

Liverpool

FULL CUT-OFF WALL PACK FAMILY

Low Height Wall Mount

Vandal Resistant 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.
- EMERGENCY — LED — Remote or Integral.
- GASKETING — High temperature, non-aging black EPDM or neoprene rubber around the entire lens perimeter and rear wire entrance hole to protect against dust, moisture and outside contaminants.
- HOUSING — All aluminum construction, easy 2-piece installation, optional back box for emergency battery backup operation. Finished in bronze oven baked polyester powder coat.
- LIGHT ENGINE — Energy Efficient Light Emitting Diode (LED).
- LENS — Clear tempered glass (94) is Standard. Optional: Clear polycarbonate (92), Prismatic polycarbonate (80, 81).
- LENS FASTENERS — Stainless steel tamperproof screws to secure lens door.
- REFLECTOR — .020" specular aluminum (standard), painted white optional.
- COMPLIANCE — Built to comply with U.S. and Canadian safety standards. Suitable for Wet Locations. **Made in USA / Buy America Compliant / Buy American Act.**



Series	Style	Distribution	Wattage	CCT	Voltage	Finish	Options

ORDERING GUIDE:

SERIES

LV = Liverpool Series (13"W x 13½"H x 11¾"D)

STYLE

- A = Direct (Downlight)
- B = Indirect (Uplight - Indoor Only)

DISTRIBUTION TYPE

- FT = Forward Throw Distribution
- WS = Wide Spread Distribution

LED WATTAGE

LED30 = 30 Watt LED (4000 Initial Lumens)

COLOR TEMPERATURE (CCT)

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

VOLTAGE

- 347 = 347 Volts
- UNV = Universal Volt (120-277v) Driver
- 2UNV = 2 Universal Volt (120-277v) Drivers

FINISH

- BK = Black Finish
- BZ = Bronze Finish – Standard
- PNA = Painted Natural Aluminum
- WH = White Finish
- CC = Custom Color (Visit www.ralcolor.com)
— Provide RAL# or Make-to-Match Color Chip

LENS OPTIONS

- 80 = .125" K12 Prismatic Polycarbonate
- 81 = .156" K12 Prismatic Polycarbonate
- 92 = .187" Clear Polycarbonate
- CFP = Clear Frosted Polycarbonate Lens Filter

POLE MOUNTING OPTIONS

- RPMA = Round Pole Mount Arm to 4" Straight Pole
Specify Type: A=Aluminum | S=Steel
Specify Length: AM1=5" | AM2=11"
- RPMB = Round Pole Mount Bracket to 4" Straight Pole
Specify Type: A=Aluminum | S=Steel
- SPMA = Square Pole Mount Arm to 4" Straight Pole
Specify Type: A=Aluminum | S=Steel
Specify Length: AM1=5" | AM2=11"
- SPMB = Square Pole Mount Bracket to 4" Straight Pole
Specify Type: A=Aluminum | S=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^②
— Microwave / Single Feed / 120/277V Only
— Standby Dim Level Presets: ON/OFF (0%/100%)
- BLD = Bi-Level Dimming | Motion Sensor Integral^②
— Microwave / Single Feed / 120/277V Only
— Standby Dim Level Presets:
10% / 20% / 30% (Standard) / 50%
- BLDA = Bi-Level Dimming | Motion Sensor Integral^②
— Ambient Light Sensing Feature (AMB)
— Microwave / Single Feed / 120/277V Only
— Standby Dim Level Presets:
10% / 20% / 30% (Standard) / 50%
— Bi-Level Control Initiated at AMB Light Level Preset
- BLS = Bi-Level Switching — Using 2 Drivers (2UNV)

MISC OPTIONS

- BB = Back Box
- FUS = Single Fusing
- DFUS = Double Fusing
- SG = 10KA Surge Protection (ANSI spec C62.41.2)
- TP = Tamperproof Screws

EMERGENCY BATTERY OPTIONS^{② ③ ⑤}

No onsite Emergency Power (AC or DC) is provided

- GTD1 = Generator Transfer Device (Signify)
- GTD2 = Generator Transfer Device (LGTD)
— Shunt Relay w/Fire Alarm Override Input

