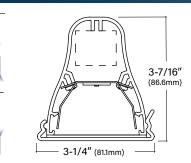
roiect Name			
roiect ivame			

ate _____ Type ____







MOFFAT \ Outdoor Linear Luminaire

Key Features

- 6063-T6 Extruded aluminum housing
- Highly reflective die-formed white painted aluminum reflector
- Die-cast aluminum end caps
- MOFFAT offered with a 5-year limited warranty that covers LED, driver and fixture
- ETL listed conforming to UL 1598 in US and CSA 250 in Canada
- Approved for wet location, IP65 Rated, fully gasketed lens and endcaps
- Maximum fixture weight is 20 lbs per standard 4' fixture
- Fixture head roatation provides asymmetric and general illumination
- Buy American Act compliant











Example Part #: MW-HE-835HO-26'-FL-U-OL2-1-0-W

MW	- HE	-	-	-	-	-	-	-	-	-	-
	SHIELDING	CRI, CCT & OUTPUT	LENGTH	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS

OUTPUT		EMERGENCY OPTIO	NS
M_	HE		
HOUSING	SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH ²
MW - Moffat Wet MN - Moffat Natatorium (FL mounting only)	HE - High Efficiency Lens WHE - Asymmetric Lens Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts Lumen Output pg. 2	Individual Fixture Continuous Row <i>Length pg.</i> 3
			-
MOUNTING	VOLTAGE	DRIVER	CIRCUITING
FL - Flush Mount PH Pendant Hub (specify 12", 18", 24") WH Wall Hub (specify 6", 12", 18", 24") Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 4	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1-Lutron Hi-lume (1%, EcoSystem) PS1 - Advance Xitanium (50%/100%) OL2 - Osram (1%, 0-10v) Driver pg. 4	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4
BATTERY & EMERGENCY ³	FINISH	FIXTURE OPTIONS	CONTROLS
O - None _FSG - Factory Select ALCR _FSB - Factory Select Battery _GI - lota ETS DR _GB - Bodine GTD _PLL - Bodine 10W (low profile) _ILL - lota 10W Integral _E - Emergency circuit section _N - Night Light circuit section _L - Life Safety circuit section	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 5	V - Visor DSP - Customer Supplied Battery/Driver/ Sensor Fixture Options pg. 5	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

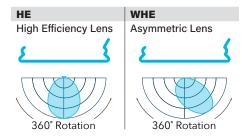
Battery and Emergency pg. 4-5

When specifying CRI, CCT, & OUTPUT the first _ is for specifying either 8 - 80CRI, 9 - 90CRI. The ending _ _ are for specifying output, example HO - High Output. See output charts for more information. Individual fixtures come in 2', 3'. 4', 6' & 8' lengths. Continuous rows available in 1' increments, starting at 2' senter quantity for Battery and Emergency, Example 2PL.

MOFFAT MW

Shielding

 The distributions for each shielding option below are shown in a direct orientation. See Mounting for all rotating head options.



CRI, CCT & Output

Specify either 80 or 90 CRI

80 CRI

840

Longer lead-time may apply for 90 CRI. Consult factory

4000K

Standard

750

• 90 CRI = R9≥50

Custom Output- Lumens OR Wattage						
CL	Specify CRI, CCT and desired lumens (i.e. CL835950)	Specify lumens between standard offering listed below. Lumens are specified per color temp				
CW	Specify CRI, CCT and desired wattage (i.e. CW9409.5)	Specify watts between standard offering listed below				

	Color	Output	Lumens per foot	Shieldi HE	ng	WHE	
				High Eff	ficiency	Asymm	etric Lens
				LPW	Watts/ft	LPW	Watts/ft
830LO	3000K	Low	350	122	2.9	103	3.4
830	3000K	Standard	750	126	5.9	109	6.9
830HO	3000K	High	1000	127	7.9	111	9.0
830VHO	3000K	Very High	1250	129	9.7	109	11.4
835LO	3500K	Low	350	125	2.8	106	3.3
835	3500K	Standard	750	128	5.8	111	6.8
835HO	3500K	High	1000	131	7.7	111	9.0
835VHO	3500K	Very High	1250	133	9.4	112	11.1
840LO	4000K	Low	350	127	2.8	108	3.3

130

5.8

112

6.7

840HO	4000K	High	1000	132	7.6	112	8.9
840VHO	4000K	Very High	1250	135	9.3	114	11.0
90 CRI							
927LO	2700K	Low	350	101	3.5	88	4.0
927	2700K	Standard	750	107	7.0	91	8.3
927HO	2700K	High	1000	109	9.2	92	10.8
930LO	3000K	Low	350	105	3.3	91	3.9
930	3000K	Standard	750	109	6.9	94	8.0
930HO	3000K	High	1000	109	9.1	96	10.5
935LO	3500K	Low	350	107	3.3	93	3.8
935	3500K	Standard	750	112	6.7	96	7.8
935HO	3500K	High	1000	112	8.9	98	10.2
940LO	4000K	Low	350	106	3.3	92	3.8
940	4000K	Standard	750	111	6.8	95	7.9
940HO	4000K	High	1000	111	9.0	97	10.3

¹LPW and watts/ft based off 48" fixture size.

