

MHDA SERIES

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Aluminum Marine Heavy Duty Luminaire for Hazardous Locations

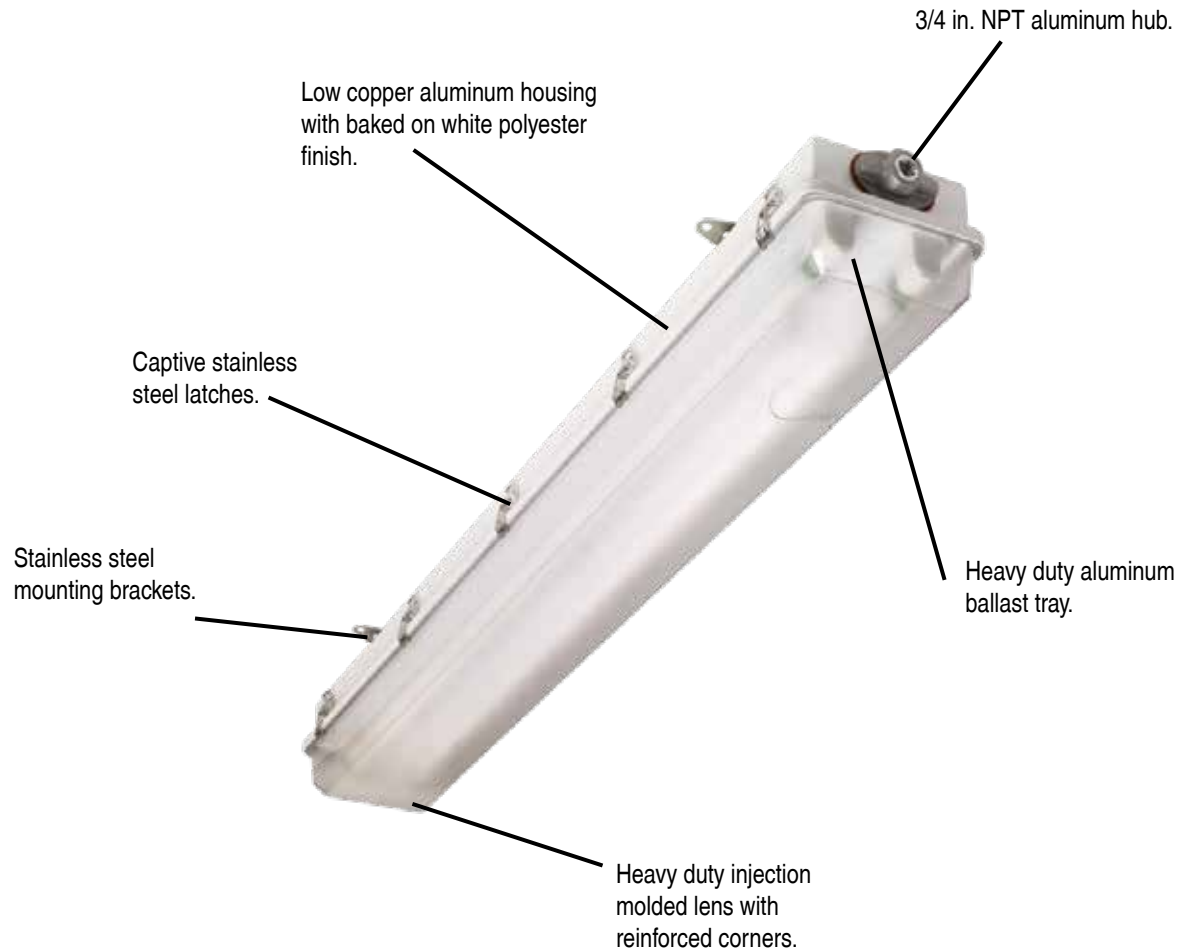
- Class I, Division 2, Groups A, B, C & D
- Class II, Division 2, Groups F & G
- Class III
- UL 844 Hazardous Locations
- UL 1598A Marine Outside Type
- CSA C22.2 #137; C22.2 #213
- CUL
- 55° C Ambient Temperature
- IP66



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MHDA SERIES

Marine Heavy Duty Fluorescent Luminaire for Hazardous Locations



Housing:

- Corrosion resistant aluminum housing
- Water tight gasket attached to the lens
- Captive SS latches
- Heavy duty aluminum ballast tray
- 3/4 in. NPT aluminum conduit hubs

Diffuser:

- High Impact DR acrylic diffuser- polycarbonate option available

Mounting:

- Stainless steel mounting brackets standard

FLUORESCENT MHDA Series

Hazardous Locations • Class I, Division 2 • Class II, Division 2 • Class III • UL 1598A Marine Outside Type • UL 844

