



GE Evolve[®]

LED Roadway Lighting

ERL2



current
powered by GE



GE Evolve®

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

Typical Specifications: ERL1-ERLH-ERL2

LED & Optical

- **Output Range:** 1900 – 30000 lm
- **Photometric Options:** Type II Narrow, Type II Wide, Type III, Type IV
- **System Efficacy:** 100 - 145 LPW
- **CCT:** 2700K, 3000K, 4000K; LEDs @ 70 CRI

Lumen Maintenance Tables

Projected Lxx per IES TM-21 at 25°C for reference:

ERL1 LUMEN OUTPUT CODES	LXX(10K)@HOURS		
	25,000 HR	50,000 HR	60,000 HR
02,03,04,05,06	L96	L95	L94
07,08,09	L95	L91	L89
10	L89	L80	L76

ERLH LUMEN OUTPUT CODES	LXX(10K)@HOURS		
	25,000 HR	50,000 HR	60,000 HR
10, 11	L97	L96	L96
13, 14	L95	L93	L92
15, 16	L94	L91	L91

ERL2 LUMEN OUTPUT CODES	LXX(10K)@HOURS		
	25,000 HR	50,000 HR	60,000 HR
16, 18, 19, 21, 23	L96	L94	L95
25, 27, 28	L95	L93	L92
30	L94	L91	L90

Note: Projected Lxx based on LM80 (10,000 hour testing). Accepted industry tolerances apply to initial luminous flux and lumen maintenance measurements.

Electrical

- **Input Voltage:** 120-277 volt and 347-480 volt
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)*:** >90%
- **Total Harmonic Distortion (THD)*:** <20%

*Power factor and THD tolerance exceptions: ERL1 "02" Lumen output: PF and THD within tolerances above only at 120 volt. ERL1 "03" Lumen output: @120 volt PF~0.89; @ 480 volt THD~26% ERL1 "04" Lumen output: @480 volt THD~22%

Ratings

- **Surge Protection:** per ANSI C136.2-2015: (Driver Internal):
 - 6kV/3kA "Basic: (120 Strikes)" - Standard on ERL1 (02-06)
 - 10kV/5kA "Enhanced: (40 Strikes)" - Standard on ERL1 (07 - 10), ERLH, ERL2
- **(Additional Separate Secondary SPD)**
 - 10kV/5kA "Enhanced: (40 Strikes)" - Option "R"
 - 20kV/10kA "Elevated" (40 Strikes) - Option "T"
- **Safety:** UL/cUL Listed. UL 1598 listed, suitable for wet locations (UL) (UL)
- **Environmental:** Compliant with the materials restrictions of RoHS
- **EMI:** Title 47 CFR Part 15 Class A
- **Vibration:** 3G per ANSI C136.31-2010
- LM-79 testing in accordance with IESNA Standards
- Std. Optical enclosure rated per ANSI C136.25-2009:
 - ERL1/ERLH/ERL2 = IP65, Optional: IP66

Operating Temperature:

PRODUCT ID	LUMEN OUTPUT	AMBIENT READING
ERL1	02-10	-40°C to 50°C
ERLH	10-11, 13	-40°C to 50°C
ERLH	14-16	-40°C to 45°C
ERL2	16-28	-40°C to 50°C
ERL2	30	-40°C to 45°C

Delayed start may be experienced < -35°C

Construction & Finish

- **Housing:**
 - Die Cast Enclosure
 - Casting-integral heat sink for maximum heat transfer
- **Lensing:** Impact resistant tempered glass, standard
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
 - Standard Colors: Dark Bronze, Black, & Gray
 - RAL & custom colors available
 - Optional coastal finish available.
- **Weight:** 12.4lbs (5.6kg) – 24lbs (10.9kg)

Warranty

- **System Warranty:** 5 Year Standard, 10 Year Optional

Controls

- **Dimming:**
 - Standard: 0-10V; Optional: DALI (120-277V Only)
- **Sensors:**
 - Photo electric sensors (PE) available.
- LightGrid™ compatible

Mounting

- Slipfitter with +/- 5 degree of adjustment for leveling.
- Integral die cast mounting pipe stop.
- Adjustable for 1.25 in. or 2 in. mounting pipe.

Suggested HID Replacement Lumen Levels

- ~4,000–5,000 lumens to replace 100W HPS Cobra-head
- ~7,000–8,800 lumens to replace 150W HPS Cobra-head
- ~8,500–11,500 lumens to replace 200W HPS Cobra-head
- ~11,500–14,000 lumens to replace 250W HPS Cobra-head
- ~21,000–30,000 lumens to replace 400W HPS Cobra-head

Note: Actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

PREVIOUS	DESCRIPTION	CURRENT	DESCRIPTION
A1, B1	Extra Narrow/Narrow Asymmetric	A3	Type II Narrow
C1, E1	Asymmetric Short/Medium	B3	Type II Wide
D1, G1	Asymmetric Forward/Extra Wide	C3	Type III
F1	Asymmetric Wide	D3	Type IV
		E3	Type II Enhanced Back Light

**The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is to do a lighting layout Utilizing AGI.



International Dark Sky Association listed. 2700K or 3000K must be selected to meet IDA certification and approval.

GE Evolve®

LED Roadway Lighting

ERL1-ERLH-ERL2



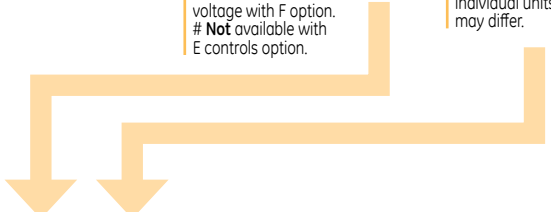
Project name _____

Date _____

Type _____

E R L 2 **0** **23** **C3** **40** **A** **GRAY** **IL**

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve	0 = 120-277V*	16	A3 = Type II Narrow	27 = 2700K <>	A = ANSI C136.41 7-pin	GRAY = Gray	A = 4 Bolt Slipfitter †
R = Roadway	1 = 120	18	B3 = Type II Wide	30 = 3000K <>	D = ANSI C136.41 7-pin with Shorting Cap	BLCK = Black	F = Fusing
L = Local	2 = 208	19	C3 = Type III	40 = 4000K	E = ANSI C136.41 7-pin with non-Dimming PE Control.*	DKBZ = Dark Bronze	G = Internal Bubble Level
2 = Double Module	3 = 240	21	D3 = Type IV	<> Select 2700K or 3000K CCT for IDA approved units.			† = IP66 Optical
	4 = 277	23	E3 = Type II Enhanced Back Light				L = Tool-Less Entry
	5 = 480	25	See Table		*PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V or 347V Discrete.		M1 = Magnapack***
	D = 347	27	*Nominal IES Type classing subject to typical variation, individual units may differ.		NOTE: Dimming controls wired for 0-10V standard unless DALI option "U" requested.		R = Secondary 10kV/5kA SPD
	H = 347-480*#	28					T = Secondary 20kV/10kA SPD
		30					U = DALI Programmable ^
	* Not available with Fusing. Must choose a discrete voltage with F option. # Not available with E controls option.	See Table					V1 = Variable Output via Field Adjustable Module**
							Y = Coastal Finish*
							XXX = Special Options
							† Contact manufacturer for Lead-Time.
							* Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time.
							+ Compatible with LightGrid 2.0 nodes.
							^ Not available in 347V, 480V or 347-480V.
							** Not available with DALI (U) option.
							*** 20 fixtures per Magnapack.



