

HEF SERIES

Industrial Fluorescent Lighting for Hazardous Locations

- UL 844 Hazardous Locations
- UL 924 Emergency Lighting
- Class I, Division 2, Groups A, B, C, & D
- Class II, Division 1 Groups F & G
- Class III
- CSA Certified
- Zone 2, Groups IIA, IIB, IIC
- Suitable for Wet Locations

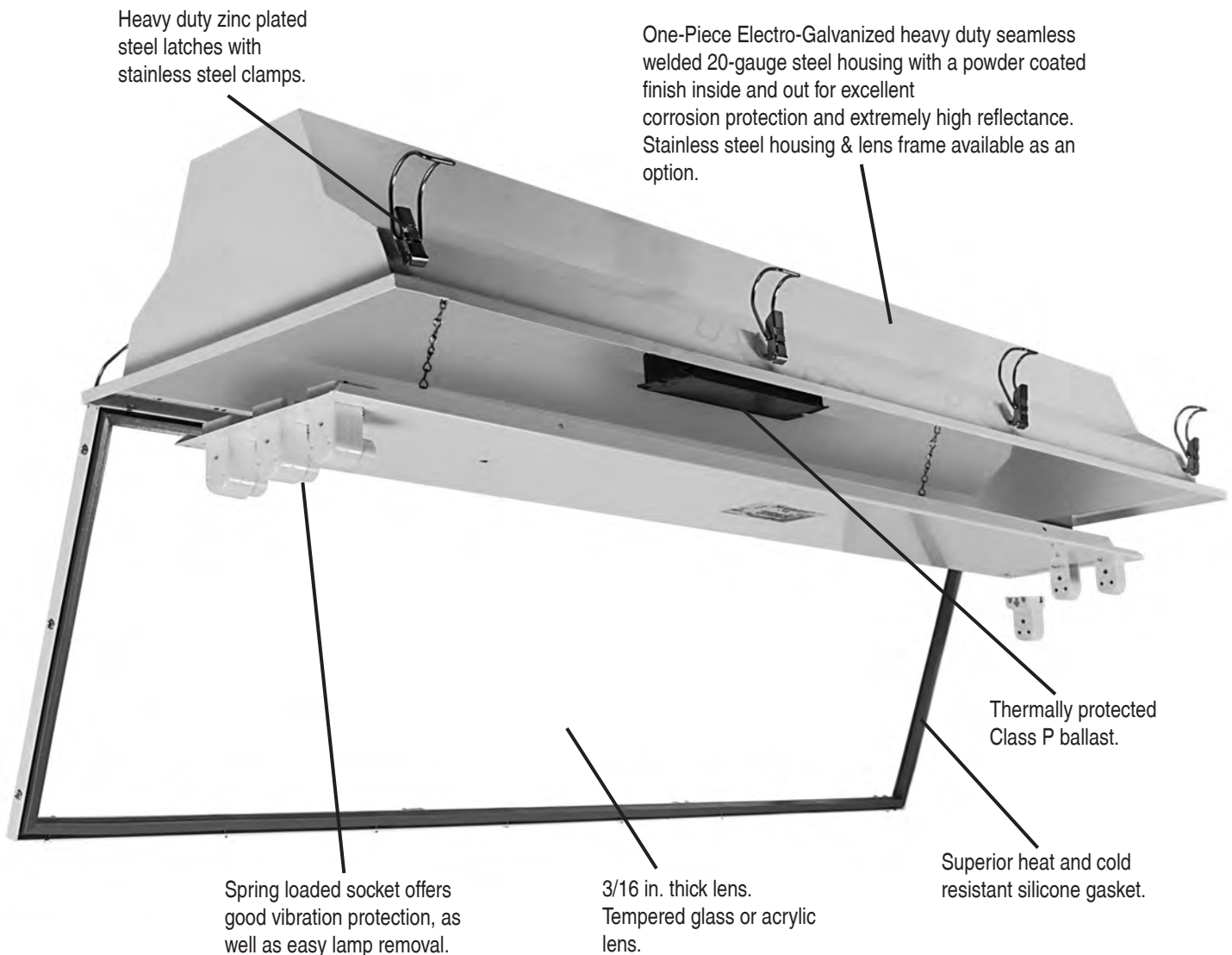


AZZ | R-A-L™
RIG-A-LITE

HEF SERIES

Industrial Fluorescent Lighting for Hazardous Locations

Each HEF Series fixture is individually tested for functional and dielectrical strength at the factory to assure quality and reliability and arrives assembled including reflectors, reducing installation time and cost.



