

# WM Series

## BASIC VANDAL RESISTANT WALL PACK

Cast, Optional Full Cut-Off for Dark Sky LED

We reserve the right to revise the design or components of any product without notice.

CATALOG #		TYPE
PROJECT/LOCATION		
APPROVED BY		

### SPECIFICATIONS

- DRIVER — Universal Voltage 120/277V Electronic Driver with 0-10V dimming is standard.
- EMERGENCY — LED — Remote or Integral Emergency Battery. Specify Secondary Voltage.
- GASKETING — High temperature, non-aging black EPDM and/or Neoprene Rubber concealed in housing pocket and enclosed by cast-in drip shield and rear wire entrance hole to protect against outside contaminants.
- HOUSING — Heavy wall cast aluminum with wire access on both sides and back through threaded 1/2" conduit size entrance holes—Finished in textured Bronze oven baked. Polyester Powder Coat; Optional Full Cutoff (FC) to control atmospheric light distribution according to "Dark Sky" specifications or Side Cutoff (SDC). Available OPTIONS include Vandal Resistant Stainless Steel Wire Guard (WG) or Clear Polycarbonate Guard (PCG).
- LIGHT ENGINE — Energy Efficient Light Emitting Diode (LED).
- LENS — Borosilicate Molded Glass.
- MOUNTING HOLES — 4-Point Mount: (4) 5/16" Dia. Holes For 1/4" Dia. Bolts.
- REFLECTOR — .032 aluminum for high efficiency and reduced arc tube voltage rise.
- COMPLIANCE — Built to comply with U.S. and Canadian Safety Standards. Suitable for Wet Locations. All Models IP65 Rated. Operating Ambient -40°C to +40°C. Complies with Buy America / Buy American Act.



### ORDERING INFO

Series	Wattage	CCT	Voltage	Finish	Options
ORDERING GUIDE:					

#### SERIES

WM-M = WM Medium  
WM-D = WM Deep

#### LED WATTAGE

Refer to Below Chart for Size / Wattage Compatibility  
LED(xx) = LED (xx = Wattage, ex: LED40)

#### LED COLOR TEMPERATURE (CCT)

3K = ±3000K range  
4K = ±4000K range  
5K = ±5000K range  
65K = ±6500K range

#### VOLTAGE

347 = 347 Volts (Consult Factory)  
UNV = Universal Volt (120-277v) Electronic Driver

#### FINISH

BK = Black Finish  
BZ = Bronze Finish — STANDARD  
PNA = Painted Natural Aluminum  
SGR = Silver Gray  
WH = White Finish  
+NAT = Conformal Coating - Light Engine Only  
CC = Custom Color (Visit [www.ralcolor.com](http://www.ralcolor.com))  
— Provide RAL# or Make-to-Match Color Chip

#### HOUSING OPTIONS

FC = Full Cutoff  
PCG = Clear Polycarbonate Guard  
SDC = Side Cutoff  
WG = Wire Guard (Stainless Steel)

#### DIMMING OPTIONS

Note: 0-10V 100%-30% is Standard  
D7A = 0-10VDC LED Dimming Driver (100-10%)  
D7B = 0-10VDC LED Dimming Driver (100-1%)

#### CONTROL OPTIONS

Note: See Accessory Options for Required Remote Controller  
9328 = Photocell Button (120/277V)  
OCC = Occupancy Sensing | Motion Sensor Integral<sup>Ⓢ</sup>  
— Microwave / Single Feed / 120/277V Only  
— Standby Dim Level Presets: ON/OFF (0%/100%)  
BLD = Bi-Level Dimming | Motion Sensor Integral<sup>Ⓢ</sup>  
— Microwave / Single Feed / 120/277V Only  
— Standby Dim Level Presets:  
10% / 20% / 30% (Standard) / 50%  
BLS = Bi-Level Switching — Using 2 Drivers (2UNV)

#### MISC OPTIONS

FUS = Single Fusing  
DFUS = Double Fusing  
SG = 10KA Surge Protection (ANSI spec C62.41.2)

#### EMERGENCY / BATTERY OPTIONS Ⓢ Ⓢ Ⓢ

No onsite Emergency Power (AC or DC) is provided

Meets California Energy Commission Title 20:

(CEC-400-2014-009-CMF) Efficiency Standards

EL4W = Integral LED 4 Watt  
EL8W = Integral LED 8 Watt  
EL16W = Integral LED 16 Watt

REL4W = Remote LED 4 Watt  
REL8W = Remote LED 8 Watt  
REL16W = Remote LED 16 Watt

#### Cold Weather Emergency Batteries:

Operating Temp: -20°C thru 50°C / NON-CEC Compliant

EL10W-CW = Integral LED 10 Watt (Cold Weather)  
EL23W-CW = Integral LED 23 Watt (Cold Weather)

REL10W-CW = Remote LED 10 Watt (Cold Weather)  
REL23W-CW = Remote LED 23 Watt (Cold Weather)

#### ACCESSORY OPTIONS (order as a separate line)

REMT = Remote Controller for Sensor Options

#### NOTES:

- Ⓢ Consult Factory for additional Emergency options not shown
- Ⓢ Max mounting height of fixture is 18' (18 feet)
- Ⓢ Max WHIP length of the REL is 8 feet.
- Ⓢ Final selection of the Battery Pack under discretion of Factory