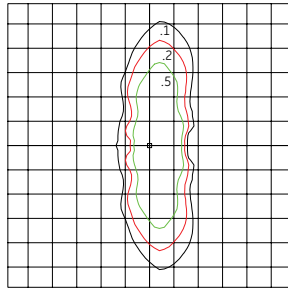
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE		BUG RATING			IES FILE NUMBER							
		4000K	3000K	2700K	120-277V	347-480V	4000K	3000K	2700K	4000K		3000K		2700K			
										120-277V	347-480V	120-277V	347-480V	120-277V	347-480V		
16	A3				120				B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_16A340_IES		ERL2_16A330_IES		ERL2_16A327_IES	
	B3					B3-U0-G3	B3-U0-G3	B2-U0-G3	ERL2_16B340_IES		ERL2_16B330_IES		ERL2_16B327_IES				
	C3	16000	15300	14900		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_16C340_IES		ERL2_16C330_IES		ERL2_16C327_IES				
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_16D340_IES		ERL2_16D330_IES		ERL2_16D327_IES				
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_16E340_IES		ERL2_16E330_IES		ERL2_16E327_IES				
18	A3				140				B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_18A340_IES		ERL2_18A330_IES		ERL2_18A327_IES	
	B3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_18B340_IES		ERL2_18B330_IES		ERL2_18B327_IES				
	C3	18000	17300	16700		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_18C340_IES		ERL2_18C330_IES		ERL2_18C327_IES				
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_18D340_IES		ERL2_18D330_IES		ERL2_18D327_IES				
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_18E340_IES		ERL2_18E330_IES		ERL2_18E327_IES				
19	A3				149				B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_19A340_IES		ERL2_19A330_IES		ERL2_19A327_IES	
	B3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_19B340_IES		ERL2_19B330_IES		ERL2_19B327_IES				
	C3	19000	18200	17700		B3-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_19C340_IES		ERL2_19C330_IES		ERL2_19C327_IES				
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_19D340_IES		ERL2_19D330_IES		ERL2_19D327_IES				
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_19E340_IES		ERL2_19E330_IES		ERL2_19E327_IES				
21	A3				174	177			B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_21A340_120-277VIES	ERL2_21A340_347-480VIES	ERL2_21A330_120-277VIES	ERL2_21A330_347-480VIES	ERL2_21A327_120-277VIES	ERL2_21A327_347-480VIES
	B3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_21B340_120-277VIES	ERL2_21B340_347-480VIES	ERL2_21B330_120-277VIES	ERL2_21B330_347-480VIES	ERL2_21B327_120-277VIES	ERL2_21B327_347-480VIES		
	C3	21000	20100	19500			B3-U0-G4	B3-U0-G3	B3-U0-G3	ERL2_21C340_120-277VIES	ERL2_21C340_347-480VIES	ERL2_21C330_120-277VIES	ERL2_21C330_347-480VIES	ERL2_21C327_120-277VIES	ERL2_21C327_347-480VIES		
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERL2_21D340_120-277VIES	ERL2_21D340_347-480VIES	ERL2_21D330_120-277VIES	ERL2_21D330_347-480VIES	ERL2_21D327_120-277VIES	ERL2_21D327_347-480VIES		
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_21E340_120-277VIES	ERL2_21E340_347-480VIES	ERL2_21E330_120-277VIES	ERL2_21E330_347-480VIES	ERL2_21E327_120-277VIES	ERL2_21E327_347-480VIES		
23	A3				194	196			B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_23A340_120-277VIES	ERL2_23A340_347-480VIES	ERL2_23A330_120-277VIES	ERL2_23A330_347-480VIES	ERL2_23A327_120-277VIES	ERL2_23A327_347-480VIES
	B3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_23B340_120-277VIES	ERL2_23B340_347-480VIES	ERL2_23B330_120-277VIES	ERL2_23B330_347-480VIES	ERL2_23B327_120-277VIES	ERL2_23B327_347-480VIES		
	C3	23000	22100	21400			B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_23C340_120-277VIES	ERL2_23C340_347-480VIES	ERL2_23C330_120-277VIES	ERL2_23C330_347-480VIES	ERL2_23C327_120-277VIES	ERL2_23C327_347-480VIES		
	D3						B2-U0-G4	B2-U0-G4	B2-U0-G3	ERL2_23D340_120-277VIES	ERL2_23D340_347-480VIES	ERL2_23D330_120-277VIES	ERL2_23D330_347-480VIES	ERL2_23D327_120-277VIES	ERL2_23D327_347-480VIES		
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_23E340_120-277VIES	ERL2_23E340_347-480VIES	ERL2_23E330_120-277VIES	ERL2_23E330_347-480VIES	ERL2_23E327_120-277VIES	ERL2_23E327_347-480VIES		
25	A3				214				B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_25A340_IES		ERL2_25A330_IES		ERL2_25A327_IES	
	B3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_25B340_IES		ERL2_25B330_IES		ERL2_25B327_IES				
	C3	25000	24000	23300		B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_25C340_IES		ERL2_25C330_IES		ERL2_25C327_IES				
	D3					B2-U0-G4	B2-U0-G4	B2-U0-G4	ERL2_25D340_IES		ERL2_25D330_IES		ERL2_25D327_IES				
	E3					B4-U0-G4	B4-U0-G4	B4-U0-G4	ERL2_25E340_IES		ERL2_25E330_IES		ERL2_25E327_IES				
27	A3				237				B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_27A340_IES		ERL2_27A330_IES		ERL2_27A327_IES	
	B3					B3-U0-G4	B3-U0-G4	B3-U0-G3	ERL2_27B340_IES		ERL2_27B330_IES		ERL2_27B327_IES				
	C3	27000	25900	25100		B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_27C340_IES		ERL2_27C330_IES		ERL2_27C327_IES				
	D3					B2-U0-G4	B2-U0-G4	B2-U0-G4	ERL2_27D340_IES		ERL2_27D330_IES		ERL2_27D327_IES				
	E3					B4-U0-G4	B4-U0-G4	B4-U0-G4	ERL2_27E340_IES		ERL2_27E330_IES		ERL2_27E327_IES				
28	A3				251				B3-U0-G3	B3-U0-G3	B3-U0-G3	ERL2_28A340_IES		ERL2_28A330_IES		ERL2_28A327_IES	
	B3					B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_28B340_IES		ERL2_28B330_IES		ERL2_28B327_IES				
	C3	28000	26900	26100		B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_28C340_IES		ERL2_28C330_IES		ERL2_28C327_IES				
	D3					B2-U0-G4	B2-U0-G4	B2-U0-G4	ERL2_28D340_IES		ERL2_28D330_IES		ERL2_28D327_IES				
	E3					B4-U0-G4	B4-U0-G4	B4-U0-G4	ERL2_28E340_IES		ERL2_28E330_IES		ERL2_28E327_IES				
30	A3				278				B4-U0-G4	B4-U0-G4	B3-U0-G3	ERL2_30A340_IES		ERL2_30A330_IES		ERL2_30A327_IES	
	B3					B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_30B340_IES		ERL2_30B330_IES		ERL2_30B327_IES				
	C3	30000	28800	27900		B3-U0-G4	B3-U0-G4	B3-U0-G4	ERL2_30C340_IES		ERL2_30C330_IES		ERL2_30C327_IES				
	D3					B2-U0-G4	B2-U0-G4	B2-U0-G4	ERL2_30D340_IES		ERL2_30D330_IES		ERL2_30D327_IES				
	E3					B4-U0-G4	B4-U0-G4	B4-U0-G4	ERL2_30E340_IES		ERL2_30E330_IES		ERL2_30E327_IES				

Photometrics: Evolve® LED Streetlight (ERL2)

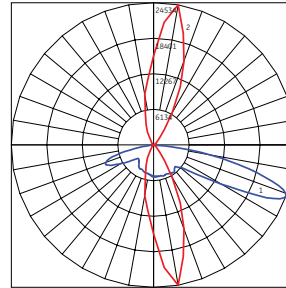
ERL2

Type II Narrow
(23A340)

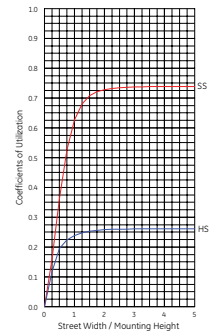
23,000 Lumens
4000K
ERL2_23A340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