Meets California Energy Commission Title 20:
(CEC-400-2014-009-CMF) Efficiency Standards

- EL4W = Integral LED 4 Watt^②
- EL8W = Integral LED 8 Watt^②
- EL16W = Integral LED 16 Watt^②
- EL20W = Integral LED 20 Watt^②

- REL4W = Remote LED 4 Watt
- REL8W = Remote LED 8 Watt
- REL16W = Remote LED 16 Watt
- REL20W = Remote LED 20 Watt

Cold Weather Emergency Batteries:

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

- EL10W-CW = Integral LED 10 Watt (Cold Weather)^②
- EL23W-CW = Integral LED 23 Watt (Cold Weather)^②

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

ACCESSORY OPTIONS (order as a separate line)

- 9002 = Tamperproof Screwdriver
- REMIT = Remote Controller for Sensor Options

NOTES:

- Consult Factory with requests regarding wattages not shown.
- Backbox (BB) Required.
- 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

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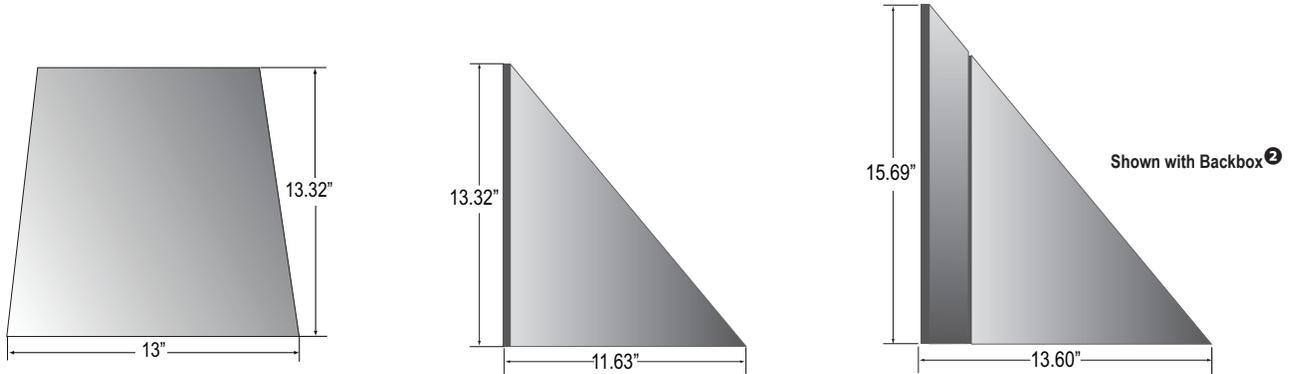
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Vandal Resistant LED

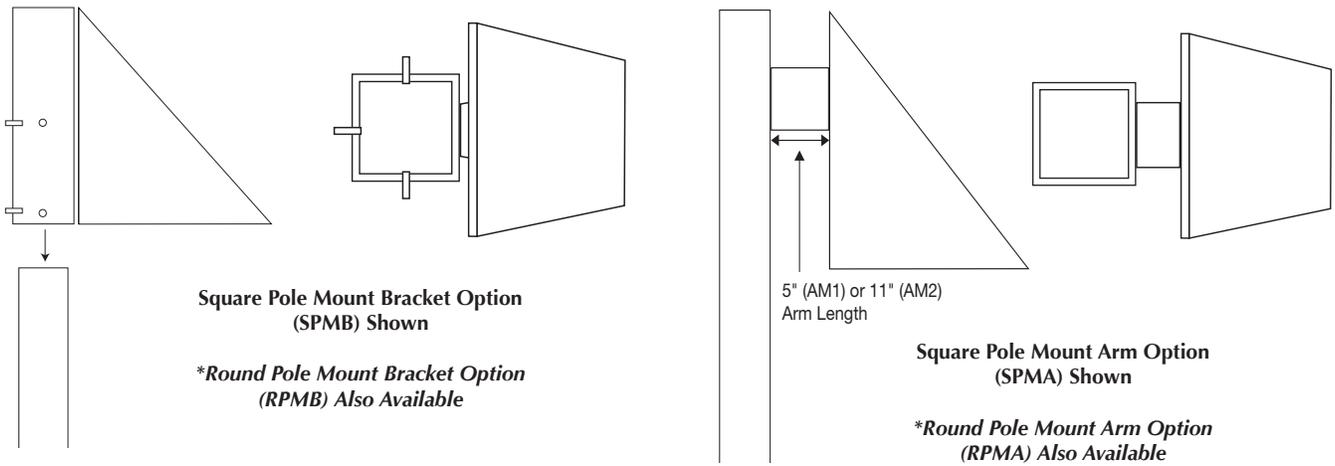
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DIMENSIONS