Catalog Number Logic

MHDA 265-4 -X-U-XX

① ② ③ ④ ⑤ ⑥

- ① BASIC SERIES**
MHDA Aluminum Fluorescent
Class I, Division 2, Groups A, B, C and D
Class II, Division 2 Groups F & G
Class III
UL 844 Hazardous Locations
UL1598A Marine Outside Type
CSA C22.2 #137; C22.2 #213
CUL
55° C Ambient Temperature
IP66
- ② LAMP CURRENT/LAMP WATTAGE**
800 = 800mA, 60 Watt
430 = 430mA, 34 Watt (export only)
425 = 425mA, 40 Watt (Slimline)
265 = 265mA, 32 Watt T8
T8HO = T8HO, 44 Watt
T5 = T5, 28 Watt
T5HO = T5HO, 54 Watt
- ③ NOMINAL FIXTURE LENGTH**
4 = Four Foot
- ④ NUMBER OF LAMPS**
2 = Two Lamp
3 = Three Lamp (T8, T5 & T5HO Only)
- ⑤ VOLTAGE/FREQUENCY**
U = 120 thru 277V 50/60 HZ
N = 347 thru 480V 50/60 HZ
H = 347V 60 HZ
- ⑥ OPTIONS¹**
P = Polycarbonate Lens
F = Single Fuse²
FB = Fuse Block²
TB = Terminal Block
TW = Thru Wire
Cable Installations Only
PM = Pendant Mount
EM = Emergency Battery Backup
EM NON = Non-Hazardous Emergency

¹ Consult factory for pricing.

² Fuse option not available for marine listed fixtures.

FLUORESCENT MHDA Series

Hazardous Locations • Class I, Division 2 • Class II, Division 2 • Class III • UL 1598A Marine Outside Type • UL 844



- Class I, Division 2, Groups A, B, C and D
- Class II, Division 2, Groups F and G
- Zone 2, Groups IIA, IIB and IIC
- UL 1598A Marine Outside Type
- UL 844 Hazardous Locations
- Suitable for indoor use
- Corrosion resistant aluminum housing painted white
- Water tight gasket attached to lens
- High impact acrylic lens with stainless steel lens tethers
- Captive SS latches
- Heavy duty aluminum ballast tray
- Stainless steel mounting brackets

	Description	Voltage	Catalog Number
Four Foot Fixture	32 Watt Instant Start F32T8 Medium Bi-Pin 265mA Lamps, 48"	120-277V 50/60 HZ	MHDA265-4-2-U
	44 Watt Rapid Start T8HO Medium Bi-Pin 265mA Lamps, 48"	120-277V 50/60 HZ	MHDAT8HO-4-2-U
	28 Watt, Rapid Start T5 Miniature Bi-Pin Lamps, 48"	120-277V 50/60 HZ	MHDAT5-4-2-U
	54 Watt, Rapid Start T5HO Miniature Bi-Pin Lamps, 48"	120-277V 50/60 HZ	MHDAT5HO-4-2-U

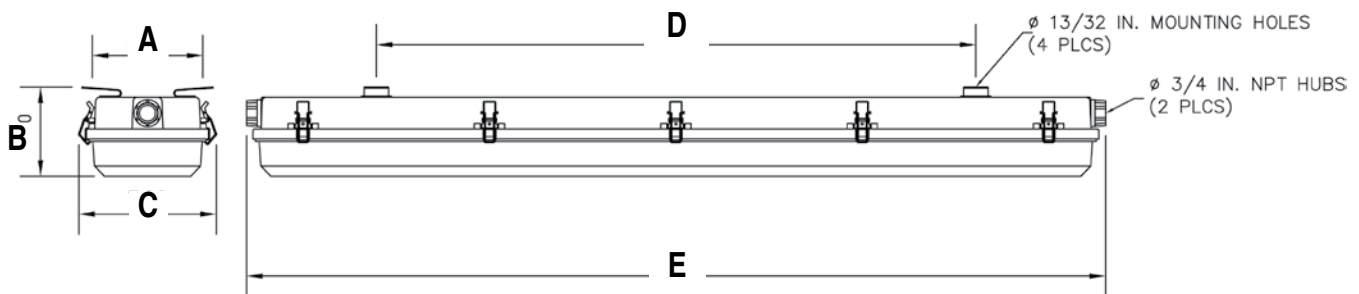
Certification Guide

Model	Ambient Temperature (°C)	Class I, Div. 2 Groups A, B, C & D	Class II, Div. 2, Groups F & G, Class III	Supply Wire Suitable Temp °C
MHDA 265	40	T4	T3C	90
MHDA 265	55	T4A	-	90
MHDA T5, T5HO	40	T4	T3C	90
MHDA T5, T5HO	55	T3C	-	90
MHDA T8HO	40	T4A	T3C	90
MHDA T8HO	55	T4	-	90

FLUORESCENT MHDA Series

Hazardous Locations • Class I, Division 2 • Class II, Division 2 • Class III • UL 1598A Marine Outside Type • UL 844

Fixture Dimension (inches)



Nominal Fixture Length	A	B	C	D	E	Boxed Weight	Shipping Volume (Boxed Fixture)
Four Foot Fixture	6.88	5.00	7.88	36.63	53.13	24.2 lbs.	2.0 cu. ft.