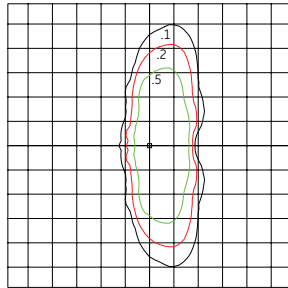
— Vertical plane through horizontal angle of Max. Cd at 80°
— Horizontal cone through vertical angle of Max. Cd at 69°



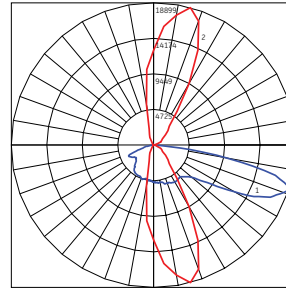
ERL2

Type II Wide
(23B340)

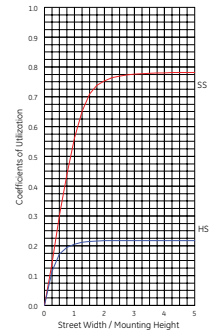
23,000 Lumens
4000K
ERL2_23B340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



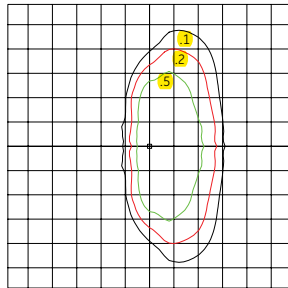
— Vertical plane through horizontal angle of Max. Cd at 75°
— Horizontal cone through vertical angle of Max. Cd at 72°



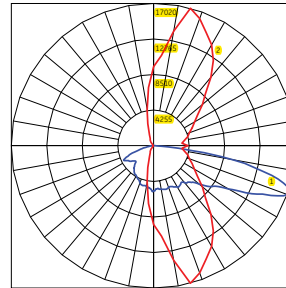
ERL2

Type III
(23C340)

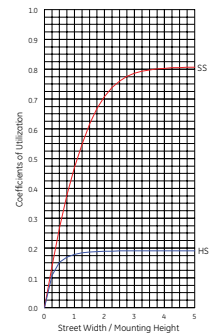
23,000 Lumens
4000K
ERL2_23C340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



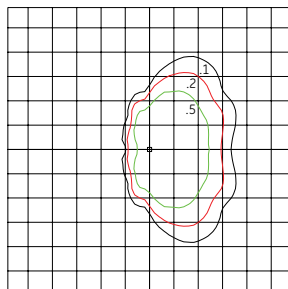
— Vertical plane through horizontal angle of Max. Cd at 75°
— Horizontal cone through vertical angle of Max. Cd at 71°



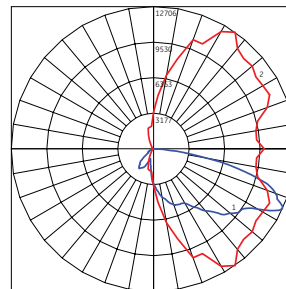
ERL2

Type IV
(23D340)

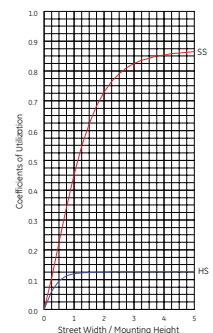
23,000 Lumens
4000K
ERL2_23D340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



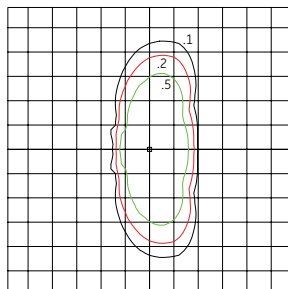
— Vertical plane through horizontal angle of Max. Cd at 55°
— Horizontal cone through vertical angle of Max. Cd at 65°



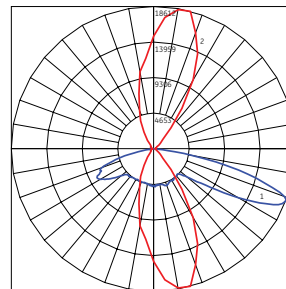
ERL2

Type II Enhanced Back Light
(23E340)

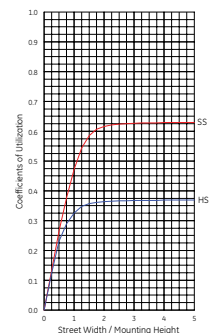
23,000 Lumens
4000K
ERL2_23E340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

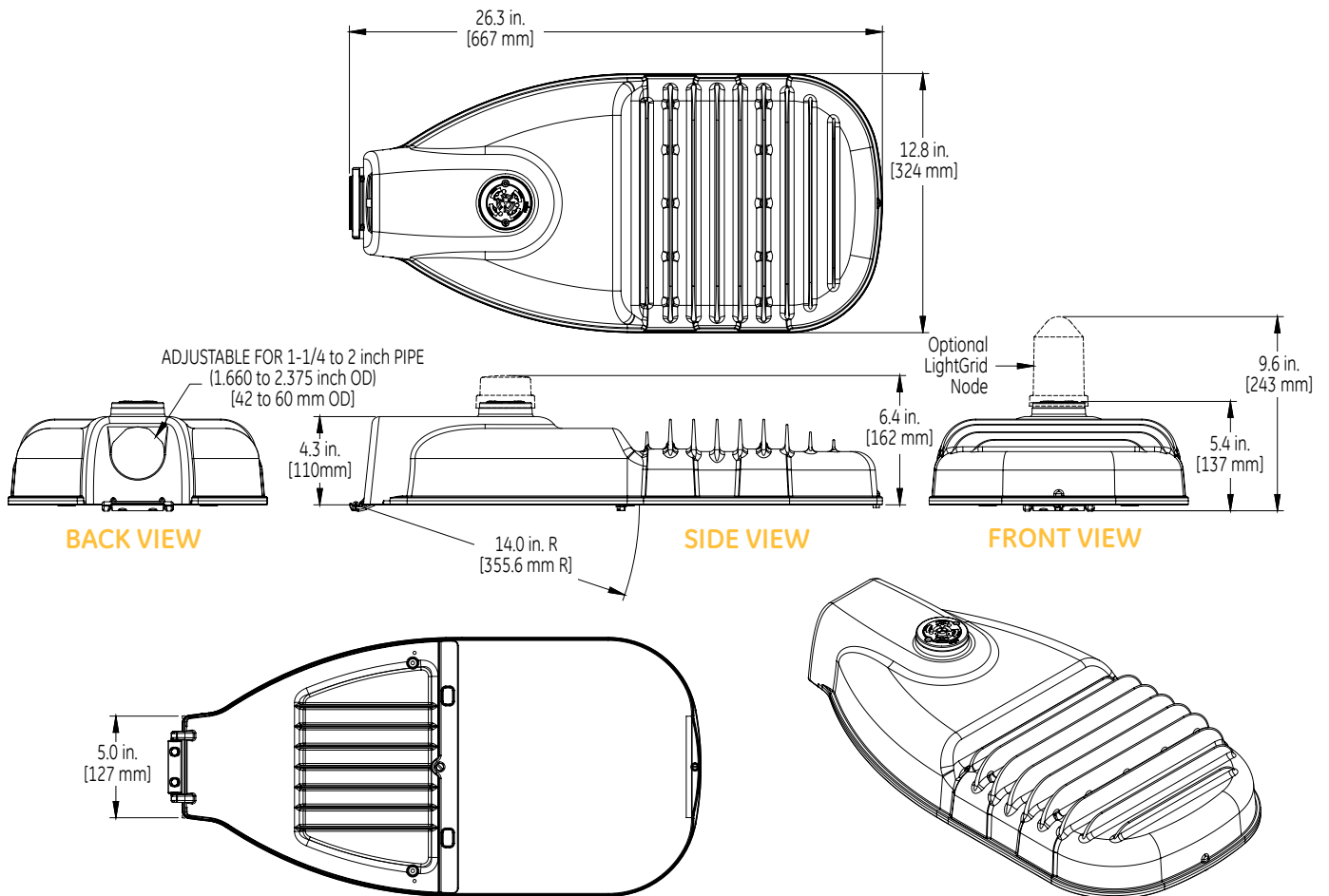


— Vertical plane through horizontal angle of Max. Cd at 75°
— Horizontal cone through vertical angle of Max. Cd at 69°



