V	4' 4-Lamp Biaxial Electronic 50/60 Hz 0°F Start 4-Pin	<b>LZ2N40430</b>
<b>DOUBLE-ENDED LAMP TYPE FIXTURES</b>			
2-28W	120-277V 50-60 Hz	4' 2-Lamp T-5 Electronic 0°F Start Miniature Bi-Pin	<b>LZ2N28230</b>
3-28W	120-277V 50-60 Hz	4' 3-Lamp T-5 Electronic 0°F Start Miniature Bi-Pin	<b>LZ2N28330</b>
2-32W	120-277V 347V	4' 2-Lamp T-8 Electronic 50/60 Hz 0°F Start Miniature Bi-Pin	<b>LZ2N32230</b> <b>LZ2N32215</b>
3-32W	120-277V 347V	4' 3-Lamp T-8 Electronic 50/60 Hz 0°F Start Miniature Bi-Pin	<b>LZ2N32330</b> <b>LZ2N32315</b>
2-40W	120V 277V 230V 50 Hz	4' 2-Lamp T-12 Electronic Medium Bi-Pin Start 50°F 40W/60°F 34W	<b>LZ2N40201</b> <b>LZ2N40204</b> <b>LZ2N40208</b>
2-44W	120V 277V	4' 2-Lamp T-8 Electronic -20°F Start High Output Recessed Double Contact	<b>LZ2N44201</b> <b>LZ2N44204</b>
2-60W	120V 277V	4' 2-Lamp T-12 Electronic -20°F Start High Output Recessed Double Contact	<b>LZ2N60201</b> <b>LZ2N60204</b>

For optional fused ballasts, add to catalog number F1 for 120V, F4 for 277V, F8 for 230V. Fusing not for marine or Canadian use. Lamps not included. See optional mounting accessories on following page.

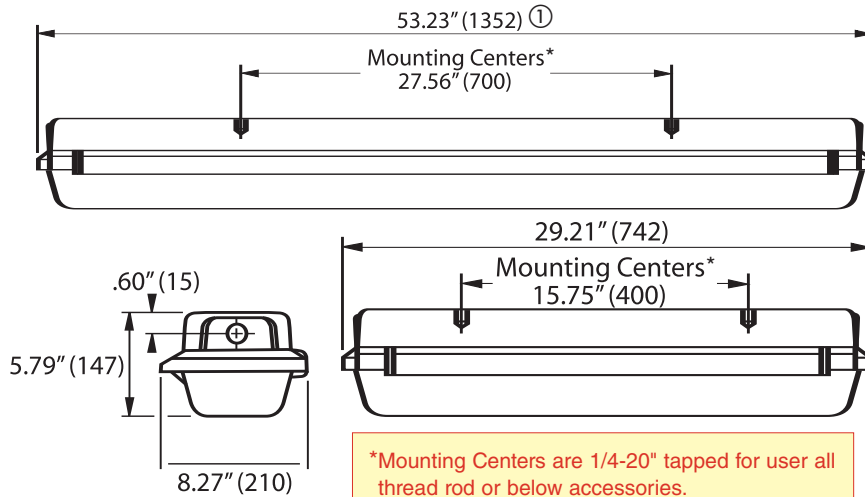
<b>REPLACEMENT BATTERY UNIT</b>
<b>KFBP7</b>

EMERGENCY LUMEN CHART	
LAMPS	INITIAL LUMENS
1 X 40W BIAxIAL	625
2 X 32W	850
2 X 40W	610
1 X 44W	700
1 X 60W	780

LZ2N <sup>①</sup>					
NUMBER OF LAMPS/WATTS	VOLTAGE	LINE CURRENT AMPS		INPUT WATTS	STARTING TEMPERATURE
1 X 40W BIAxIAL	120-277V	.35 (120V)	.15 (277V)	39	0°F (-18°C)
2 X 40W BIAxIAL	120-277V	.60 (120V)	.28 (277V)	78	0°F (-18°C)
4 X 40W BIAxIAL	120-277V	1.32 (120V)	.56 (277V)	156	0°F (-18°C)
2 X 28W	120-277V	.55 (120V)	.23 (277V)	66	0°F (-18°C)
3 X 28W	120-277V	.83 (120V)	.35 (277V)	99	0°F (-18°C)
2 X 32W	120-277V	.54 (120V)	.24 (277V)	65	0°F (-18°C)
3 X 32W	120-277V	.71 (120V)	.31 (277V)	85	0°F (-18°C)
2 X 40W	120-277V	.62 (120V)	.24 (277V)	71	50°F (10°C)
2 X 44W	120-277V	.84 (120V)	.36 (277V)	99	-20°F (-29°C)
2 X 60W	120-277V	1.13 (120V)	.48 (277V)	125	-20°F (-29°C)



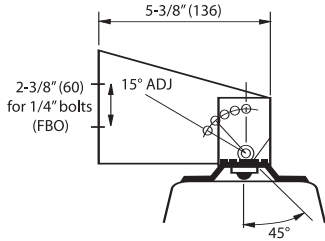
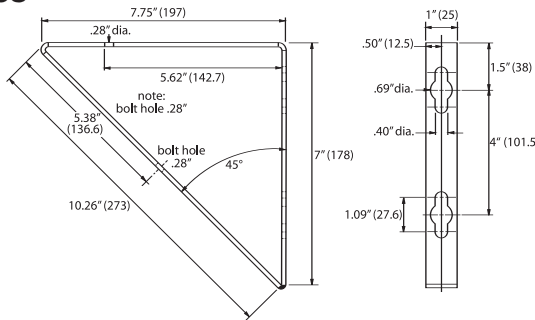
① Includes normal powered LZ2NE models.



\*Mounting Centers are 1/4"-20" tapped for user all thread rod or below accessories.

