

## DESCRIPTION

The Prevail LED area, site luminaire combines optical performance, energy efficiency and long term reliability in an advanced, patent pending modern design. Utilizing the latest LED technology, the Prevail luminaire delivers unparalleled uniformity resulting in greater pole spacing. A versatile mount standard arm facilitates ease of installation for both retrofit and new installations. With energy savings greater than 85%, the Prevail fixture replaces 150-1,000W metal halide fixtures in general area lighting applications such as parking lots, walkways, roadways and building areas.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>			
<b>Comments</b>		<b>Date</b>	
<b>Prepared by</b>			

## SPECIFICATION FEATURES

### Construction

Construction is comprised of a heavy-duty, single-piece die-cast aluminum housing. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. The die-cast aluminum door is tethered to provide easy access to the driver if replacement is required. A one-piece silicone gasket seals the door to the fixture housing. The optics is mounted on a versatile, aluminum plate that dissipates heat from the LEDs resulting in longer life of the fixture. The fixture is IP66 and vibration rated (ANSI C136.31) to insure strength of construction and longevity in the selected application.

### Optics

Precision molded, high efficiency optics are precisely designed to shape the distribution, maximizing efficiency and application spacing. Available in Type II, III, IV and V distributions with lumen packages ranging from 6,100 to 18,900 nominal lumens. Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards

to maximize heat dissipation and promote long life. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed.

### Electrical

LED drivers are mounted to the fixture for optimal heat sinking and ease of maintenance. Class 1 electronic drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Available in 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. 10kV/10 kA surge protection standard. 0-10V dimming driver is standard with leads external to the fixture. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA (high ambient) available. Standard NEMA 3-PIN twistlock photocontrol receptacle and NEMA 7-PIN twistlock photocontrol receptacles are available as options.

### Controls

See Control Options section for more details on available offerings.

### Mounting

Standard pole mount arm is bolted directly to the pole and the fixture slides onto the arm and locks in place with a bolt facilitating quick and easy installation. The versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the standard mounting arm enables wiring of the fixture without having to access the driver compartment. A knock-out on the standard mounting arm enables round pole mounting. Wall mount and mast arm mounting options are available. Mast arm adapter fits 2-3/8" O.D. tenon.

### Finish

Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is bronze. Additional colors available in white, grey, black, dark platinum and graphite metallic.

### Warranty

Five-year warranty.



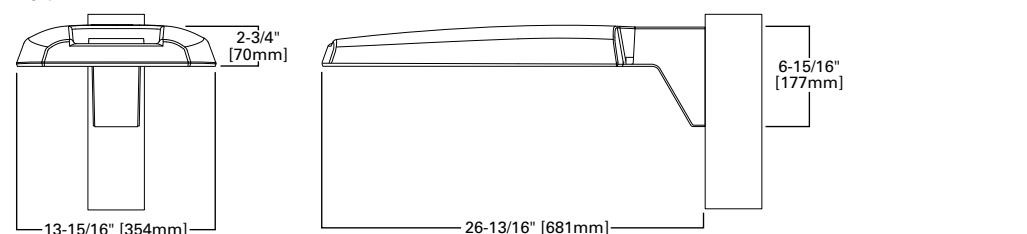
## PRV / PRV-XL PREVAIL

LED

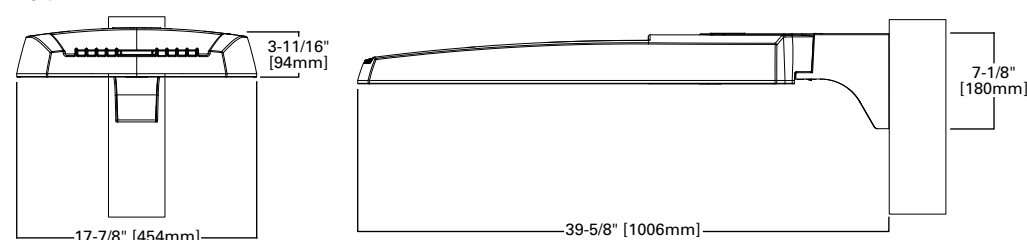
AREA / SITE / ROADWAY  
LUMINAIRE

## DIMENSIONS

### Prevail



### Prevail XL



### CERTIFICATION DATA

UL and cUL Wet Location Listed  
DesignLights Consortium® Qualified\*  
IP66-Rated  
3G Vibration Rated (PRV)  
1.5G Vibration Rated (PRV-XL)  
ISO 9001  
FCC Class A