FLUORESCENT HEF Series

Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 844 • CSA Certified • Wet Locations

Catalog Number Logic

HEF 265-2 -TM-U-XX

1

2

3

4

5

6

1

BASIC SERIES

HEF Fluorescent Fixture
Class I, Division 2, Groups A, B, C & D
Class II, Division 1 Groups F & G
Class III
Suitable for Wet Locations
UL 844 Hazardous Locations
CSA Certified
Zone 2, Groups IIA, IIB & IIC

2

LAMP CURRENT/LAMP WATTAGE

800 = 800mA, 60 Watt
430 = 430mA, 34 Watt (export only)
265 = 265mA, 32 Watt (T8 Lamps)
T5HO = 460mA T5HO, 54 Watt (Up to 6 Lamps)
T5 = 28 Watt

3

NUMBER OF LAMPS

2L = 2 Lamps
3L = 3 Lamps
4L = 4 Lamps (T5 or T5HO)
6L = 6 Lamps (T5 or T5HO)

4

TYPE OF LENS

TM = Tempered Glass
AC = Acrylic

5

VOLTAGE/FREQUENCY

H = 347V 60HZ
48 = 480V 60 HZ
U = 120 thru 277V 50/60HZ

6

OPTIONS¹

TW = End Mounting/Thru Wire
PTW = Pendant Mount and End Mount/Thru Wire
SS = Stainless Steel Body
OB = Outbound Wiring/Switching
F = Single Fuse
R = Radio Interference Filter
L = Lamps
HL = Hi Lumen Ballast (T8 only)
EM = Emergency Battery Backup²

¹Consult factory for pricing.

²800mA 3 lamp and T5HO 6 lamp not available with emergency option.

Catalog logic is for explaining catalog number structure only. Not all combinations are possible; consult factory for catalog numbers not listed in charts.

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Certification Guide

OPERATING TEMPERATURE CODE				
HEF SERIES	CLASS I, DIVISION 2 GROUPS A, B, C & D	CLASS II, DIVISION 1 GROUPS F & G	RATED AMBIENT TEMPERATURE	SUPPLY WIRE
HEF 800 2 & 3 LAMPS	T3C (160°C/320°F)	T6 (85°C/185°F)	25°C (77°F)	90°
HEF 430 2 & 3 LAMPS	T6 (85°C/185°F)	T6 (85°C/185°F)	40°C (104°F)	90°
HEF 265 2 & 3 LAMPS	T4A (120°C/248°F)	T6 (85°C/185°F)	40°C (104°F)	90°
HEF T5HO 2, 3, 4 & 6 LAMPS	T3C (160°C/320°F)	T6 (85°C/185°F)	40°C (104°F)	90°

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Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 844 • CSA Certified • Wet Locations



(Lamps not included)

- Class I, Division 2, Groups A, B, C and D
- Class II, Groups F and G;
- Class III
- UL 844 Hazardous Locations
- Suitable for wet locations
- Available in 2 or 3 lamp and 4 or 6 lamp T5HO & T5
- Available in 265, 425, 430 or 800 mA
- Rugged heavy duty one-piece construction
- 20 gauge steel housing, 14 gauge steel door frame
- Stainless steel housing available
- Superior white finish inside and out for excellent reflectivity and long-lasting corrosion protection
- Superior heat and cold resistant silicone gasket
- 3/16 in. clear tempered glass or acrylic lens
- Pendant mount or thru-wire cast 1/2" NPT aluminum hubs
- Various mounting bracket options