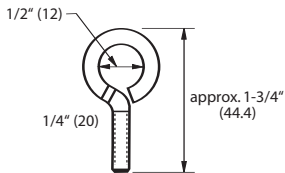
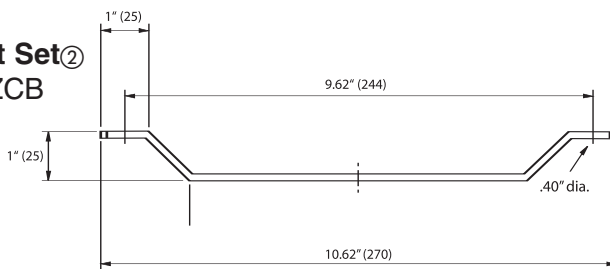
### Mounting Accessories

**Wall Bracket Set** ②  
Part Number LZWB  
Stainless Steel  
(natural finish)



**Adjustable Wall Bracket Set** ②  
Part Number LZAB  
Stainless Steel (white finish) bracket with ceramic coated pivot bolt

**Ceiling Bracket Set** ②  
Part Number LZCB  
Stainless Steel  
(natural finish)



**Eyebolt Set**  
Part Number LZEB  
Stainless Steel bolt with lockwasher & nut  
(natural finish)

**Suspension Chains (2 required)**  
Part Number HFX-SC  
36" length plated steel chain with snap link ends  
For use with LZEB