GE Evolve®
LED Roadway Lighting
ERL2

Product Dimensions:
Evolve® LED Streetlight (ERL2)



DATA

- Approximate net weight: 24.0 lbs (10.9 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA): 0.57 sq ft max (0.053 sq m)





GE Evolve[®]

LED Roadway Lighting

ERLH



current
powered by GE



GE Evolve®

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

Typical Specifications: ERL1-ERLH-ERL2

LED & Optical

- **Output Range:** 1900 – 30000 lm
- **Photometric Options:** Type II Narrow, Type II Wide, Type III, Type IV
- **System Efficacy:** 100 – 145 LPW
- **CCT:** 2700K, 3000K, 4000K; LEDs @ 70 CRI

Lumen Maintenance Tables

Projected Lxx per IES TM-21 at 25°C for reference:

ERL1 LUMEN OUTPUT CODES	LXX(10K)@HOURS		
	25,000 HR	50,000 HR	60,000 HR
02,03,04,05,06	L96	L95	L94
07,08,09	L95	L91	L89
10	L89	L80	L76

ERLH LUMEN OUTPUT CODES	LXX(10K)@HOURS		
	25,000 HR	50,000 HR	60,000 HR
10, 11	L97	L96	L96
13, 14	L95	L93	L92
15, 16	L94	L91	L91

ERL2 LUMEN OUTPUT CODES	LXX(10K)@HOURS		
	25,000 HR	50,000 HR	60,000 HR
16, 18, 19, 21, 23	L96	L94	L95
25, 27, 28	L95	L93	L92
30	L94	L91	L90

Note: Projected Lxx based on LM80 (10,000 hour testing). Accepted industry tolerances apply to initial luminous flux and lumen maintenance measurements.

Electrical

- **Input Voltage:** 120-277 volt and 347-480 volt
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)*:** >90%
- **Total Harmonic Distortion (THD)*:** <20%

*Power factor and THD tolerance exceptions: ERL1 "02" Lumen output: PF and THD within tolerances above only at 120 volt. ERL1 "03" Lumen output: @120 volt PF~0.89; @ 480 volt THD~26% ERL1 "04" Lumen output: @480 volt THD~22%

Ratings

- **Surge Protection:** per ANSI C136.2-2015: (Driver Internal):
 - 6kV/3kA "Basic: (120 Strikes)" - Standard on ERL1 (02-06)
 - 10kV/5kA "Enhanced: (40 Strikes)" - Standard on ERL1 (07 - 10), ERLH, ERL2
- **(Additional Separate Secondary SPD)**
 - 10kV/5kA "Enhanced: (40 Strikes)" - Option "R"
 - 20kV/10kA "Elevated" (40 Strikes) - Option "T"
- **Safety:** UL/cUL Listed. UL 1598 listed, suitable for wet locations (UL) (UL)
- **Environmental:** Compliant with the materials restrictions of RoHS
- **EMI:** Title 47 CFR Part 15 Class A
- **Vibration:** 3G per ANSI C136.31-2010
- LM-79 testing in accordance with IESNA Standards
- Std. Optical enclosure rated per ANSI C136.25-2009:
 - ERL1/ERLH/ERL2 = IP65, Optional: IP66

Operating Temperature:

PRODUCT ID	LUMEN OUTPUT	AMBIENT READING
ERL1	02-10	-40°C to 50°C
ERLH	10-11, 13	-40°C to 50°C
ERLH	14-16	-40°C to 45°C
ERL2	16-28	-40°C to 50°C
ERL2	30	-40°C to 45°C

Delayed start may be experienced < -35°C

Construction & Finish

- **Housing:**
 - Die Cast Enclosure
 - Casting-integral heat sink for maximum heat transfer
- **Lensing:** Impact resistant tempered glass, standard
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
 - Standard Colors: Dark Bronze, Black, & Gray
 - RAL & custom colors available
 - Optional coastal finish available.
- **Weight:** 12.4lbs (5.6kg) – 24lbs (10.9kg)

Warranty

- **System Warranty:** 5 Year Standard, 10 Year Optional

Controls

- **Dimming:**
 - Standard: 0-10V; Optional: DALI (120-277V Only)
- **Sensors:**
 - Photo electric sensors (PE) available.
- LightGrid™ compatible

Mounting

- Slipfitter with +/- 5 degree of adjustment for leveling.
- Integral die cast mounting pipe stop.
- Adjustable for 1.25 in. or 2 in. mounting pipe.

Suggested HID Replacement Lumen Levels

- ~4,000–5,000 lumens to replace 100W HPS Cobra-head
- ~7,000–8,800 lumens to replace 150W HPS Cobra-head
- ~8,500–11,500 lumens to replace 200W HPS Cobra-head
- ~11,500–14,000 lumens to replace 250W HPS Cobra-head
- ~21,000–30,000 lumens to replace 400W HPS Cobra-head

Note: Actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

PREVIOUS	DESCRIPTION	CURRENT	DESCRIPTION
A1, B1	Extra Narrow/Narrow Asymmetric	A3	Type II Narrow
C1, E1	Asymmetric Short/Medium	B3	Type II Wide
D1, G1	Asymmetric Forward/Extra Wide	C3	Type III
F1	Asymmetric Wide	D3	Type IV
		E3	Type II Enhanced Back Light

**The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is to do a lighting layout Utilizing AGI.



International Dark Sky Association listed. 2700K or 3000K must be selected to meet IDA certification and approval.

GE Evolve®

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

E **R** **L** **H** **0** **13** **C3** **40** **A** **GRAY** **IL**

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve R = Roadway L = Local H = High Output	0 = 120-277V* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 H = 347-480*#	10 11 13 14 15 16 See Table	A3 = Type II Narrow B3 = Type II Wide C3 = Type III D3 = Type IV E3 = Type II Enhanced Back Light See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	27 = 2700K<> 30 = 3000K<> 40 = 4000K <> Select 2700K or 3000K CCT for IDA approved units.	A = ANSI C136.41 7-pin D = ANSI C136.41 7-pin with Shorting Cap E = ANSI C136.41 7-pin with non-Dimming PE Control.* *PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V or 347V Discrete. NOTE: Dimming controls wired for 0-10V standard unless DALI option "U" requested.	GRAY = Gray BLCK = Black DKBZ = Dark Bronze	A = 4 Bolt Slipfitter † F = Fusing G = Internal Bubble Level I = IP66 Optical L = Tool-Less Entry R = Secondary 10kV/5kA SPD T = Secondary 20kV/10kA SPD U = DALI Programmable +^ V1 = Variable Output via Field Adjustable Module** X = Single Package # Y = Coastal Finish* XXX = Special Options † Contact manufacturer for Lead-Time. # "X" option provides single pack box per fixture. Std Packaging = 20 units per Magna pak container. * Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time. + Compatible with LightGrid 2.0 nodes. ^ Not available in 347V, 480V or 347-480V. ** Not available with DALI (U) option.