POLE MOUNTING OPTIONS



Test Date: 08/10/2016

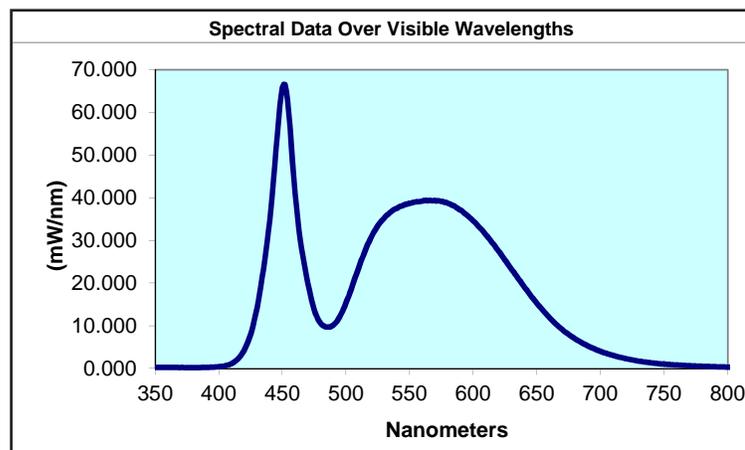
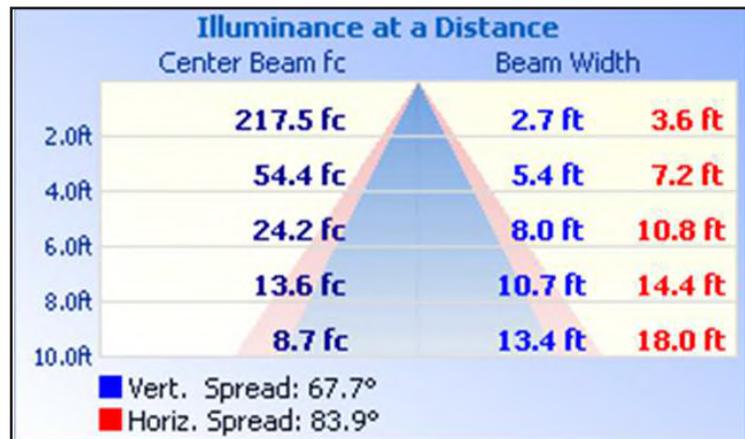
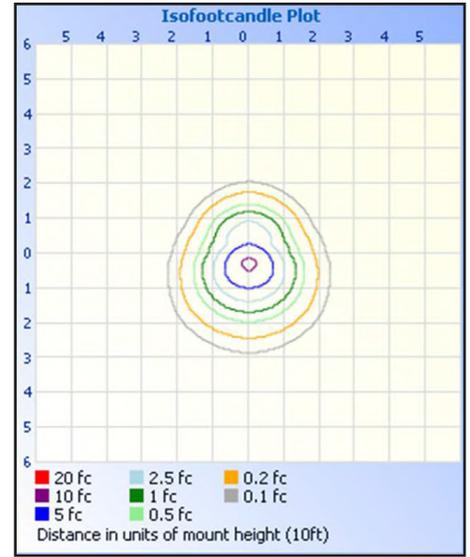
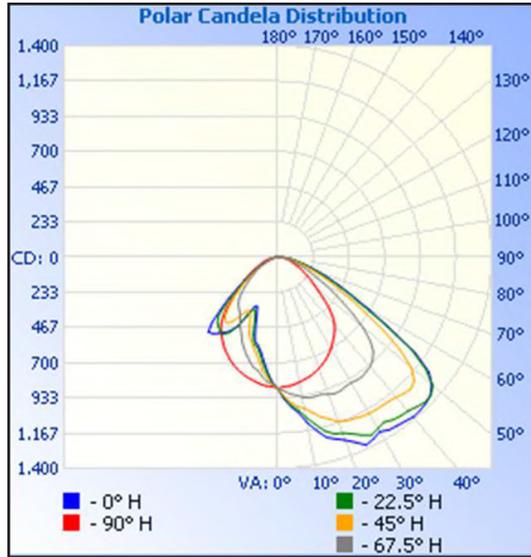
Tested in accordance with LM-79-80
The results contained in this summary report pertain only to the tested sample