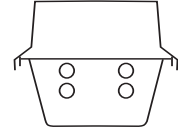
### FLUORESCENT FIXTURE- LZ2N40230

2' - 2 40 Watt Biaxial  
Lamp Type F40/2G11/835/RS  
Lumens 3150 each

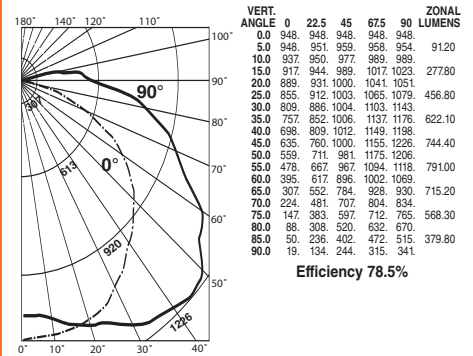
**Total Bare Lamp  
Lumens 6300**

All data provided is for  
F40/2G11/835/RS lamps

For LZ2N40130 1-lamp  
models multiply x .50



ZONAL LUMENS	
0-30	826
0-40	1447
0-60	2977
0-90	4638



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

% EFFECTIVE CEILING CAVITY REFLECTANCE $t_{cc}$	80					70					50					30					10					0																																																																						
	70	50	30	10	0	70	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0	50	30	10	0																																																																						
% WALL REFLECTANCE $t_w$	20% Effective Floor Cavity Reflectance																																																																																															
ROOM CAVITY RATIO RCR	20% Effective Floor Cavity Reflectance																																																																																															
0	.92	.92	.92	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76	.76	.76	.74	.92	.92	.92	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76	.76	.76	.74	.92	.92	.92	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76	.76	.76	.74	.92	.92	.92	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76	.76	.76	.74	.92	.92	.92	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76	.76	.76	.74	.92	.92	.92	.90	.90	.90	.84	.84	.84	.80	.80	.80	.76	.76	.76	.74
1	.81	.76	.72	.68	.79	.74	.70	.66	.70	.66	.63	.66	.63	.61	.62	.60	.58	.56	.81	.76	.72	.68	.79	.74	.70	.66	.70	.66	.63	.66	.63	.61	.62	.60	.58	.56	.81	.76	.72	.68	.79	.74	.70	.66	.70	.66	.63	.66	.63	.61	.62	.60	.58	.56	.81	.76	.72	.68	.79	.74	.70	.66	.70	.66	.63	.66	.63	.61	.62	.60	.58	.56	.81	.76	.72	.68	.79	.74	.70	.66	.70	.66	.63	.66	.63	.61	.62	.60	.58	.56						
2	.73	.65	.58	.53	.70	.63	.57	.52	.59	.54	.50	.56	.52	.48	.53	.49	.46	.44	.73	.65	.58	.53	.70	.63	.57	.52	.59	.54	.50	.56	.52	.48	.53	.49	.46	.44	.73	.65	.58	.53	.70	.63	.57	.52	.59	.54	.50	.56	.52	.48	.53	.49	.46	.44	.73	.65	.58	.53	.70	.63	.57	.52	.59	.54	.50	.56	.52	.48	.53	.49	.46	.44	.73	.65	.58	.53	.70	.63	.57	.52	.59	.54	.50	.56	.52	.48	.53	.49	.46	.44						
3	.65	.56	.48	.42	.63	.54	.47	.42	.51	.45	.40	.48	.43	.39	.45	.41	.37	.35	.65	.56	.48	.42	.63	.54	.47	.42	.51	.45	.40	.48	.43	.39	.45	.41	.37	.35	.65	.56	.48	.42	.63	.54	.47	.42	.51	.45	.40	.48	.43	.39	.45	.41	.37	.35	.65	.56	.48	.42	.63	.54	.47	.42	.51	.45	.40	.48	.43	.39	.45	.41	.37	.35	.65	.56	.48	.42	.63	.54	.47	.42	.51	.45	.40	.48	.43	.39	.45	.41	.37	.35						
4	.59	.49	.41	.35	.57	.47	.40	.34	.45	.38	.33	.42	.37	.32	.40	.35	.31	.29	.59	.49	.41	.35	.57	.47	.40	.34	.45	.38	.33	.42	.37	.32	.40	.35	.31	.29	.59	.49	.41	.35	.57	.47	.40	.34	.45	.38	.33	.42	.37	.32	.40	.35	.31	.29	.59	.49	.41	.35	.57	.47	.40	.34	.45	.38	.33	.42	.37	.32	.40	.35	.31	.29	.59	.49	.41	.35	.57	.47	.40	.34	.45	.38	.33	.42	.37	.32	.40	.35	.31	.29						
5	.54	.43	.35	.29	.52	.42	.34	.29	.39	.33	.28	.37	.32	.27	.35	.30	.26	.24	.54	.43	.35	.29	.52	.42	.34	.29	.39	.33	.28	.37	.32	.27	.35	.30	.26	.24	.54	.43	.35	.29	.52	.42	.34	.29	.39	.33	.28	.37	.32	.27	.35	.30	.26	.24	.54	.43	.35	.29	.52	.42	.34	.29	.39	.33	.28	.37	.32	.27	.35	.30	.26	.24	.54	.43	.35	.29	.52	.42	.34	.29	.39	.33	.28	.37	.32	.27	.35	.30	.26	.24						
6	.50	.38	.30	.25	.48	.37	.30	.25	.35	.29	.24	.33	.28	.23	.32	.27	.23	.21	.50	.38	.30	.25	.48	.37	.30	.25	.35	.29	.24	.33	.28	.23	.32	.27	.23	.21	.50	.38	.30	.25	.48	.37	.30	.25	.35	.29	.24	.33	.28	.23	.32	.27	.23	.21	.50	.38	.30	.25	.48	.37	.30	.25	.35	.29	.24	.33	.28	.23	.32	.27	.23	.21	.50	.38	.30	.25	.48	.37	.30	.25	.35	.29	.24	.33	.28	.23	.32	.27	.23	.21						
7	.46	.34	.27	.22	.44	.33	.26	.21	.32	.25	.21	.30	.25	.20	.29	.24	.20	.18	.46	.34	.27	.22	.44	.33	.26	.21	.32	.25	.21	.30	.25	.20	.29	.24	.20	.18	.46	.34	.27	.22	.44	.33	.26	.21	.32	.25	.21	.30	.25	.20	.29	.24	.20	.18	.46	.34	.27	.22	.44	.33	.26	.21	.32	.25	.21	.30	.25	.20	.29	.24	.20	.18	.46	.34	.27	.22	.44	.33	.26	.21	.32	.25	.21	.30	.25	.20	.29	.24	.20	.18						
8	.43	.31	.24	.19	.41	.30	.24	.19	.29	.23	.18	.27	.22	.18	.26	.21	.17	.16	.43	.31	.24	.19	.41	.30	.24	.19	.29	.23	.18	.27	.22	.18	.26	.21	.17	.16	.43	.31	.24	.19	.41	.30	.24	.19	.29	.23	.18	.27	.22	.18	.26	.21	.17	.16	.43	.31	.24	.19	.41	.30	.24	.19	.29	.23	.18	.27	.22	.18	.26	.21	.17	.16	.43	.31	.24	.19	.41	.30	.24	.19	.29	.23	.18	.27	.22	.18	.26	.21	.17	.16						
9	.40	.28	.21	.17	.38	.28	.21	.17	.26	.20	.16	.25	.20	.16	.24	.19	.16	.14	.40	.28	.21	.17	.38	.28	.21	.17	.26	.20	.16	.25	.20	.16	.24	.19	.16	.14	.40	.28	.21	.17	.38	.28	.21	.17	.26	.20	.16	.25	.20	.16	.24	.19	.16	.14	.40	.28	.21	.17	.38	.28	.21	.17	.26	.20	.16	.25	.20	.16	.24	.19	.16	.14	.40	.28	.21	.17	.38	.28	.21	.17	.26	.20	.16	.25	.20	.16	.24	.19	.16	.14						
10	.37	.26	.19	.15	.36	.25	.19	.15	.24	.19	.15	.23	.18	.14	.22	.17	.14	.12	.37	.26	.19	.15	.36	.25	.19	.15	.24	.19	.15	.23	.18	.14	.22	.17	.14	.12	.37	.26	.19	.15	.36	.25	.19	.15	.24	.19	.15	.23	.18	.14	.22	.17	.14	.12	.37	.26	.19	.15	.36	.25	.19	.15	.24	.19	.15	.23	.18	.14	.22	.17	.14	.12	.37	.26	.19	.15	.36	.25	.19	.15	.24	.19	.15	.23	.18	.14	.22	.17	.14	.12						

SPACING TO MOUNTING HEIGHT RATIO - 1.28 0-180°  
SPACING TO MOUNTING HEIGHT RATIO - 1.88 90-270°

Test No. BAL12356

① Dimensions in ( ) are millimeters.  
② Product accessories have hardware for attachment to fixture; hardware to attach to wall/ceiling F.B.O.





2' Nominal Style

4' Nominal Style



**Class I, Div. 1 & 2, Groups C,D**  
**Class I, Zones 1 & 2, Groups IIB, IIA**  
**Class II, Div. 1 & 2, Groups E,F,G**  
**Class III, Div. 1 & 2**  
**NEMA 3, 4X, 7(C,D) 9(E,F,G)**  
**Suitable for wet locations**  
**Suitable for paint spray booths**

Listed - File E12976 and E89665 (Marine)

Certified - File LR11713

### FEATURES-SPECIFICATIONS

#### Applications

Biaxial single ended lamp type HFX-T fixtures provide greater efficiency and lumen output than standard models. Designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water and snow can be expected. They can also be used in locations made hazardous due to the presence of flammable or explosive gases, vapors and combustible ducts as defined by the NEC.

Typical applications include classified areas such as inside paint spray booths, paint manufacturing plants, ammunition facilities, oil and gas producing and refining plants, off-shore and dockside installations, tank farms, pipeline pumping stations and marine loading and fuel transfer terminals.