Accessories



Fixed Mounting Kit

Stainless Steel Fixed 45°
Catalog Number: 53070
Shipping Weight: 2 lbs.

FLUORESCENT MHDA Series

Hazardous Locations • Class I, Divison 2 • Class II, Divison 2 • Class III • UL 1598A Marine Outside Type • UL 844

Candlepower Distribution

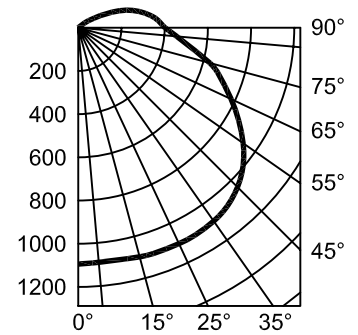
MHDA265-4-2

Deg.	Parl.	22.5	45.0	67.5	Norm
0	1094	1094	1094	1094	1094
5	1094	1092	1092	1088	1090
15	1057	1063	1077	1090	1098
25	978	1003	1040	1085	1103
35	867	912	991	1066	1093
45	718	789	906	1010	1043
55	531	632	780	899	932
65	316	440	610	747	781
75	140	268	463	598	631
85	38	147	314	432	458
90	16	102	261	365	402
95	16	78	230	331	373
105	10	41	159	249	292
115	4	16	70	134	172
125	0	2	20	37	57
135	0	0	7	14	16
145	0	0	0	5	8
155	0	0	0	0	1
165	0	0	0	0	0

Coefficients of Utilization

% Effective Ceiling Cavity Reflectance rcc	80			50			10		
	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR									
Effective Floor Cavity Reflectance 20%									
0	.93	.93	.93	.84	.84	.84	.74	.74	.74
1	.76	.71	.66	.68	.64	.61	.59	.57	.54
2	.64	.57	.51	.57	.52	.47	.49	.46	.43
3	.55	.47	.41	.49	.43	.38	.42	.38	.34
4	.48	.39	.33	.43	.36	.31	.37	.32	.28
5	.42	.34	.28	.38	.31	.26	.33	.28	.24
6	.37	.29	.23	.34	.27	.22	.29	.24	.20
7	.33	.26	.20	.30	.24	.19	.26	.21	.18
8	.30	.23	.17	.27	.21	.17	.24	.19	.15
9	.27	.20	.15	.25	.19	.15	.22	.17	.13
10	.25	.18	.14	.23	.17	.13	.20	.15	.12

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Candlepower Distribution

MHDA265-4-3

Deg.	Parl.	22.5	45.0	67.5	Norm
0	1641	1641	1641	1641	1641
5	1641	1638	1638	1632	1635
15	1585	1594	1616	1635	1647
25	1466	1504	1560	1627	1655
35	1301	1368	1487	1599	1640
45	1076	1184	1359	1515	1565
55	797	948	1170	1348	1398
65	474	660	916	1120	1172
75	211	402	694	987	947
85	58	220	471	647	686
90	23	153	392	548	604
95	23	117	345	496	560
105	16	61	239	373	438
115	6	23	105	201	257
125	0	3	30	56	86
135	0	0	11	20	23
145	0	0	3	8	12
155	0	0	0	0	2
165	0	0	0	0	0

Coefficients of Utilization

% Effective Ceiling Cavity Reflectance rcc	80			50			10		
	50	30	10	50	30	10	50	30	10
Room Cavity Ratio RCR									
Effective Floor Cavity Reflectance 20%									
0	.93	.93	.93	.84	.84	.84	.74	.74	.74
1	.76	.71	.66	.68	.64	.61	.59	.57	.54
2	.64	.57	.51	.57	.52	.47	.49	.46	.43
3	.55	.47	.41	.49	.43	.38	.42	.38	.34
4	.48	.39	.33	.43	.36	.31	.37	.32	.28
5	.42	.34	.28	.38	.31	.26	.33	.28	.24
6	.37	.29	.23	.34	.27	.22	.29	.24	.20
7	.33	.26	.20	.30	.24	.19	.26	.21	.18
8	.30	.23	.17	.27	.21	.17	.24	.19	.15
9	.27	.20	.15	.25	.19	.15	.22	.17	.13
10	.25	.18	.14	.23	.17	.13	.20	.15	.12

PhotometricData