Length

- All individual units cannot be joined
- The PH and WH mounting options have a 1-3/8" hub on each side of the fixture, the FL mounting option has 1/2" hub at each end of the fixture, see installation instuctions for more details and chart.

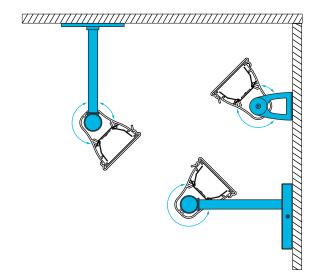


Mounting

- Pendant lengths are 12", 18", and 24" Wall Hub lengths are 6", 12", 18", and 24"
- End caps and standard white power cord attached at factory
- Canopies, hubs, and pendants match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details
 Approved for wet location, IP65 rated, unless otherwise noted

FL	Flush Mount (360° rotating head)
PH	Pendant Hub (360° rotating head)
WH	Wall Hub (360° rotating head)

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs. per 4' fixture
- Fixture head rotation provides asymmetric output
- The PH and WH mounting options have a 1-3/8" hub on each side of the fixture, the FL mounting option has 1/2" hub at each end of the fixture, see installation instuctions for more details and chart.



Voltage

 Some MOFFAT configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568 MW_LED_SPEC_JAN2023

Outdoor Linear Luminaire

Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide

Some MOFFAT configurations will not accommodate all driver options; consult with

0.40\/ Duines	
0-10V Drivers	
FSD	Factory Select Driver 1%, 0-10v
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	Osram Optotronic, 1%, 0-10v
OL4	Osram Optotronic 347v, 1% 0-10v, requires 347v option
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
DALI Drivers	
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)
OD1	Osram Optotronic 1%, DEXAL
OD2	Osram Optotronic 1%, DALI 2 Channel
Lutron Drive	rs
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only
Alternate Dri	vers
PS1	Signify Advance Xitanium Step Dimming 50%/100%
EH1	ELV 120v only, 0-10v universal

How to specify Circuiting, Battery and Emergency



- Select fixture circuiting from options below
- Some MOFFAT configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
M	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only



- Battery and emergency section options are available in addition to fixture circuit Select battery and emergency section options below; factory shop drawing required Some MOFFAT configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

No battery or specific emergency section required

Battery

- Select battery section type if required, indicate total QTY. Example 2PL
- 90 minute battery runtime; test button is integral to fixture
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_FSB	Factory Select Battery (10w option)
_FSBST	Factory Select Battery (Self Testing)
_ILL	lota 10w Integral Lithium, Self Testing
_IRH	lota 20w Remote
_PLL	Bodine 10w Integral Lithium, Self Testing
_PRH	Bodine 20w Remote

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output



Emergency

- Select emergency section type if required, indicate total QTY. Example 1E
- Combine battery and emergency section ordering codes if both options are selected

_FSG	Factory Select Automatic Load Control Relay (ALCR), UNV
_GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v
_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1PL1E
- Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2PL2E
- Single circuit, (1) night light section

Ordering Code: 1-1N

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery
- Emergency only, 10w Integral Battery
- Ordering Code: E-1PL
- Single circuit, GTD required

Ordering Code: 1-1PL Ordering Code: 1-1GB

Finish

 Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes

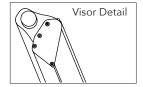
W	White (white cord/white canopy)		
S	Metallic Silver (grey cord/silver canopy)		
BL	Textured Black (black cord/black canopy)		
BR	Bronze (white cord/bronze canopy)		
GR	Graphite (white cord/graphite canopy)		
CC	Custom Color (white cord/color match canopy)		

Selecting a fixture finish other than white may impact lumen output; consult factory for more information

Fixture Options

· Additional options to enhance the fixture and finish of the product

V	Visor
DSP	Customer Supplied Battery/Driver/Sensor

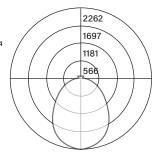


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Photometrics

Satine Lens

Test # ITL91824 Catalog # MW-HE-840VHO-4 Lumens 5401 Im Watts 39.1 W Efficacy 138 LPW