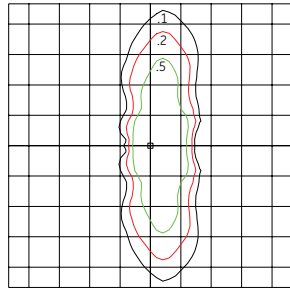
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE			BUG RATING			IES FILE NUMBER		
		4000K	3000K	2700K	120-277V	347-480V	4000K	3000K	2700K	4000K	3000K	2700K	
10	A3				82	B2-U0-G2	B2-U0-G2	B2-U0-G2	ERLH_10A340	ERLH_10A330	ERLH_10A327		
	B3					B2-U0-G2	B2-U0-G2	B2-U0-G2	ERLH_10B340	ERLH_10B330	ERLH_10B327		
	C3	10000	9600	9300		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_10C340	ERLH_10C330	ERLH_10C327		
	D3					B1-U0-G3	B1-U0-G3	B1-U0-G3	ERLH_10D340	ERLH_10D330	ERLH_10D327		
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_10E340	ERLH_10E330	ERLH_10E327		
11	A3				98	B3-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_11A340	ERLH_11A330	ERLH_11A327		
	B3					B3-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_11B340	ERLH_11B330	ERLH_11B327		
	C3	11500	11000	10700		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_11C340	ERLH_11C330	ERLH_11C327		
	D3					B1-U0-G3	B1-U0-G2	B1-U0-G2	ERLH_11D340	ERLH_11D330	ERLH_11D327		
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_11E340	ERLH_11E330	ERLH_11E327		
13	A3				111	B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_13A340	ERLH_13A330	ERLH_13A327		
	B3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_13B340	ERLH_13B330	ERLH_13B327		
	C3	13000	12500	12100		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_13C340	ERLH_13C330	ERLH_13C327		
	D3					B2-U0-G3	B2-U0-G3	B1-U0-G3	ERLH_13D340	ERLH_13D330	ERLH_13D327		
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_13E340	ERLH_13E330	ERLH_13E327		
14	A3				122	B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_14A340	ERLH_14A330	ERLH_14A327		
	B3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14B340	ERLH_14B330	ERLH_14B327		
	C3	14000	13400	13000		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14C340	ERLH_14C330	ERLH_14C327		
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14D340	ERLH_14D330	ERLH_14D327		
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_14E340	ERLH_14E330	ERLH_14E327		
15	A3				136	B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_15A340	ERLH_15A330	ERLH_15A327		
	B3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15B340	ERLH_15B330	ERLH_15B327		
	C3	15000	14400	13900		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15C340	ERLH_15C330	ERLH_15C327		
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15D340	ERLH_15D330	ERLH_15D327		
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_15E340	ERLH_15E330	ERLH_15E327		
16	A3				149	B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_16A340	ERLH_16A330	ERLH_16A327		
	B3					B3-U0-G3	B3-U0-G3	B2-U0-G3	ERLH_16B340	ERLH_16B330	ERLH_16B327		
	C3	16000	15300	14900		B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_16C340	ERLH_16C330	ERLH_16C327		
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_16D340	ERLH_16D330	ERLH_16D327		
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_16E340	ERLH_16E330	ERLH_16E327		

Photometrics: Evolve® LED Streetlight (ERLH)

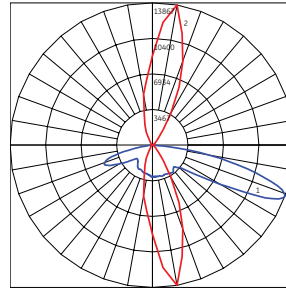
ERLH

Type II Narrow
(13A340)

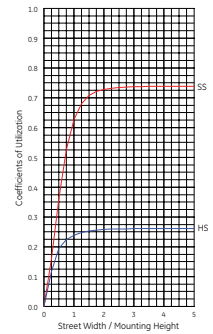
13,000 Lumens
4000K
ERLH_13A340__IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



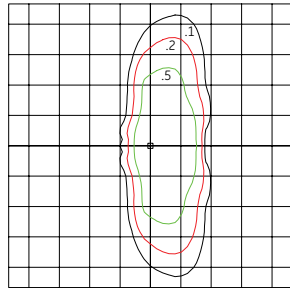
— Vertical plane through horizontal angle of Max. Cd at 80°
— Horizontal cone through vertical angle of Max. Cd at 69°



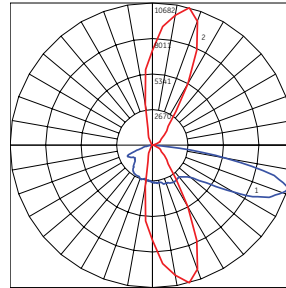
ERLH

Type II Wide
(13B340)

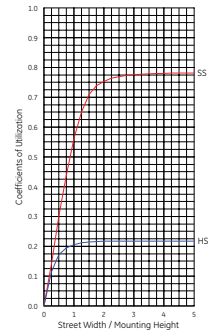
13,000 Lumens
4000K
ERLH_13B340__IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



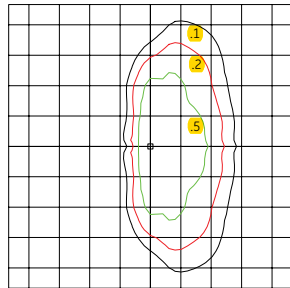
— Vertical plane through horizontal angle of Max. Cd at 75°
— Horizontal cone through vertical angle of Max. Cd at 72°



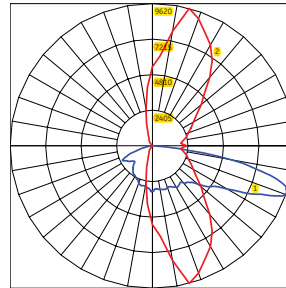
ERLH

Type III
(13C340)

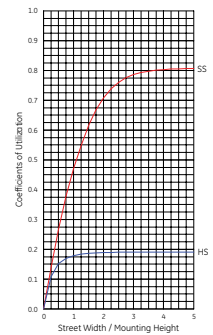
13,000 Lumens
4000K
ERLH_13C340__IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



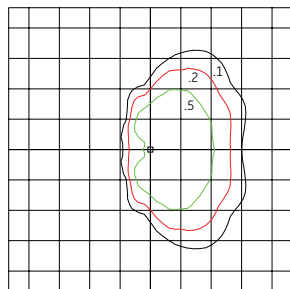
— Vertical plane through horizontal angle of Max. Cd at 75°
— Horizontal cone through vertical angle of Max. Cd at 71°



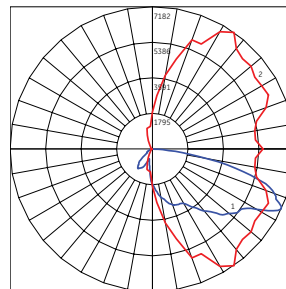
ERLH

Type IV
13D340

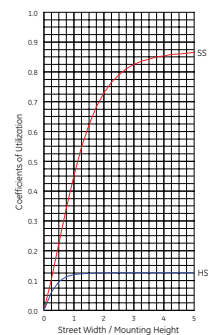
13,000 Lumens
4000K
ERLH_13D340__IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



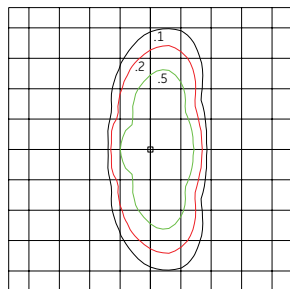
— Vertical plane through horizontal angle of Max. Cd at 55°
— Horizontal cone through vertical angle of Max. Cd at 65°



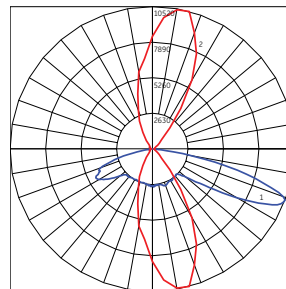
ERLH

Type II Enhanced Back Light
13E340

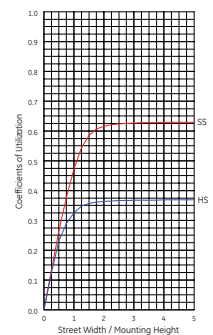
13,000 Lumens
4000K
ERLH_13E340__IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

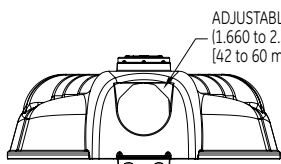
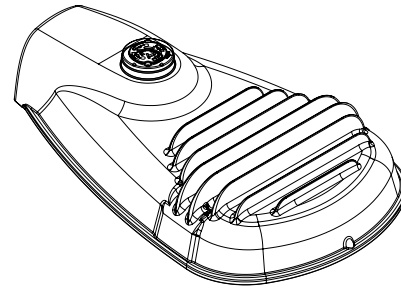
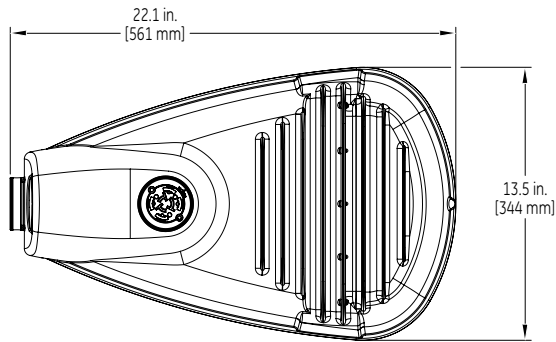