	Description	Voltage	Type Lens	Catalog Number ¹
Two Lamp Fixture	32 Watt, Instant Start Medium Bi-Pin T8, 265mA, 48"	120-277V 50/60HZ	Tempered Glass	HEF265-2L-TM-U
	34 Watt, Rapid Start Medium Bi-Pin T12, 430mA, 48" (export only)	120-277V 50/60HZ	Tempered Glass	HEF430-2L-TM-U
	54 Watt, T5HO Miniature Bi-Pin 2 Lamp 48"	120-277V 50/60HZ	Tempered Glass	HEFT5HO-2L-TM-U
	60 Watt, Rapid Start ² High Output Recessed Double Contact 800mA Lamps, 48"	120-277V 50/60HZ	Tempered Glass	HEF800-2L-TM-U
Three Lamp Fixture	32 Watt, Instant Start Medium Bi-Pin T8, 265mA, 48"	120-277V 50/60HZ	Tempered Glass	HEF265-3L-TM-U
	34 Watt, Rapid Start ³ Medium Bi-Pin 430mA Lamps, 48" (export only)	120V/60HZ	Tempered Glass	HEF430-3L-TM-A
		277V/60HZ	Tempered Glass	HEF430-3L-TM-C
	54 Watt, T5HO Miniature Bi-Pin 2 Lamp, 48"	120-277V 50/60HZ	Tempered Glass	HEFT5HO-3L-TM-U
	60 Watt, Rapid Start, High ² Output Recessed Double Contact, 800mA, 48"	120-277V 50/60HZ	Tempered Glass	HEF800-3L-TM-U

¹Part numbers are for pendant mount fixtures. For end mount/thru wire application, see options.

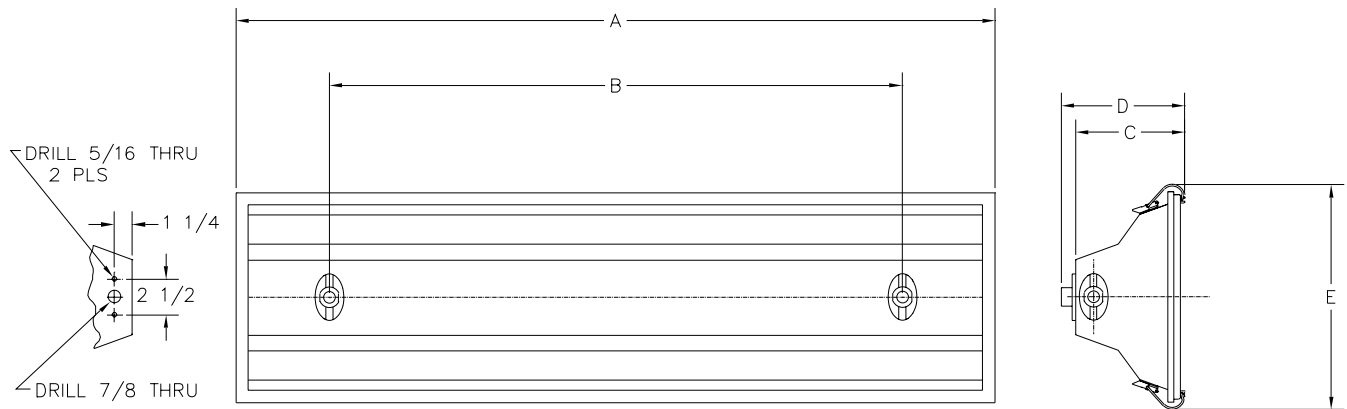
²Min starting temp for 60 watt fixtures is -20°F.

³Two ballasts available for 3-40 watt lamps for outboard option.

FLUORESCENT HEF Series

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Fixture Dimensions (inches)

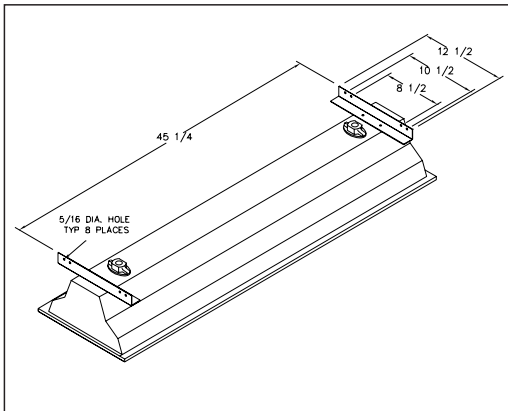


HEF SERIES	Dimensions (inches)					Hub Size	Boxed Weight	Shipping Volume (Boxed Fixtures)
	A	B	C	D	E			
2-Lamp, 4 ft. Fixture (34, 60 watt)	53.125	40	7.5	8.5	15.25	1/2	37 lbs.	4.7 cu. ft.
3-Lamp, 4 ft. Fixture (34, 60 watt)	53.125	40	7.5	8.5	15.25	1/2	43 lbs.	4.7 cu. ft.
Up to 6 lamp 4 ft. Fixture (T5HO)	53.125	40	7.5	8.5	15.25	1/2	41 lbs.	4.7 cu. ft.