#### Features

- UL Listed and labeled for use inside paint spray booths and rooms
- 2' nominal compact models facilitate use in areas too small for nominal 4' models, or where the light must be confined
- Standard ballast is 120-277V at 50/60 Hz<sup>①</sup>
- 0°F starting temperature

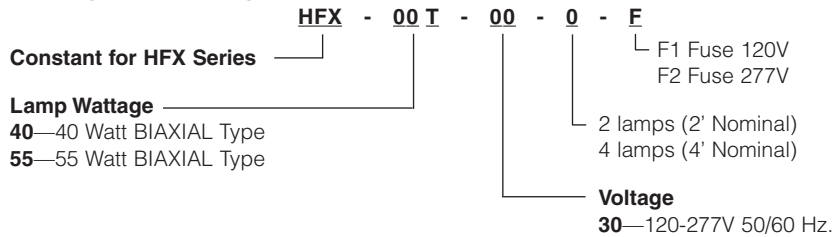
- Construction is strong lightweight corrosion resistant copper-free aluminum alloy, less than 4/10 of 1%
- All external hardware is corrosion resistant 316 stainless steel
- UL Listed externally fused ballast option; protects fixture on line side of ballast, prevents ballast burnout
- Suitable for use in both indoor and outdoor wet locations
- Relamping easily accomplished by removing screw in cap and socket

- Extruded aluminum reflectors are easily removable for cleaning. White baked enamel finish

#### Compliances

- UL-1570, Standard for Fluorescent Lighting Fixtures
- UL Marine Type Lighting Fixtures
- UL-844, Standard for Lighting Fixtures for Hazardous Locations
- CSA C22.2 137-M1981
- Meets requirements of NFPA 70-1987 Article 516 and NFPA standard 33

#### Catalog Number Logic



**SEE PAGE L  
FOR HFXE  
EMERGENCY MODELS**

HFX-T BIAxIAL TYPE LIGHT FIXTURES <sup>②</sup>				
CATALOG NUMBER	CONDUIT SIZE	LINE VOLTAGE	DESCRIPTION	PROFILE
HFX-40T-302	3/4"	120V-277V 50/60 Hz	2' 2 Lamp 40W BIAxIAL	
HFX-55T-302			2' 2 Lamp 55W BIAxIAL	
HFX-40T-304			4' 4 Lamp 40W BIAxIAL	
HFX-55T-304			4' 4 Lamp 55W BIAxIAL	

<sup>①</sup> See page L162 for ballast current information.

<sup>②</sup> Consult HFX page L163 for dimensions and accessories. Photometrics on following page.

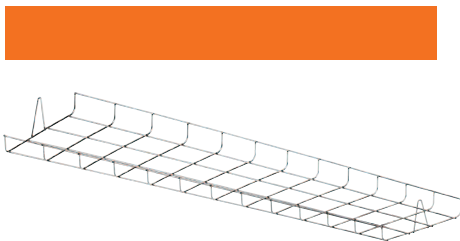
HFX-T, HFXE-T HAZARDOUS LOCATION APPLICATION DATA												
DESCRIPTION	RATED AMBIENT °C	SUITABLE FOR °C SUPPLY WIRE	CLASS I, DIV. 1 & 2 MAX. SURFACE TEMP.			CLASS II, DIV. 1 & 2 MAX. SURFACE TEMP.			CLASS III DIV. 1 & 2 SUITABILITY	UL MARINE	PAINT SPRAY SUITABLE	NEMA 3 & 4X
			TEMP.	T-CODE	GROUPS	TEMP.	T-CODE	GROUPS				
HFX-T 40W 2 LAMP	40	60	85°C	T6	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	Yes
HFX-T 55W 2 LAMP	40	60	85°C	T6	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	Yes
HFX-T 40W 4 LAMP	40	60	85°C	T6	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	Yes
HFX-T 55W 4 LAMP	40	60	85°C	T6	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	Yes



4' Nominal Style



2' Nominal Style



WIRE GUARD	
CATALOG NUMBER	DESCRIPTION
2HFX-G2	302 HFX-T Models
2HFX-G4	304 HFX-T Models

Consult page L167 for dimensions and accessories.

SEE PAGE L189 FOR HFXE EMERGENCY MODELS

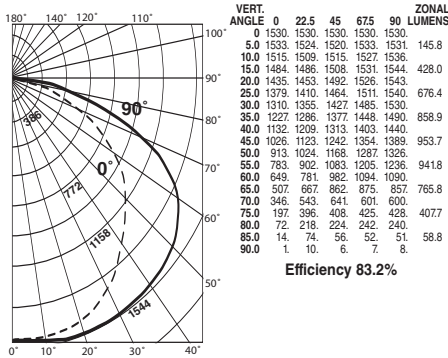
**FLUORESCENT FIXTURE- HFX-40T-302**

Lamp Type F40/2G11/835/RS  
2' – 2 40 Watt Biaxial 3150 Lumens each.  
**Total Bare Lamp Lumens 6300**  
For 55W Biaxial multiply by 1.52.



**ZONAL LUMENS**

ZONE LUMENS
0-30 1246
0-40 2102
0-60 3989
0-90 5237



**COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD**

% EFFECTIVE CEILING CAVITY REFLECTAN 1cc	80					70					50					30					10					0				
	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0					
ROOM CAVITY RATIO RCR	20% Effective Floor Cavity Reflectance																													
0	99.99	99.99	97.97	97.97	97.97	92.92	92.92	88.88	88.88	88.88	85.85	85.85	85.85	85.85	83.83	80.80	80.80	77.75	77.75	77.75	74.74	74.74	72.71	72.71	69.69					
1	81.74	68.63	79.73	67.63	63.61	70.65	61.67	67.63	60.64	61.58	56.56	56.56	52.49	49.47	46.46	45.41	39.39	35.34	35.34	31.29	28.28	27.25	25.21	22.18						
2	74.65	58.52	72.63	57.51	51.51	61.55	50.58	54.54	46.46	45.41	39.39	35.34	31.29	28.28	27.25	25.21	22.18	20.16	18.16	16.16	14.14	12.12	10.10	8.08						
3	67.57	49.43	65.56	49.43	43.41	54.47	42.42	52.46	42.50	45.41	39.39	35.34	31.29	28.28	27.25	25.21	22.18	20.16	18.16	16.16	14.14	12.12	10.10	8.08						
4	62.50	43.37	60.50	42.37	36.35	48.41	36.36	46.40	36.36	35.31	29.29	25.21	22.18	20.16	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01						
5	57.45	37.32	55.44	37.32	31.29	43.36	31.31	41.36	31.31	30.26	24.24	20.16	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97						
6	52.41	33.28	51.40	33.28	27.25	38.32	27.27	38.32	27.27	26.21	20.16	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95						
7	49.37	30.25	47.36	30.25	25.21	35.29	24.24	34.29	24.24	23.18	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93						
8	46.34	27.22	44.33	27.22	23.18	32.26	22.19	32.26	22.19	21.12	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.91						
9	43.31	24.20	41.31	24.20	21.12	30.24	20.16	29.24	20.16	19.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.91	0.89						
10	40.28	21.18	38.28	21.18	19.16	28.22	18.16	27.22	18.16	17.16	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.87						