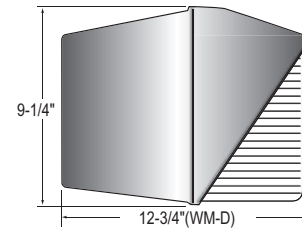
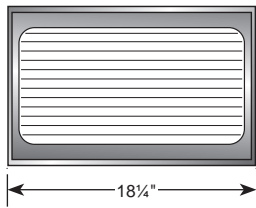
Fixture		WM Medium	WM Deep
Dimensions - W x H x D		18 1/4" x 9 1/4" x 9 1/2"	18 1/4" x 9 1/4" x 12 3/4"
Light Emitting Diode	LED	40W / 60W	40W / 60W

## DIMENSIONS

WM-Medium



WM-Deep



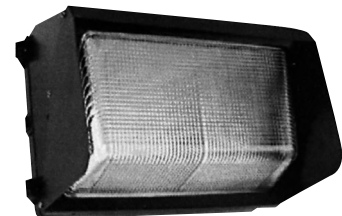
## OPTIONS



Wire Guard (WG)



Full Cut-Off (FC)



Side Cut-Off (SDC)

PHOTOMETRIC DATA

**Test # 72102218-05-LM79**

**WM-M-LED50-EBU**

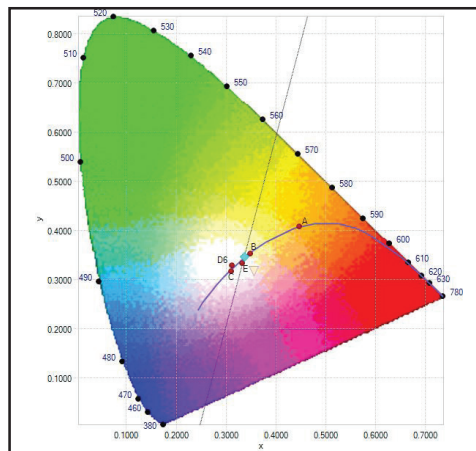
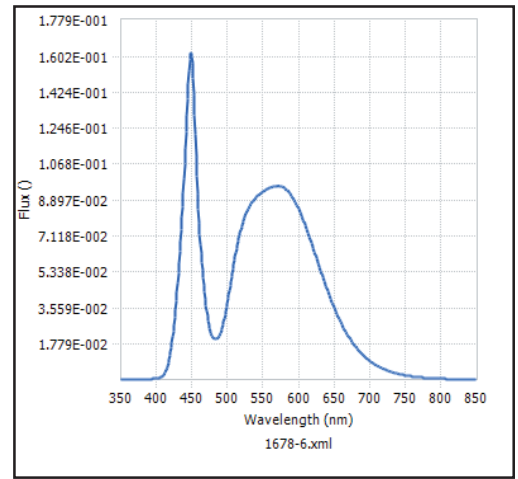
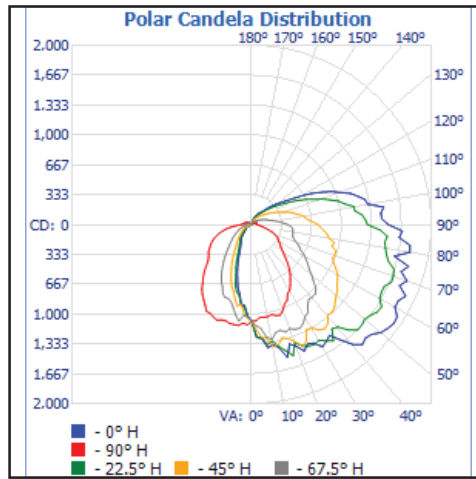
Test Date: 02/10/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample.

Summary of Results	
Total Lumen Output	5,854.0
Efficacy (Lm/W)	109.25
Maximum Candela	1,929.7 (@ 0°H; 55°V)
CRI	74.4
CCT	5317
Duv	0.00084

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-60	2,659.30	46.4
60-90	1,815.80	31.7
0-90	4,475.10	78.0
90-180	1,260.40	22.0
0-180	5,735.50	100.0

Cone of Light Tabulation		
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
3.3	97.08	10.7
6.7	24.27	21.4
10.0	10.79	32.1
13.3	6.07	42.9
16.7	3.88	53.6
20.0	2.70	64.3

Electrical Test Conditions						
Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1°C/24.8°C	120.08	0.448	53.58	0.996	60.0	1.27%



Chromaticity Coordinates	
Chromaticity (x)	0.3367
Chromaticity (y)	0.3464
Chromaticity (u)	0.2078
Chromaticity (v)	0.3206
Chromaticity (u')	0.2078
Chromaticity (v')	0.4809

PHOTOMETRIC DATA

**Test # LLI-15007-3**

**WM-M-LED60-(2)EBU-FRG**

Test Date: 01/13/2015 — Tested in accordance with LM-79-80. The results contained in this summary report pertain only to the tested sample.

POWER FACTOR	0.88 @ 277 V
LUMENS (Light Output)	3845
WATTS	45.8
EFFICACY (Lmns per Watt)	84
CRI (Color Rendering Index)	83
CCT (Correlated Color Temp.)	5090K
Text Fixture Description: Cast aluminum housing with prismatic clear glass wrap lens.	

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	529	13.8
0-40	889	23.1
0-60	1748	45.5
0-90	2926	76.1
40-90	2037	53.0
60-90	1177	30.6
90-180	917	23.9
0-180	3843	100.0