— Vertical plane through horizontal angle of Max. Cd at 75°
— Horizontal cone through vertical angle of Max. Cd at 69°



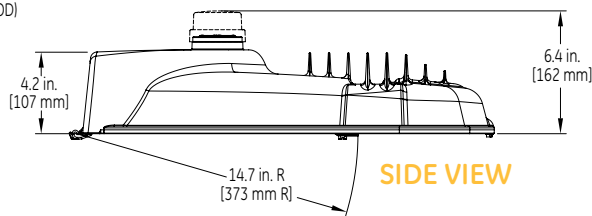
GE Evolve®
 LED Roadway Lighting
 ERLH

Product Dimensions:
 Evolve® LED Streetlight (ERLH)

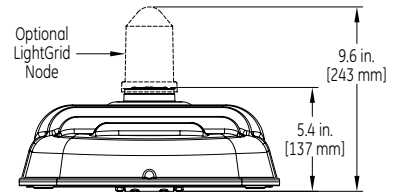


BACK VIEW

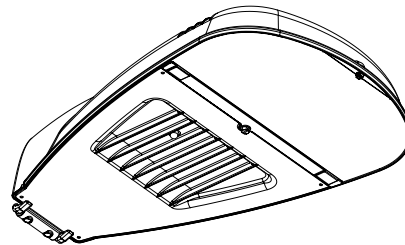
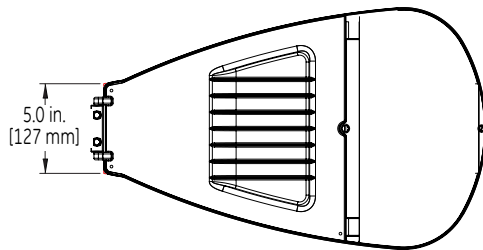
ADJUSTABLE FOR 1-1/4 to 2 inch PIPE
 (1.660 to 2.375 inch OD)
 (42 to 60 mm OD)



SIDE VIEW



FRONT VIEW



DATA	<ul style="list-style-type: none"> • Approximate net weight: 15.15 lbs (6.9 kgs) - 2 Bolt Slipfitter
	<ul style="list-style-type: none"> • Approximate net weight: 15.85 lbs (7.2 kgs) - 4 Bolt Slipfitter
	<ul style="list-style-type: none"> • Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)

Project		Catalog #		Type	
Prepared by		Notes		Date	



Streetworks

USSL LED

Area / Site Luminaire

Product Features



Product Certifications



Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

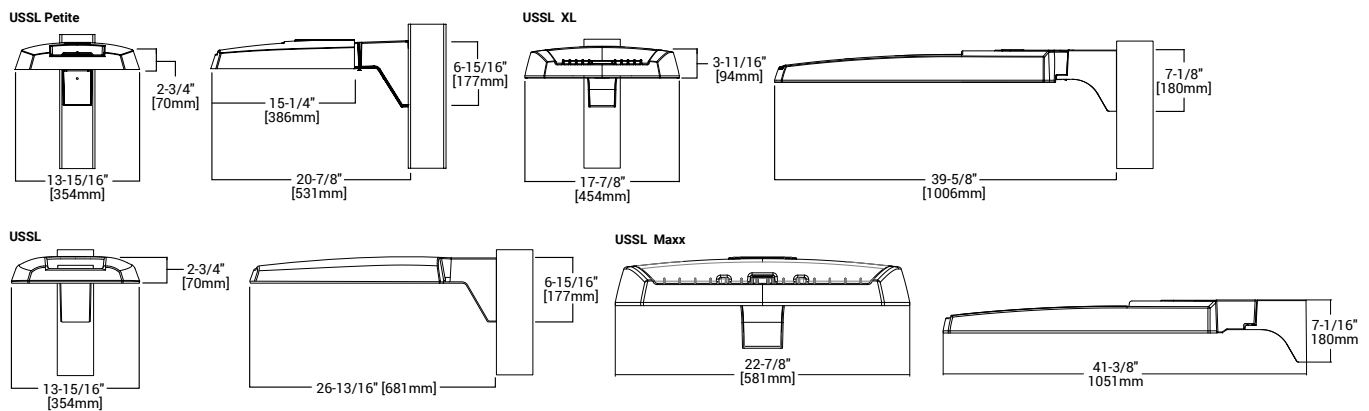
Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinx

Dimensional Details




NOTES:
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: USSL-XL-C75-D-UNV-T4-SA-BZ