SPACING TO MOUNTING HEIGHT RATIO - 1.28 0-180°  
SPACING TO MOUNTING HEIGHT RATIO - 1.50 90-270°

Test No. BAL12360

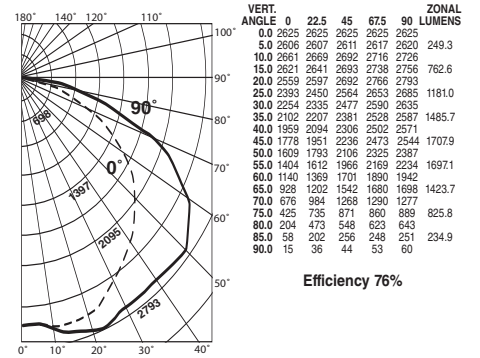
**FLUORESCENT FIXTURE- HFX-40T-304**

Lamp Type F40/2G11/835/RS  
4' – 4 40 Watt Biaxial 3150 Lumens each.  
**Total Bare Lamp Lumens 12600**  
For 55W Biaxial multiply by 1.52.



**ZONAL LUMENS**

ZONE LUMENS
0-30 2197
0-40 3685
0-60 7050
0-90 9559

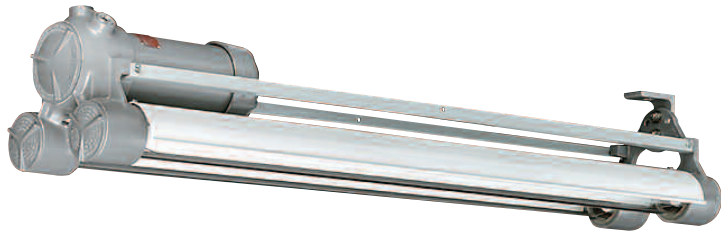


**COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD**

% EFFECTIVE CEILING CAVITY REFLECTAN 1cc	80					70					50					30					10					0				
	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0					
ROOM CAVITY RATIO RCR	20% Effective Floor Cavity Reflectance																													
0	90.90	90.90	88.88	88.88	88.88	84.84	84.84	81.81	81.81	81.81	77.77	77.77	77.77	77.77	74.74	74.74	71.71	71.71	71.71	68.68	68.68	65.65	65.65	62.62						
1	74.67	61.57	72.66	60.56	56.53	60.56	52.46	63.58	55.50	56.53	52.46	48.42	49.47	43.37	39.35	35.31	29.29	25.21	25.21	21.18	18.16	17.16	15.15	12.12						
2	67.58	52.46	65.57	51.46	45.44	54.48	42.38	48.42	38.32	37.32	31.29	27.25	26.21	20.16	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01						
3	61.51	44.39	59.50	43.38	38.36	48.42	36.32	42.36	32.28	31.27	25.21	21.18	20.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97						
4	56.45	38.33	54.44	38.33	32.28	43.36	31.28	38.32	28.28	27.25	21.18	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95						
5	51.41	33.28	50.40	33.28	27.25	38.32	27.27	38.32	27.27	26.21	20.16	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.93						
6	47.37	30.25	46.36	29.25	25.21	34.29	24.24	34.29	24.24	23.18	18.16	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.91						
7	44.33	27.22	43.33	26.22	23.18	32.26	22.19	32.26	22.19	21.12	16.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.89						
8	41.30	24.20	40.30	24.20	21.12	30.24	20.16	29.24	20.16	19.16	14.14	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.91	0.87						
9	38.28	21.18	37.28	21.18	19.16	28.22	18.16	27.22	18.16	17.16	12.12	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.85						
10	35.25	18.16	35.25	18.16	17.16	26.20	16.16	25.20	16.16	15.16	10.10	8.08	6.06	4.04	2.02	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.85	0.81						

SPACING TO MOUNTING HEIGHT RATIO - 1.28 0-180°  
SPACING TO MOUNTING HEIGHT RATIO - 1.52 90-270°

Test No. BAL12361



**Class I, Div. 1 & 2 Groups C,D**  
**Class I, Zones 1 & 2, Groups IIB,IIA**  
**Class II, Div. 1 & 2, Groups E,F,G**  
**Class III, Div. 1 & 2**  
**NEMA 3, 4X, 7(C,D) 9(E,F,G)**  
**Suitable for wet locations**  
**Suitable for paint spray booths**

Listed - File E12976 and E89665 (Marine)

Certified - File LR11713

### FEATURES-SPECIFICATIONS

#### Applications

HFX Series fluorescent fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water and snow can be expected. They can also be used in locations made hazardous due to the presence of flammable or explosive gases, vapors and combustible ducts as defined by the NEC.

Typical applications include classified areas such as inside paint spray booths, paint manufacturing plants, ammunition facilities, oil and gas producing and refining plants, off-shore and dockside installations, tank farms, pipeline pumping stations and marine loading and fuel transfer terminals.