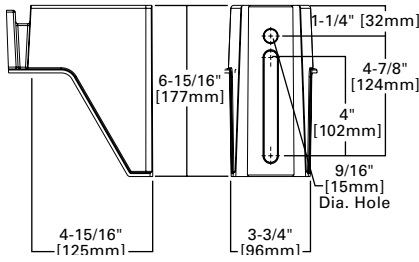
### ENERGY DATA

**Electronic LED Driver**  
0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 and 60Hz,  
347V/60Hz, 480V/60Hz  
-40°C Minimum Temperature Rating  
+40°C Ambient Temperature Rating

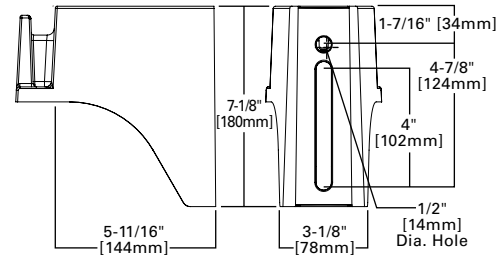
### SHIPPING DATA

**Approximate Net Weight:**  
PRV: 20 lbs. (9.09 kgs.)  
PRV-XL: 45 lbs. (20.41 kgs.)

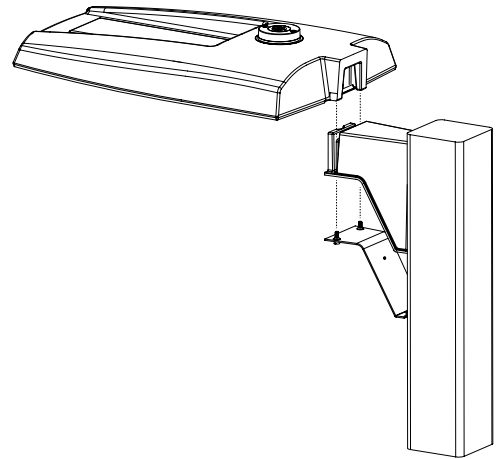
**POLE MOUNT ARM (PRV)**



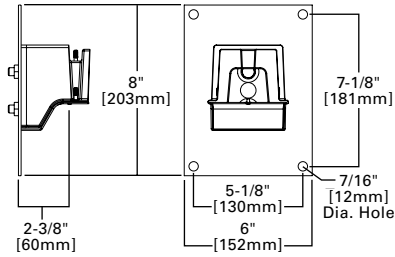
**POLE MOUNT ARM (PRV-XL)**



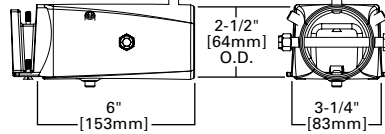
**VERSATILE MOUNT SYSTEM**



**WALL MOUNT (PRV)**

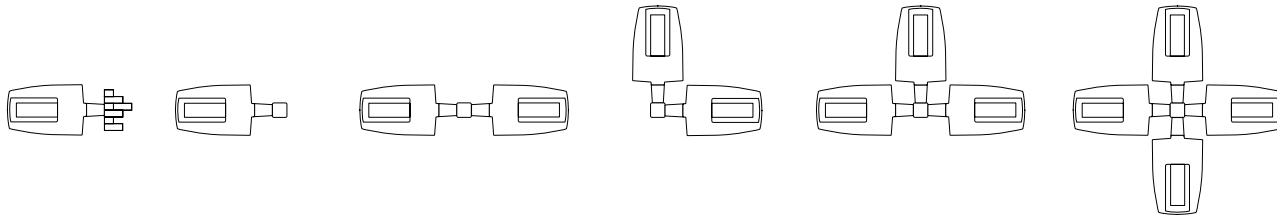


**MAST ARM MOUNT (PRV)**



**MOUNTING CONFIGURATIONS AND EPAS**

Wall Mount	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
EPA 0.75 (PRV) EPA 1.12 (PRV-XL)	EPA 0.75 (PRV) EPA 1.12 (PRV-XL)	EPA 1.50 (PRV) EPA 2.25 (PRV-XL)	EPA 1.50 (PRV) EPA 2.13 (PRV-XL)	EPA 2.25 (PRV) EPA 2.52 (PRV-XL)	EPA 3.00 (PRV) EPA 2.52 (PRV-XL)