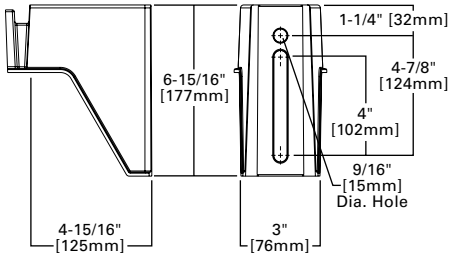
Product Family ^{1,2}	Light Engine ⁴	Driver	Voltage	Distribution	Mounting	Color
USSL-P=USSL Petite BAA-USSL-P=USSL Petite BAA Compliant ³ TAA-USSL-P=USSL Petite TAA Compliant ³	C014=(1 LED) Approx. 40% Output C016=(1 LED) Approx. 60% Output C018=(1 LED) Approx. 80% Output C01=(1 LED) Full Output	D=Dimming (0-10V)	U=Universal (120-277V) 9=347V 8=480V ⁵ DV=DuraVolt (277-480V) ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=Standard Versatile Arm MA=Mast Arm FMA= Fixed Mast Arm ²⁸ WM=Wall Mount Arm ADJA-WM=Adjustable Arm - Wall Mount ADJA=Adjustable Arm - Pole Mount ADJS=Adjustable Arm - Slipfitter, 3in vertical tenon ³⁰ SP2= Adjustable Arm - Slipfitter, 2 3/8" vertical tenon ³⁰	BZ=Bronze AP=Grey BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
USSL=USSL BAA-USSL=USSL BAA Compliant ³ TAA-USSL=USSL TAA Compliant ³	C01=(1 LED) Full Output C027=(2 LED) Approx. 70% Output C029=(2 LED) Approx. 90% Output C02=(2 LED) Full Output					
USSL-XL=USSL XL BAA-USSL-XL=USSL XL BAA Compliant ³ TAA-USSL-XL=USSL XL TAA Compliant ³	C047=(4 LED) Approx. 70% Output C049=(4 LED) Approx. 90% Output C04=(4 LED) Full Output C069=(6 LED) Approx. 90% Output C06=(6 LED) Full Output					
USSL-M=USSL Maxx BAA-USSL-M= USSL Maxx BAA Compliant ³ TAA-USSL-M=USSL Maxx TAA Compliant ³	C097=(9 LED) Approx. 65% Output C098=(9 LED) Approx. 75% Output C099=(9 LED) Approx. 90% Output C09=(9 LED) Full Output					
Options (Add as Suffix)			Accessories (Order Separately) ^{20,21}			
7030=70 CRI / 3000K CCT ⁷ 7050=70 CRI / 5000K CCT ⁷ HSS=House Side Shield ⁸ L90=Optics Rotated 90° Left ²⁸ R90=Optics Rotated 90° Right ²⁸ 10MSP=10kV MOV Surge Protective Device 10K=10kV UL 1449 Fused Surge Protective Device 20MSP=20kV MOV Surge Protective Device 20K=Series 20kV UL 1449 Surge Protective Device HA=50°C High Ambient Temperature ⁹ TH=Tool-less Door Hardware PER=NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ 4=NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ 4N7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ MS/DIM-L08= Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting Height ^{12,13,28} MS/DIM-L20=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting ^{12,13} MS/DIM-L40=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting ^{12,13} SPB1=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting Height ^{12,14,22,28} SPB2=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting Height ^{12,14,22} SPB4=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting ^{12,14} ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle ¹² ZD=SR Driver-enabled 4-PIN Twistlock Receptacle ¹² ZW-SWPD4XX=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12,15,16,17,22,28} ZW-SWPD5XX=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12,15,16,17} ZD-SWPD4XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12,15,16,17,22,28} ZD-SWPD5XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12,15,16,17} (See Table Below)=LumenSafe Integrated Network Security Camera ^{18,19} DXXXXX=Department of Transportation - Customer specific details ²⁸ UXXXXX=Utility - Customer specific details ²⁸			PRVSA-XX=Standard Arm Mounting Kit ²² PRVMA-XX=Mast Arm Mounting Kit ²² PRVWM-XX=Wall Mount Kit ²² PRV-ADJA-XX=Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX=Standard Arm Mounting Kit ²⁹ PRVXLSA-XX= Mast Arm Mounting Kit ²⁹ PRVXLWM-XX=Wall Mount Kit ²⁹ PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁹ PRV-XL-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁹ PRV-XL-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁹ PRV-M-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁸ PRV-M-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁸ PRV-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁸ 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 SRA238=Tenon Adapter from 2-3/8" to 3" PRV/COB-FDV=Full Drop Visor ²³ PRVXL/COB-FDV=Full Drop Visor ¹⁸ HS/VERD=House Side Shield Kit ^{8,24} VGS-F/B=Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE=Vertical Glare Shield Kit, Side ²⁴ 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 FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) ²⁷ SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{15,16,17,26} SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{15,16,17,26}			
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WP513001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC-PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Standard 4000K CCT and 70CRI. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 7. Use dedicated IES files on product website for non-standard CCTs. 8. Option will come factory-installed. House Side Shield not suitable with T5 distribution. Not available with USSL-C60 lumen package. 9. Not available with USSL-C60 lumen package. Not available with USSL-P-C25 lumen package. 10. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (4 or 4N7) or another controls system (MS, SPB, ZD, or ZW). Option not available with DuraVolt (DV) voltage option. 12. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. 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. 17. Replace XX with sensor color (WH, BZ, or BK). 18. Only available in USSL-XL configurations C75, C100, C125, C150, or C175. 19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with USSL-XL or USSL-M configurations. 23. Only for use with USSL. Not applicable to USSL-M, USSL-XL, or USSL-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9). 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 4-PIN twistlock receptacle (ZD or ZW) option. 27. Requires 7-PIN NEMA twistlock photocontrol receptacle (4N7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZD, ZW or LWR). Operates on 120-347V input voltages. 28. Only available for USSL-M configurations. 29. Only for use with USSL-XL and USSL-M configurations. 30. Adjustable Arms QM for PRV-P, PRV, PRV-XL; Fixed for PRV-M						

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

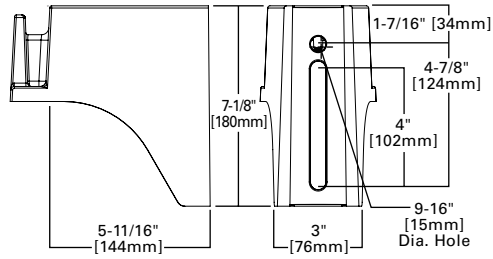
Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card E=Ethernet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

Mounting Details

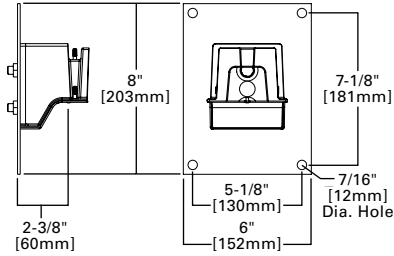
SA=QM Pole Mount Arm (USSL & USSL-P)



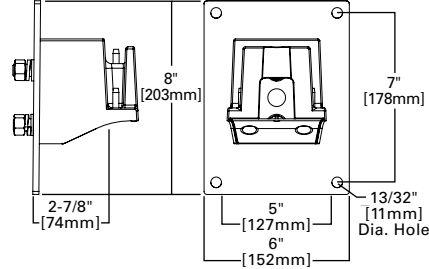
SA=QM Pole Mount Arm (USSL-XL)



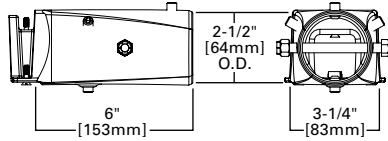
WM=QM Wall Mount Arm (USSL & USSL-P)



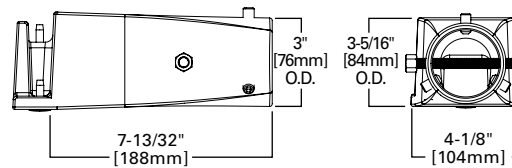
WM=QM Wall Mount Arm (USSL-XL)



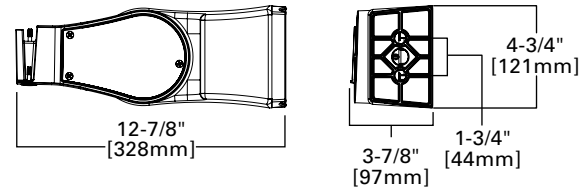
MA=QM Mast Arm (USSL & USSL-P)



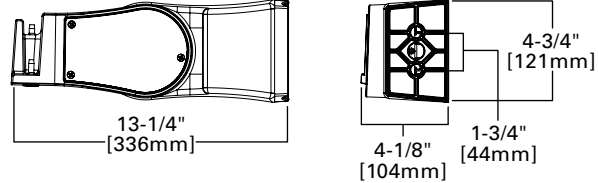
MA=QM Mast Arm (USSL-XL)



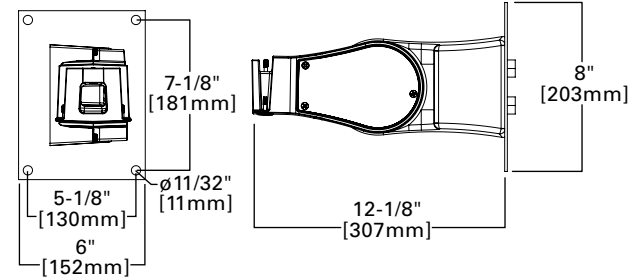
ADJA=Adjustable Arm Pole Mount (USSL & USSL-P)



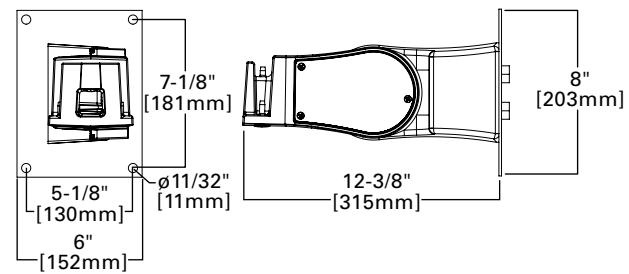
ADJA=Adjustable Arm Pole Mount (USSL-XL)



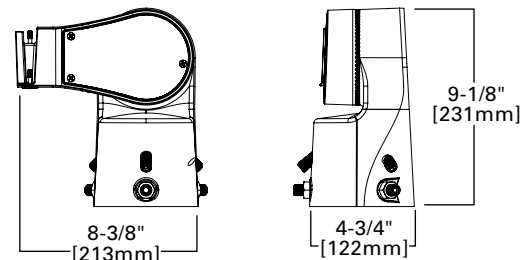
ADJA-WM=Adjustable Arm Wall Mount (USSL & USSL-P)