#### Features

- UL Listed and labeled for use inside paint spray booths and rooms
- Construction is strong lightweight corrosion resistant copper-free aluminum alloy, less than 4/10 of 1%
- Class P ballast(s) with internal automatic thermally activated protective device
- All external hardware is corrosion resistant 316 stainless steel to provide maintenance free long life
- UL factory sealed construction (no external seals required). Saves installation time and cost
- Electronic energy efficient ballasts are standard on 430 MA fixtures and meet the requirements of many states

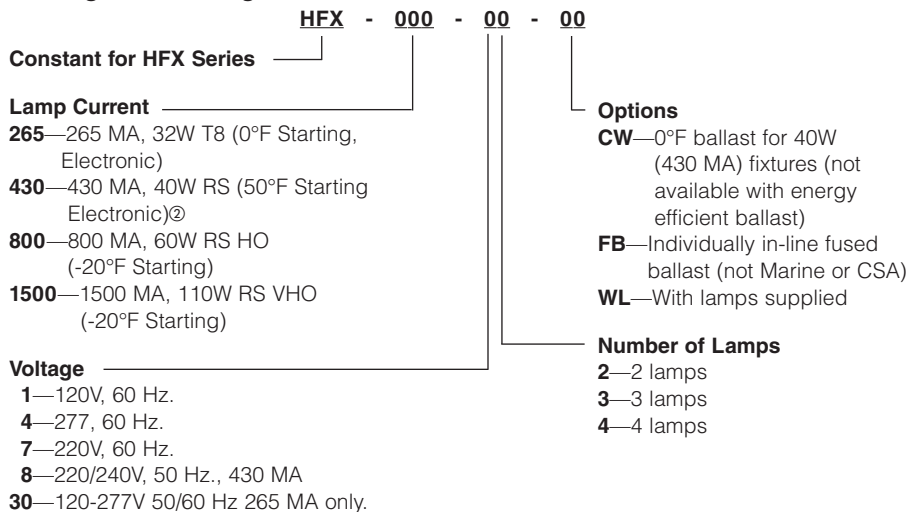
- Extruded aluminum reflectors are easily removable for cleaning. White baked enamel finish
- Optional 316 stainless steel wire guard for added protection
- Threaded O-Ring gasketed covers provide easy access to lamp chambers, ballast and wiring compartment
- UL Listed externally fused ballast option; protects fixture on line side of ballast, prevents ballast burnout
- Suitable for use in both indoor and outdoor wet locations
- Relamping from either end permits easy access, speed and flexibility in relamping

- Spring loaded sockets on both lamp ends provide positive electrical contact and improved vibration resistance

#### Compliances

- UL-1570, Standard for Fluorescent Lighting Fixtures
- UL Marine Type Lighting Fixtures
- UL-844, Standard for Lighting Fixtures for Hazardous Locations
- CSA C22.2 137-M1981
- Meets requirements of NFPA 70-1987 Article 516 and NFPA standard 33

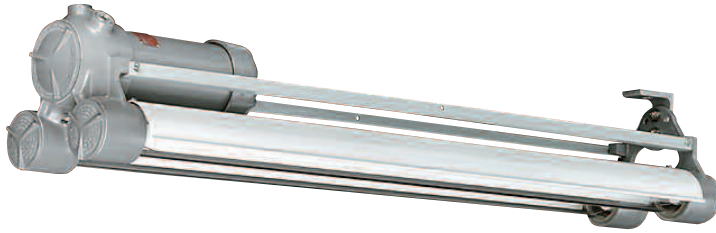
#### Catalog Number Logic



SEE PAGE L  
FOR HFXE  
EMERGENCY MODELS

HFX, HFXE HAZARDOUS LOCATION APPLICATION DATA <sup>①</sup>													
FIXTURE SERIES	LAMP WATTS	RATED AMBIENT °C	SUITABLE FOR °C SUPPLY WIRE	CLASS I, DIV. 1 & 2 MAX. SURFACE TEMP.			CLASS II, DIV. 1 & 2 MAX. SURFACE TEMP.			CLASS III DIV. 1 & 2 SUITABILITY	UL MARINE	PAINT SPRAY SUITABLE	NEMA 3 & 4
				TEMP.	T-CODE	GROUPS	TEMP.	T-CODE	GROUPS				
HFX	32	40	90	100°C	T5	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	
HFX	40	40	90	100°C	T5	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	
HFX	60	40	90	100°C	T5	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	
HFX	110	40	90	100°C	T5	C, D	120°C	T4A	E, F, G	Yes	Yes	Yes	

<sup>①</sup> Ratings apply to all 2, 3, and 4 lamp models.  
<sup>②</sup> 430 MA ballasts 60°F start with 34 watt lamps.



**Class I, Div. 1 & 2 Groups C,D  
Class I, Zones 1 & 2, Groups IIB,IIA  
Class II, Div. 1 & 2, Groups E,F,G  
Class III, Div. 1 & 2  
NEMA 3, 4X, 7(C,D) 9(E,F,G)  
Suitable for wet locations  
Suitable for paint spray booths**

Listed - File E12976 and E89665 (Marine)

Certified - File LR11713

**ORDERING INFORMATION**

HFX FLUORESCENT LIGHT FIXTURES				
CATALOG NUMBER <sup>①②</sup>	CONDUIT SIZE	LINE VOLTAGE @60 HERTZ	DESCRIPTION	NUMBER OF LAMPS
HFX-265-302	3/4"	120V-277V	32W T8 electronic ballast 265MA	 <b>Two Glass Tubes 4' Nominal</b>
HFX-430-12		120V	40W rapid start electronic F40T12	
HFX-430-42		277V	medium Bi-Pin 430MA	
HFX-800-12		120V	60W rapid start high output F48T12/HO	
HFX-800-42		277V	recessed double contact 800MA	
HFX-1500-12		120V	110W rapid start VHO F48T12/VHO	
HFX-1500-42	277V	recessed double contact 1500MA		
HFX-265-303	3/4"	120V-277V	32W T8 electronic ballast 265MA	 <b>Three Glass Tubes 4' Nominal</b>
HFX-430-13		120V	40W rapid start electronic F40T12	
HFX-430-43		277V	medium Bi-Pin 430MA	
HFX-800-13		120V	60W rapid start high output F48T12/HO	
HFX-800-43		277V	recessed double contact 800MA	
HFX-1500-13		120V	110W rapid start VHO F48T12/VHO	
HFX-1500-43	277V	recessed double contact 1500MA		
HFX-265-304	3/4"	120V-277V	32W T8 electronic ballast 265MA	 <b>Four Glass Tubes<sup>③</sup> 4' Nominal</b>
HFX-430-14		120V	40W rapid start electronic F40T12	
HFX-430-44		277V	medium Bi-Pin 430MA	
HFX-800-14		120V	60W rapid start high output F48T12/HO	
HFX-800-44		277V	recessed double contact 800MA	
HFX-1500-14		120V	110W rapid start VHO F48T12/VHO	
HFX-1500-44	277V	recessed double contact 1500MA		