Electrical Test Conditions						
Temp	Voltage	Current	Power	Power Factor	Current THD	BUG Rating
25°C (±1°C)	120	316.0mA	37.38	0.996	3.78%	B1-U0-G1

Summary of Results	
Total Lumen Output	2743.0
Efficacy (Lm/W)	72.60
CRI	75.7
CCT	5351
Duv	0.002

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	700.0	26.7
0-40	1222	46.6
0-60	2264	86.4
60-90	355.2	13.6
0-90	2619	100.0
90-180	0.0	0.0
0-180	2619	100.0

Chromaticity Coordinates	
Chromaticity (x)	0.336
Chromaticity (y)	0.348
Chromaticity (u')	0.207
Chromaticity (v')	0.482



Test Date: 02/10/2015

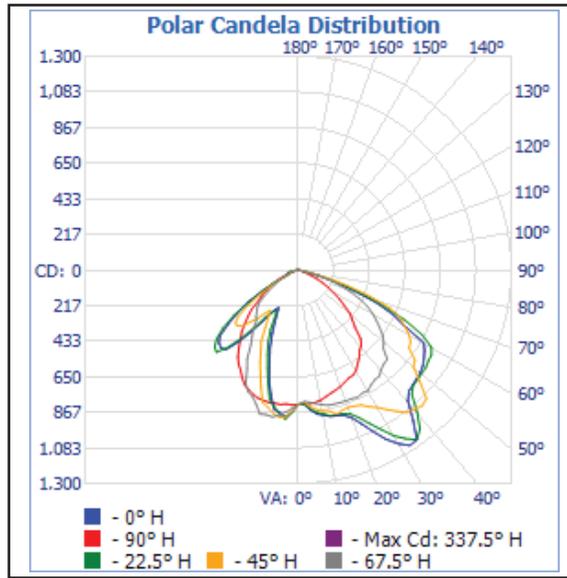
Tested in accordance with LM-79-80
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Electrical Test Conditions						
Temp	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1°C / 25°C	120.04	0.225	26.83	0.994	60.0	3.78%

Summary of Results	
Total Lumen Output	2,643.0
Efficacy (Lm/W)	98.50
Maximum Candela	1,282.3 (@ 337.5°H; 35°V)
CRI	74.3
CCT	5380
Duv	0.00047

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-60	2,151.6	83.9
60-90	414.2	16.1
0-90	2,565.7	100.0
90-180	0.0	0.0
0-180	2,565.7	100.0

Cone of Light Tabulation		
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
3.3	73.58	5.7
6.7	18.40	11.4
10.0	8.18	17.1
13.3	4.60	22.8
16.7	2.94	28.5
20.0	2.04	34.2



Chromaticity Coordinates	
Chromaticity (x)	0.3352
Chromaticity (y)	0.3444
Chromaticity (u)	0.2075
Chromaticity (v)	0.3198
Chromaticity (u')	0.2075
Chromaticity (v')	0.4796