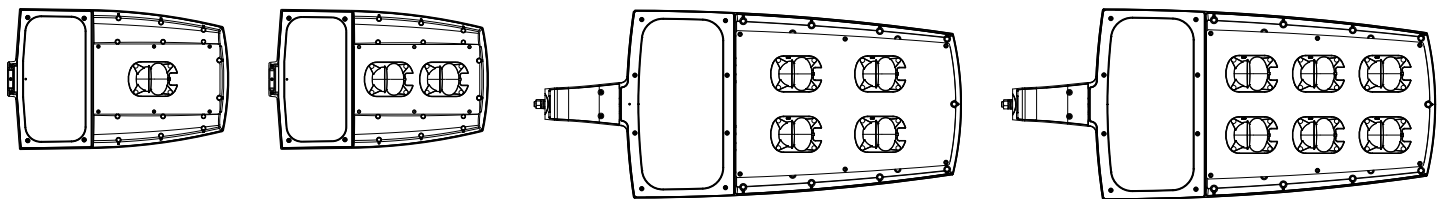
**OPTICAL CONFIGURATIONS**

**PRV-C15**  
(7,100 Nominal Lumens)

**PRV-C25/C40/C60**  
(13,100/17,100/20,000  
Nominal Lumens)

**PRV-XL-C75/C100/C125**  
(26,100/31,000/36,300 Nominal Lumens)

**PRV-XL-C150/C175**  
(41,100/48,600 Nominal Lumens)



**POWER AND LUMENS (PRV)**

Light Engine	C15	C25	C40	C60	
Power (Watts)	52	96	131	153	
Input Current @ 120V (A)	0.43	0.80	1.09	1.32	
Input Current @ 277V (A)	0.19	0.35	0.48	0.57	
Input Current @ 347V (A)	0.17	0.30	0.41	0.48	
Input Current @ 487V (A)	0.12	0.22	0.30	0.35	
<b>Distribution</b>					
Type II	4000K Lumens	7,123	13,205	17,172	20,083
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K Lumens	6,994	12,965	16,860	19,718
Type III	4000K Lumens	7,111	13,183	17,144	20,050
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,982	12,944	16,832	19,686
Type IV	4000K Lumens	7,088	13,140	17,087	19,984
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5
	3000K Lumens	6,959	12,901	16,777	19,621
Type V	4000K Lumens	7,576	14,045	18,264	21,360
	BUG Rating	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4
	3000K Lumens	7,438	13,790	17,932	20,972

**LUMEN MAINTENANCE**

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Up to PRV-C60 at 25°C	91.30%	194,000
Up to PRV-C60 at 40°C	87.59%	134,000
Up to PRV-XL-C175 at 25°C	91.40%	204,000
Up to PRV-XL-C175 at 40°C	89.41%	158,000

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

**POWER AND LUMENS (PRV-XL)**

Light Engine	C75	C100	C125	C150	C175	
Power (Watts)	176	217	264	285	346	
Input Current @ 120V (A)	1.50	1.84	2.21	2.38	2.92	
Input Current @ 277V (A)	0.66	0.82	0.97	1.04	1.25	
Input Current @ 347V (A)	0.54	0.66	0.79	0.84	1.02	
Input Current @ 487V (A)	0.40	0.48	0.57	0.62	0.74	
<b>Distribution</b>						
Type II	4000K Lumens	26,263	31,231	36,503	41,349	48,876
	BUG Rating	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	3000K Lumens	25,786	30,664	35,840	40,598	47,989
Type III	4000K Lumens	26,120	31,061	36,304	41,124	48,610
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	3000K Lumens	25,646	30,497	35,645	40,377	47,727
Type IV	4000K Lumens	26,098	31,035	36,274	41,089	48,569
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	3000K Lumens	25,624	30,471	35,615	40,343	47,687
Type V	4000K Lumens	28,129	33,450	39,097	44,287	52,349
	BUG Rating	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	3000K Lumens	27,618	32,843	38,387	43,483	51,398

**CONTROL OPTIONS**

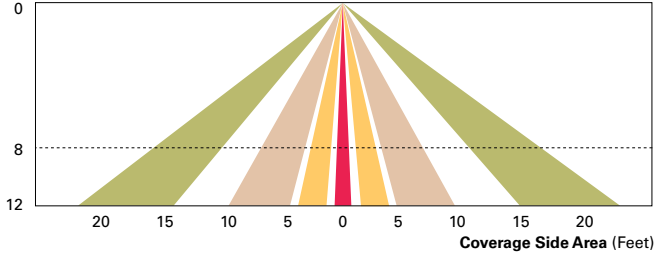
**0-10V (D)** The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

**Photocontrol (PER and PER7)** Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

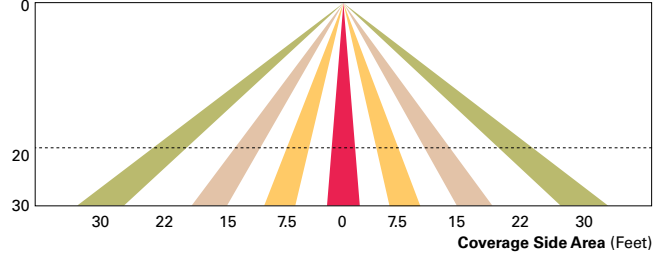
**Dimming Occupancy Sensor (MSP and MS)** These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (/DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation is selected, the luminaire will turn off after five minutes of no activity.