① Standard ballasts starting temperatures:

- 32 Watt (265MA) Electronic 0°F
- 40 Watt (430MA) Electronic 50°F, 60°F with 34 Watt lamps
- 60 Watt (800MA) Electronic -20°F
- 110 Watt (1500MA) Electronic -20°F

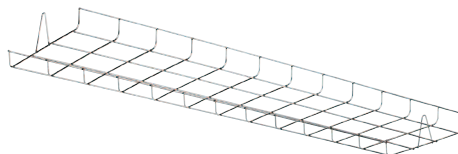
Optional cold weather electromagnetic ballast (0°F starting 40 Watt 430MA) add suffix **CW** to catalog number.

② Optional UL listed in-line ballast fusing is available by adding suffix **FB** to catalog number (UL only).

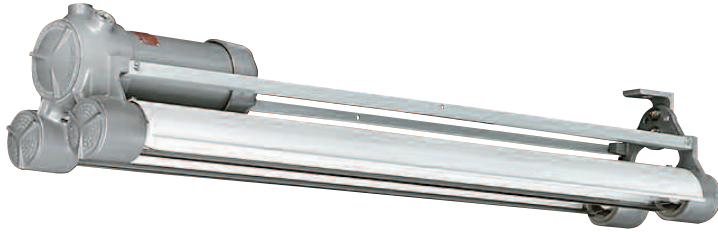
③ Safety chain accessory catalog number **HFX-SC** available, supplied standard with 4 lamp fixtures.

WIRE GUARD	
CATALOG NUMBER	DESCRIPTION
2HFX-G4	2-Lamp 316 grade stainless steel
3HFX-G4	3-Lamp 316 grade stainless steel

4 lamp fixture requires two 2HFX-G4 guards.



**SEE PAGE L  
FOR HFXE  
EMERGENCY MODELS**



Class I, Div. 1 & 2 Groups C,D  
 Class I, Zones 1 & 2, Groups IIB,IIA  
 Class II, Div. 1 & 2, Groups E,F,G  
 Class III, Div. 1 & 2  
 NEMA 3, 4X, 7(C,D) 9(E,F,G)  
 Suitable for wet locations  
 Suitable for paint spray booths

 Listed - File E12976 and E89665 (Marine)

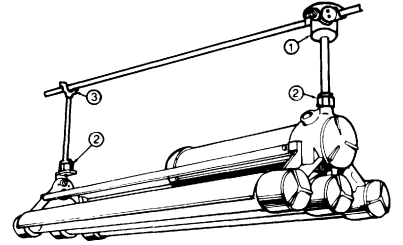
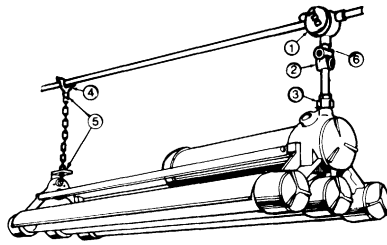
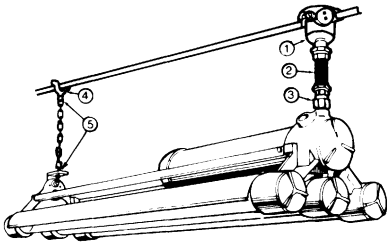
 Certified - File LR11713

HFX BALLAST DATA					
CATALOG NUMBER	NO. OF LAMPS	VOLTAGE	LINE CURRENT AMPS	INPUT WATTS	STARTING TEMPERATURE
<b>32 WATT T-8 ELECTRONIC 48" 265MA</b>					
HFX-265-302	2	120-277	.54 (120V) .24 (277V)	71	0°F (-18°C)
HFX-265-303 <sup>①</sup>	3	120-277	.71 (120V) .31 (277V)	88	0°F (-18°C)
HFX-265-304	4	120-277	1.10 (120V) .48 (277V)	142	0°F (-18°C)
<b>40 WATT RAPID START ELECTRONIC T-12 MEDIUM BI-PIN 48" 430MA<sup>③</sup></b>					
HFX-430-12	2	120	.51 <sup>②</sup>	60	60°F (16°C)
HFX-430-42	2	277	.22 <sup>②</sup>	60	60°F (16°C)
HFX-430-13 <sup>①</sup>	3	120	.69 <sup>②</sup>	91	60°F (16°C)
HFX-430-43 <sup>①</sup>	3	277	.30 <sup>②</sup>	91	60°F (16°C)
HFX-430-14	4	120	1.02 <sup>②</sup>	120	60°F (16°C)
HFX-430-44	4	277	.44 <sup>②</sup>	120	60°F (16°C)
HFX-430-12-CW	2	120	.75	90	0°F (-18°C)
HFX-430-42-CW	2	277	.33	90	0°F (-18°C)
HFX-430-13-CW	3	120	1.21	143	0°F (-18°C)
HFX-430-43-CW	3	277	.53	143	0°F (-18°C)
HFX-430-14-CW	4	120	1.50	180	0°F (-18°C)
HFX-430-44-CW	4	277	.66	180	0°F (-18°C)
<b>40 WATT BIAxIAL TYPE</b>					
HFX-40T-302	2	120-277 50/60 Hz	.63 (120V) .27 (277V)	76	0°F (-18°C)
HFX-40T-304	4	120-277 50/60 Hz	1.32 (120V) .54 (277V)	156	0°F (-18°C)
<b>55 WATT BIAxIAL TYPE</b>					
HFX-55T-302	2	120-277 50/60 Hz	.94 (120V) .41 (277V)	112	0°F (-18°C)
HFX-55T-304	4	120-277 50/60 Hz	1.97 (120V) .84 (277V)	232	0°F (-18°C)
<b>60 WATT RAPID START HIGH OUTPUT T-12 RECESSED DOUBLE CONTACT 48" 800MA</b>					
HFX-800-12	2	120	1.40	135	-20°F (-29°C)
HFX-800-42	2	277	.61	145	-20°F (-29°C)
HFX-800-13	3	120	2.40	260	-20°F (-29°C)
HFX-800-43	3	277	1.03	235	-20°F (-29°C)
HFX-800-14	4	120	2.80	270	-20°F (-29°C)
HFX-800-44	4	277	1.22	290	-20°F (-29°C)
<b>110 WATT RAPID START VERY HIGH OUTPUT T-12 RECESSED DOUBLE CONTACT 48" 1500MA</b>					
HFX-1500-12	2	120	2.10	242	-20°F (-29°C)
HFX-1500-42	2	277	.92	242	-20°F (-29°C)
HFX-1500-13	3	120	3.38	376	-20°F (-29°C)
HFX-1500-43	3	277	1.48	377	-20°F (-29°C)
HFX-1500-14	4	120	4.20	484	-20°F (-29°C)
HFX-1500-44	4	277	1.84	484	-20°F (-29°C)