FLUORESCENT HEF Series

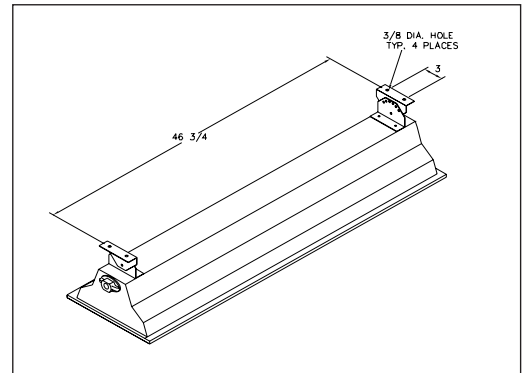
Hazardous Locations • Class I, Division 2 • Class II • Class III • UL 844 • CSA Certified • Wet Locations

Accessories



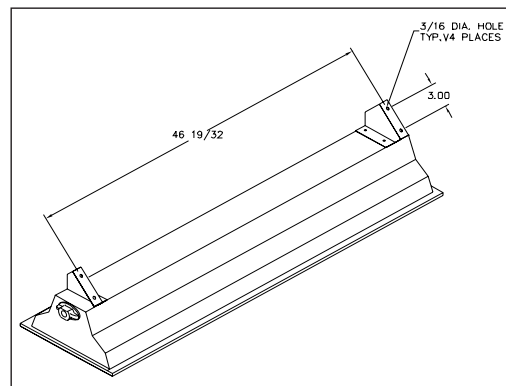
Angle Bar Chain Mounting Kit

53045- Plated Steel
53045SS- Stainless
Shipping Weight: 1.5 lbs.
Chain Not Included



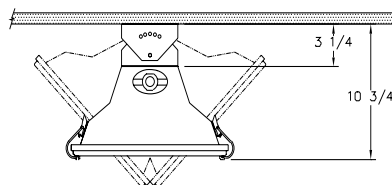
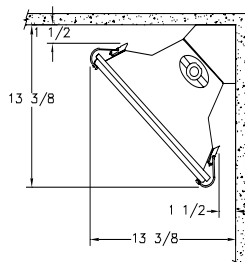
Adjustable Wall/Ceiling Mounting Kit

53044- Plated Steel
53044SS- Stainless
Shipping Weight: 1.41 lbs.



Fixed 45° Wall/Ceiling Mounting Kit

53043 Plated Steel
53043SS- Stainless
Shipping Weight: 1.61 lbs.



NOTE:

When wall/ceiling bracket is adjusted to the 45° position, all dimensions are same as shown for fixed 45° bracket.

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Coefficients of Utilization

HEF265-2

% Effective Ceiling Cavity Reflectance rcc	80			50			10		
% Wall Reflectance rw	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR	Effective Floor Cavity Reflectance 20%								
0	.92	.92	.92	.86	.86	.86	.79	.79	.79
1	.78	.74	.71	.73	.70	.68	.67	.65	.63
2	.67	.61	.56	.62	.58	.54	.57	.54	.51
3	.58	.50	.45	.54	.48	.43	.50	.45	.42
4	.50	.43	.37	.47	.41	.36	.43	.39	.35
5	.44	.36	.31	.41	.35	.30	.38	.33	.29
6	.39	.32	.26	.37	.30	.26	.34	.29	.25
7	.35	.28	.22	.33	.27	.22	.31	.26	.22
8	.32	.24	.20	.30	.24	.19	.28	.23	.19
9	.29	.22	.17	.27	.21	.17	.26	.21	.17
10	.26	.20	.15	.25	.19	.15	.23	.19	.15

HEF265-3

% Effective Ceiling Cavity Reflectance rcc	80			50			10		
% Wall Reflectance rw	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR	Effective Floor Cavity Reflectance 20%								
0	.84	.84	.84	.78	.78	.78	.72	.72	.72
1	.71	.68	.65	.67	.64	.62	.61	.60	.56
2	.61	.56	.51	.57	.53	.49	.53	.50	.47
3	.53	.46	.41	.49	.44	.40	.46	.42	.39
4	.46	.39	.34	.43	.38	.33	.40	.36	.33
5	.40	.34	.28	.38	.32	.28	.35	.31	.27
6	.36	.29	.24	.34	.28	.24	.32	.27	.23
7	.32	.26	.21	.30	.25	.21	.28	.24	.20
8	.29	.23	.18	.28	.22	.18	.26	.21	.18
9	.26	.20	.16	.25	.20	.16	.24	.19	.16
10	.24	.18	.14	.23	.18	.14	.22	.17	.14