These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". Note: For MSP sensors, the factory preset is ON (Enabled), and for MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

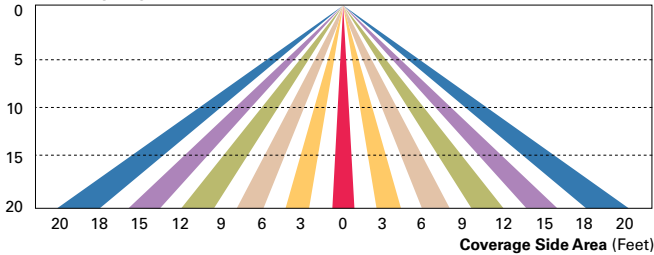
For mounting heights from 8' to 12' (-L12)



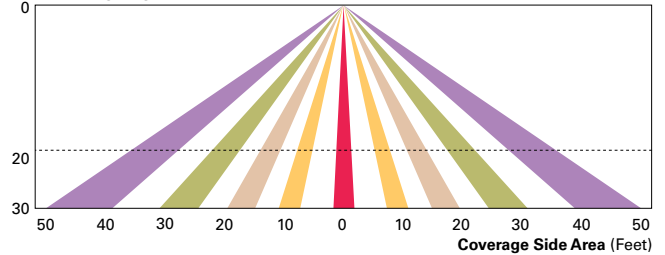
For mounting heights from 12' to 30' (-L30)



For mounting heights from 9' to 20' (-L20)



For mounting heights from 21' to 40' (-L40W)

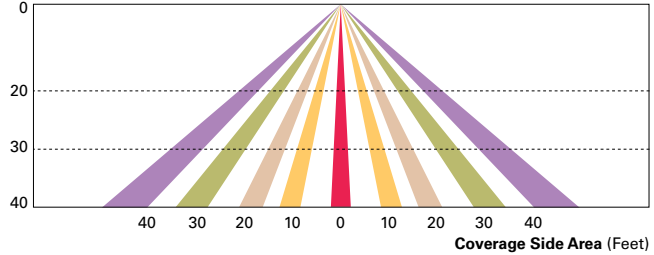


**WaveLinx Wireless Control and Monitoring System** Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

**WaveLinx Outdoor Control Module (WOLC-7P-10A)** A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

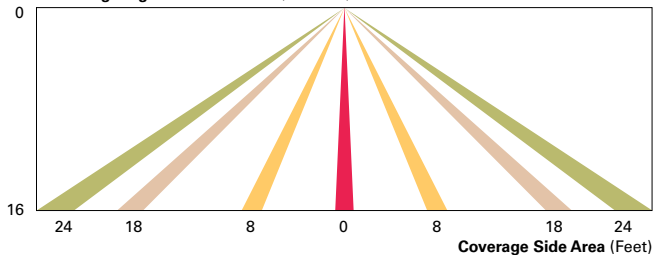
**WaveLinx Wireless Sensor (SWPD4 and SWPD5)** These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)

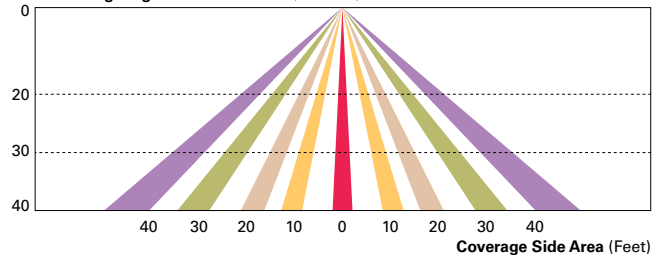


**LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)** The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



**LumenSafe Integrated Network Security Camera (LD)** The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

**ORDERING INFORMATION**


Sample Number: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family <sup>1,2</sup>	Light Engine <sup>3</sup>	Driver	Voltage	Distribution	Mounting	Color
PRV=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	D=Dimming (0-10V)	UNV=Universal (120-277V) 347=347V 480=480V <sup>4</sup>	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=Standard Versatile Arm MA=Mast Arm <sup>5</sup> WM=Wall Mount Arm <sup>5</sup>	AP=Grey BZ=Bronze (Standard) BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
PRV-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens					