Candela Distribution

Ve	rt	Horizontal Angle

Angle					
0	22.5	45	67.5	90	
2262	2262	2262	2262	2262	
2251	2249	2248	2245	2246	
2216	2207	2204	2196	2192	
2160	2136	2132	2115	2104	
2072	2041	2025	1996	1974	
1959	1921	1894	1846	1819	
1828	1781	1732	1666	1633	
1669	1622	1554	1470	1434	
1497	1445	1362	1269	1232	
1310	1261	1170	1074	1037	
1121	1075	985	896	865	
938	890	809	731	706	
753	718	648	588	565	
587	558	502	457	443	
425	409	372	341	330	
279	271	252	236	233	
149	152	148	145	144	
49	57	68	75	78	
3	15	32	44	48	
	2262 2251 2216 2160 2072 1959 1828 1669 1497 1310 1121 938 753 587 425 279 149	2262 2262 2251 2249 2216 2207 2160 2136 2072 2041 1959 1921 1828 1781 1669 1622 1497 1445 1310 1261 1121 1075 938 890 753 718 587 558 425 409 279 271 149 152 49 57	2262 2262 2262 2251 2249 2248 2216 2207 2204 2160 2136 2132 2072 2041 2025 1959 1921 1894 1828 1781 1732 1669 1622 1554 1447 1445 1362 1310 1261 1170 1121 1075 985 938 890 809 753 718 648 587 558 502 425 409 372 279 271 252 149 152 148 49 57 68	2262 2262 2262 2262 2216 2249 2248 2245 2216 2207 2204 2196 2160 2136 2132 2115 2072 2041 2025 1996 1959 1921 1894 1846 1828 1781 1732 1666 1669 1622 1554 1470 1447 1445 1362 1269 1310 1261 1170 1074 1121 1075 985 896 938 890 931 751 753 718 648 588 587 558 502 457 425 409 372 341 279 271 252 236 149 152 148 145 49 57 68 75	

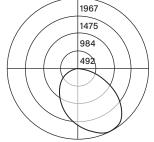
Luminance Data (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	17878	14124	12022
55	15696	11420	9438
65	13212	8855	7254
75	10055	6174	5122
85	4793	2869	2735

Bug Rating B2-U3-G1

Asymmetric Lens

Test # ITL92383 Catalog # MW-HE-840VHO-4 Lumens 4536 lm Watts 41.2 W Efficacy 110 LPW



Candela Distribution

Vert	Horizontal	Ang	le
Angle			

Aligie					
	0	22.5	45	67.5	90
0	1613	1613	1613	1613	1613
5	1717	1711	1686	1649	1607
10	1813	1797	1744	1668	1586
15	1897	1869	1789	1669	1550
20	1949	1915	1811	1652	1502
25	1967	1929	1809	1617	1434
30	1939	1900	1774	1557	1352
35	1863	1827	1698	1474	1252
40	1736	1705	1591	1368	1141
45	1570	1542	1442	1239	1015
50	1366	1349	1272	1091	880
55	1149	1143	1078	931	749
60	941	927	886	767	611
65	732	726	689	600	479
70	537	532	512	446	353
75	367	361	344	296	233
80	214	211	198	167	124
85	94	92	81	62	40
90	39	35	26	12	1

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	18201	17407	13852
55	15361	15217	12534
65	11986	12154	10781
75	8068	8428	8397
85	3296	3418	3912

Bug Rating

B2-U3-G1

Fixture tested in direct orientation. Fixture head is rotatable for asymmetric aiming as needed. For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Approvals & Certifications

Construction: 6063-T6 Extruded aluminum housing. Fixtures can be joined to create continuous runs. Standard high reflectance die-formed reflector. Fully gasketed lens and endcaps.

Shielding: Diffuse snap-in acrylic lens, removable for maintenance.

Mounting: Pendant mount, wall mount, and flush mounts available. Fixture head roation provides asymmetric output. Refer to installation instructions for appropriate ceiling detail. Maximum fixture weight is 20 lbs. per 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection: L70 lifetime - 146,500 hours and L90 lifetime - 45,000 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen Output: Four lumen packages available. Low (LO), Standard, High (HO), and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 90 CRI = R9≥50. Fixture performance and photometric data based on 4' configuration. Published lumen or wattage data based on OL1 configuration.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some MOFFAT configurations will not accommodate all voltage options: consult with factory.

Driver: Standard Driver Option is Advance Xitanium 0-10V, 1% = PL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -4F/-20C to 122F/50C For more driver options, see Pinnacle Resource Guide. Some MOFFAT configurations will not accommodate all driver options

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E), Night Light circuit (N) or Life Safety (L). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some MOFFAT configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture, fixture length increases by 1". For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish, consult factory for chip of standard paint finishes. Canopies, hubs, and pendants painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Labels: ETL listed conforming to UL1598 abd CSA 250. Approved for Wet location unless otherwise noted. IP65 rated.

Fixture Weight: Maximum fixture weight is 20 lbs (per 4' fixture).

Buy American Act Compliant

Warranty: MOFFAT LED offered with a 5-year limited warranty. Covers LED, driver and fixture.