- ① 3 lamp 265MA and 430MA fixtures use a single ballast.
- ② Line current using 34 Watt lamps. Start temperature for 40 Watt lamps 50°F (10°C). 40 Watt lamps current approximately 24% higher.
- ③ 430MA "CW" cold weather ballasts are electromagnetic.



**Typical installation using conduit hardware.**



Dummy (non-powered) end lowers for relamping clearance, which is required when fixtures are mounted in close proximity. Flexible mounting provides free swing and impact protection.

1. Splice Box/Fixture Hanger (HXB)
2. Flexible Pendant Hanger (EKJ)
3. Union (GUM)
4. Rigid Support Saddle Bracket (KFHS)
5. Support Hook (KEFHM)

Note: Leave extra links to support fixture in relamping position. Chain furnished by others.

Dummy (non-powered) end lowers for relamping clearance, which is required when fixtures are mounted in close proximity.

1. Splice Box/Fixture Hanger (XFH)
2. Swivel Hanger (KESD)
3. Union (GUM)
4. Rigid Support Saddle Bracket (KFHS)
5. Support Hook (KEFHM)

Note: Leave extra links to support fixture in relamping position. Chain furnished by others.

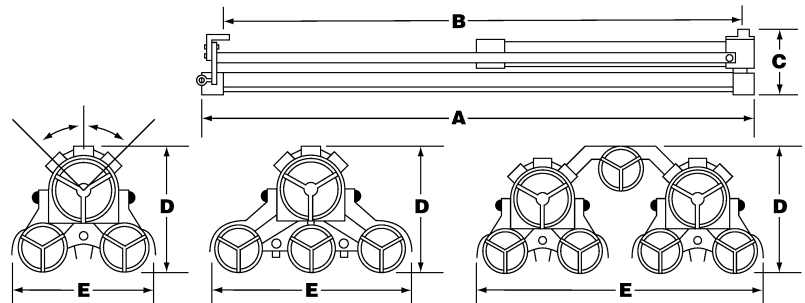
Rigid mounted—for installations where relamping can be accomplished without lowering dummy end.

1. Splice Box/Fixture Hanger (HXB)
2. Union (GUM)
3. Rigid Support Saddle Bracket (KFHS)

For wall mounting, use securely fastened 3/4" pipe 6" or less in length. Floor flange (furnished by others) recommended for dummy end as well as chain or cable providing vertical strain relief from above fixture. Chain furnished by others.

MOUNTING HARDWARE			
CATALOG NUMBER	HUB SIZE	LENGTH	DESCRIPTION
HXB-12	1/2"	—	<b>HXB SERIES</b> Splice Box/ 3/4" Fixture Hanger
HXB-22	3/4"	—	
EKJ-24	3/4"	4	<b>EKJ SERIES</b> Flexible Pendant Hanger
EKJ-26	3/4"	6	
EKJ-28	3/4"	8	
EKJ-210	3/4"	10	
EKJ-212	3/4"	12	
EKJ-215	3/4"	15	
EKJ-218	3/4"	18	
GUM-2	3/4"		<b>GU SERIES</b> Male Union

MOUNTING HARDWARE		
CATALOG NUMBER	HUB SIZE	DESCRIPTION
XFH-22	3/4"	<b>XFH SERIES</b> Splice box/fixture hanger
KESD-75	3/4"	<b>KESD SERIES</b> Swivel Hanger 15° swivel drop from center and full 360° free swing
KFHS-5075	3/4"	<b>KFHS SERIES</b> Rigid support saddle bracket for fluorescent fixtures (dummy end) Will support 350 lbs. and straddle Max. 1-1/4" conduit
KEFHM-75	3/4"	<b>KEFHM SERIES</b> Safety support hook with 3/4" male end For dummy end of fixture Will support 200 lbs. screw closed 3/8" jaw opening
HFX-SC	—	<b>HFX SERIES</b> Safety chain (36" length plated steel), standard on 4-tube fixture



HFX DIMENSIONS								
HFX MODEL	CONDUIT SIZE	DIMENSIONS						NET WEIGHT
		A	B	C	D	E		
Nominal 2'	2 Tubes 3/4-14 NPT	28-15/16" (735)	24-3/8" (619)	9-3/32" (231)	9-3/32" (231)	11" (279)	36.0 Lbs.	
Nominal 4'	2 Tubes 3/4-14 NPT	52-13/16" (1367)	48-3/8" (1229)	9-3/32" (231)	9-3/32" (231)	11" (279)	47.7 Lbs.	
Nominal 4'	3 Tubes 3/4-14 NPT	52-13/16" (1367)	48-3/8" (1229)	9-3/32" (231)	9-3/32" (231)	15-5/8" (397)	63.0 Lbs.	
Nominal 4'	4 Tubes 3/4-14 NPT	52-13/16" (1367)	48-3/8" (1229)	9-3/32" (231)	10-1/8" (257)	23" (584)	99.9 Lbs.	