Options (Add as Suffix)	Accessories (Order Separately) <sup>16</sup>
<p>7030=70 CRI / 3000K CCT <sup>6</sup>                      7050=70 CRI / 5000K CCT <sup>6</sup>                      HSS=House Side Shield <sup>7</sup>                      L90=Optics Rotated 90° Left                      R90=Optics Rotated 90° Right                      10K=10kV/10kA UL 1449 Fused Surge Protective Device                      HA=50°C High Ambient Temperature <sup>8</sup>                      PER=NEMA 3-PIN Twistlock Photocontrol Receptacle                      PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle                      MSP/DIM-L12= Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height <sup>5,9</sup>                      MSP/DIM-L30= Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height <sup>5,9</sup>                      MSP-L12= Integrated Sensor ON/OFF Operation, 8' - 12' Mounting Height <sup>5,9</sup>                      MSP-L30=Integrated Sensor ON/OFF Dimming Operation, 12' - 30' Mounting Height <sup>5,9</sup>                      MS-DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>9,10</sup>                      MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>9,10</sup>                      MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>9,10</sup>                      MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>9,10</sup>                      ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle <sup>9,11,12</sup>                      ZW-SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White <sup>9,11,12</sup>                      ZW-SWPD4BZ= Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze <sup>9,11,12</sup>                      ZW-SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White <sup>9,11,12</sup>                      ZW-SWPD5BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze <sup>9,11,12</sup>                      LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>9,13</sup>                      LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>9,13</sup>                      (See Table Below)= LumenSafe Integrated Network Security Camera <sup>14,15</sup></p>	<p>PRVWM-XX=Wall Mount Kit <sup>5</sup>                      PRVMA-XX=Mast Arm Mounting Kit <sup>5</sup>                      PRVSA-XX=Standard Arm Mounting Kit <sup>5</sup>                      PRVXLSA-XX=Standard Arm Mounting Kit (for Prevail XL) <sup>14</sup>                      MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon                      MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon                      MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon                      MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon                      HS/VERD=House Side Shield <sup>7</sup>                      VGS-F/B=Vertical Glare Shield, Front/Back <sup>7</sup>                      VGS-SIDE=Vertical Glare Shield, Side <sup>7</sup>                      OA/RA1013=Photocontrol Shorting Cap                      OA/RA1014=NEMA Photocontrol - 120V                      OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V                      OA/RA1201=NEMA Photocontrol - 347V                      OA/RA1027=NEMA Photocontrol - 480V                      ISHH-01=Integrated Sensor Programming Remote <sup>17</sup>                      FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>18</sup>                      SWPD4-WH=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, White <sup>12,19</sup>                      SWPD4-BZ=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, Bronze <sup>12,19</sup>                      SWPD5-WH=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, White <sup>12,19</sup>                      SWPD5-BZ=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, Bronze <sup>12,19</sup>                      WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) <sup>20</sup></p>

- NOTES:**
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
  - Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information.
  - Standard 4000K CCT and 70CRI.
  - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
  - Only available in PRV configurations C15, C25, C40 or C60.
  - Use dedicated IES files on product website for non-standard CCTs.
  - Option will come factory-installed. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6). House Side Shield not suitable with T5 distribution or C60 lumen package.
  - Not available with C60 lumen package.
  - Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, ZW or LWR).
  - Utilizes the Wattstopper sensor FSP-211.
  - Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
  - In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
  - LumaWatt Pro wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for LumaWatt Pro application information.
  - Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
  - Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
  - Replace XX with paint color.
  - This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
  - This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
  - Requires Wavelinx-enabled 4-PIN twistlock receptacle (ZW) option.
  - Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, MSP, ZW or LWR).

**LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)**

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	D=Dome Camera	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card E=Ethernet Networking

**STOCK ORDERING INFORMATION**

Product Family <sup>1</sup>	Light Engine	Voltage	Distribution	Options (Add as Suffix)
PRVS=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	UNV=Universal (120-277V) 347=347V <sup>2</sup>	T3=Type III T4=Type IV	MSP/DIM-L30=Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height <sup>2</sup>
PRVS-XL=Prevail	C75=(4 LEDs) 26,100 Nominal Lumens C100=(4 LEDs) 31,000 Nominal Lumens C125=(4 LEDs) 36,000 Nominal Lumens C150=(6 LEDs) 41,100 Nominal Lumens C175=(6 LEDs) 48,600 Nominal Lumens			

**NOTES:** 1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. 2. Only available in PRVS configurations C15, C25, C40 or C60.