HEF800-2

% Effective Ceiling Cavity Reflectance rcc	80			50			10		
% Wall Reflectance rw	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR	Effective Floor Cavity Reflectance 20%								
0	.83	.83	.83	.77	.77	.77	.71	.71	.71
1	.73	.71	.68	.69	.67	.65	.64	.62	.61
2	.64	.60	.56	.61	.57	.54	.56	.54	.52
3	.57	.52	.47	.54	.50	.46	.50	.47	.45
4	.50	.45	.40	.48	.43	.39	.45	.41	.38
5	.44	.38	.34	.42	.37	.33	.40	.36	.32
6	.40	.33	.29	.38	.32	.29	.35	.31	.28
7	.35	.29	.25	.34	.29	.25	.32	.28	.24
8	.32	.26	.21	.30	.25	.21	.28	.24	.21
9	.28	.22	.18	.27	.22	.18	.25	.21	.18
10	.26	.20	.16	.24	.19	.16	.23	.19	.16

HEF800-3

% Effective Ceiling Cavity Reflectance rcc	80			50			10		
% Wall Reflectance rw	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR	Effective Floor Cavity Reflectance 20%								
0	.76	.76	.76	.71	.71	.71	.65	.65	.65
1	.67	.65	.63	.63	.61	.60	.59	.57	.56
2	.60	.56	.52	.56	.53	.50	.52	.50	.48
3	.53	.48	.44	.50	.46	.43	.47	.44	.42
4	.47	.42	.38	.44	.40	.37	.42	.38	.36
5	.41	.36	.32	.39	.35	.31	.37	.33	.30
6	.37	.31	.27	.35	.30	.27	.33	.29	.26
7	.33	.27	.24	.31	.27	.23	.30	.26	.23
8	.29	.24	.20	.28	.23	.20	.27	.23	.20
9	.26	.21	.17	.25	.20	.17	.24	.20	.17
10	.24	.19	.15	.23	.18	.15	.22	.18	.15

Candlepower Distribution

HEF265-2

Deg.	Parl.	22.5	45	67.5	Norm
0	1432	1432	1432	1432	1432
5	1436	1437	1435	1436	1436
15	1402	1408	1417	1428	1437
25	1323	1338	1356	1386	1402
35	1199	1223	1257	1297	1323
45	1039	1071	1119	1172	1202
55	823	868	910	955	962
65	556	588	609	623	613
75	263	277	281	271	245
85	34	35	35	32	32
90	0	0	0	0	0

HEF265-3

Deg.	Parl.	22.5	45	67.5	Norm
0	2011	2011	2011	2011	2011
5	2019	2013	2013	2012	2010
15	1964	1968	1991	2008	2012
25	1839	1864	1920	1955	1965
35	1653	1706	1768	1831	1841
45	1408	1491	1578	1632	1637
55	1099	1201	1286	1275	1256
65	714	812	822	766	741
75	309	363	325	266	248
85	26	32	27	26	26
90	0	0	0	0	0

HEF800-2

Deg.	Parl.	22.5	45	67.5	Norm
0	1882	1882	1882	1882	1882
5	1889	1885	1883	1883	1883
15	1837	1842	1861	1878	1882
25	1717	1743	1795	1834	1844
35	1543	1595	1674	1731	1747
45	1315	1399	1494	1587	1600
55	1025	1131	1259	1267	1249
65	663	787	829	812	797
75	285	368	369	314	283
85	23	33	30	30	30
90	0	0	0	0	0

HEF800-3

Deg.	Parl.	22.5	45	67.5	Norm
0	2693	2693	2693	2693	2693
5	2688	2681	2677	2674	2674
15	2634	2630	2659	2685	2693
25	2456	2493	2564	2612	2627
35	2215	2282	2383	2447	2462
45	1887	1989	2098	2181	2181
55	1468	1605	1701	1663	1628
65	958	1101	1062	989	943
75	399	477	403	333	313
85	31	35	31	31	31
90	0	0	0	0	0

Photometric Data