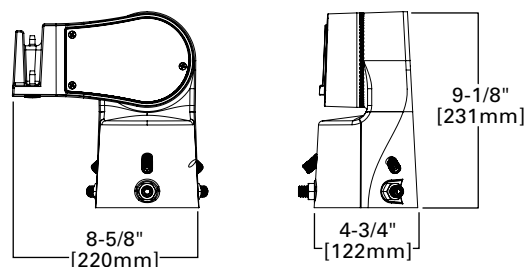
ADJA-WM=Adjustable Arm Wall Mount (USSL-XL)



ADJS=Adjustable Slipfitter 3 (USSL & USSL-P)

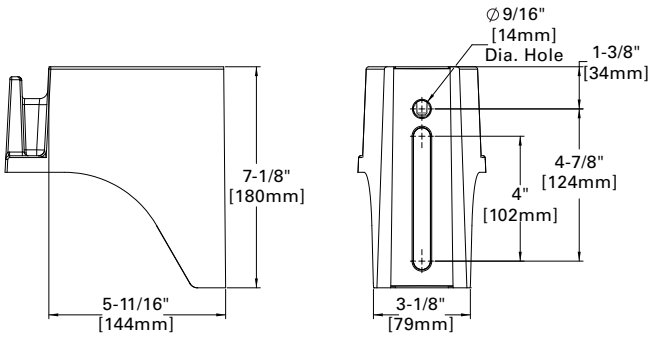


ADJS=Adjustable Slipfitter 3 (USSL-XL)

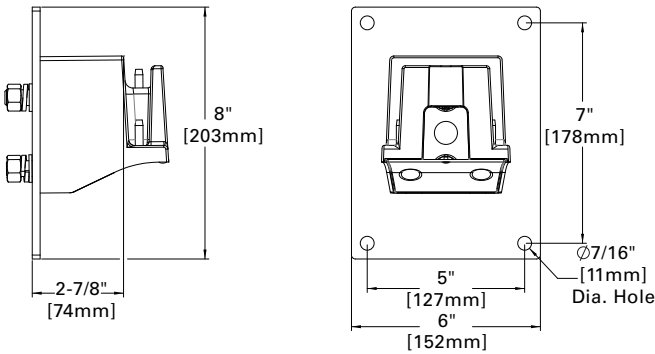


Mounting Details

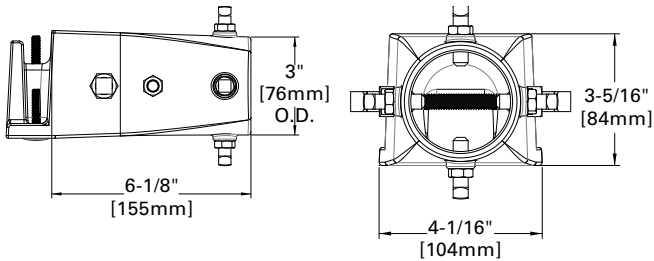
SA=QM Pole Mount Arm (USSL-M)



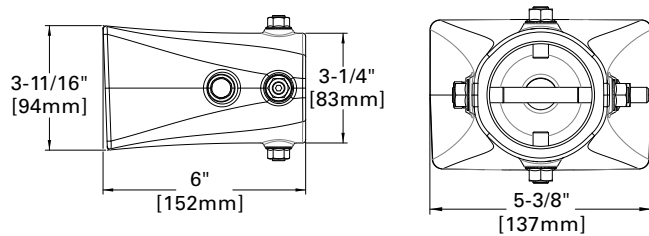
WM=QM Wall Mount Arm (USSL-M)



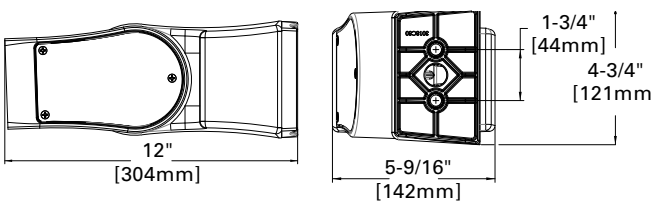
MA=QM Mast Arm (USSL-M)



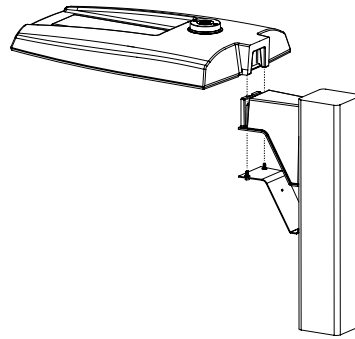
FMA=Fixed Mast Arm (USSL-M)



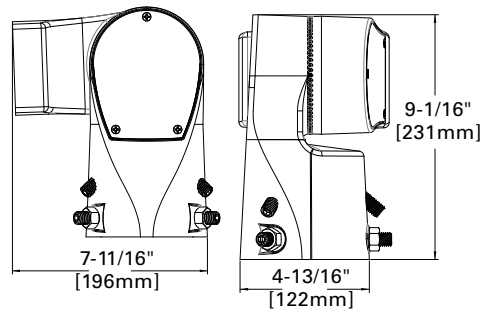
DM=Direct Pole Mount Arm (USSL-M)



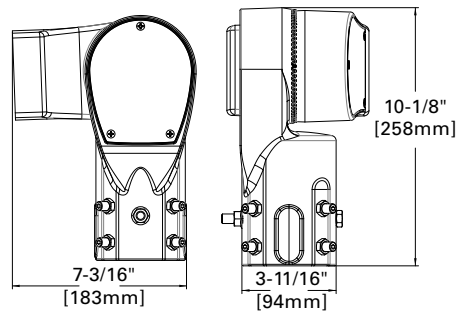
Versatile Mount System



ADJS=Adjustable Slipfitter (USSL-M)



SP2=Adjustable Slipfitter 2-3/8\" (USSL-M)



Mounting Details

Mounting Configurations and EPAs

NOTE: For 2 USSL's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 USSL-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications

Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
USSL Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
USSL	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
USSL XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
USSL Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

USSL-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800
Nominal Lumens)

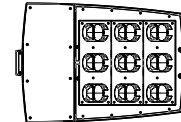
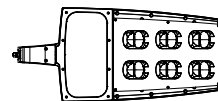
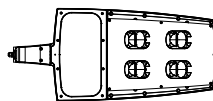
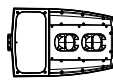
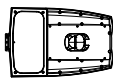
USSL-C15
(7,100 Nominal Lumens)

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

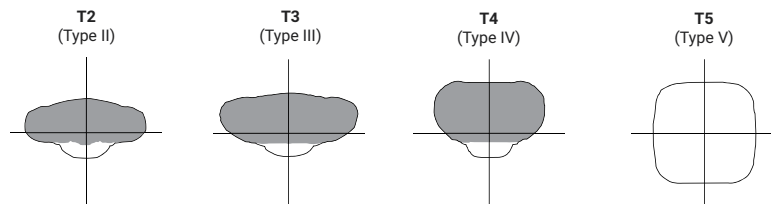
USSL-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)

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

USSL-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)



Optical Distributions



■ = Distribution with House Side Shield (HSS)
□ = Optical Distribution

Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Three-position terminal block standard

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- USSL and USSL Petite: 3G vibration rated
- USSL XL Mast Arm: 3G vibration rated
- USSL XL Standard Arm: 1.5G vibration rated
- Adjustable Arms: 1.5G vibration rated

Typical Applications

- Parking Lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- USSL Petite: 18 lbs. (7.94 kgs.)
- USSL: 20 lbs. (9.09 kgs.)
- USSL XL: 45 lbs. (20.41 kgs.)
- USSL Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy and Performance Data

[View USSL-P IES files](#)

[View USSL IES files](#)

[View USSL-XL IES files](#)

Power and Lumens

Product Family	USSL Petite				USSL				USSL XL				USSL Maxx					
Light Engine	C014	C016	C018	C01	C01	C027	C029	C02	C047	C049	C04	C069	C06	C097	C098	C099	C09	
Power (Watts)	35	49	73	94	52	96	131	153	176	217	264	285	346	346.00	418.10	486.60	587.50	
Input Current @ 120V (A)	0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90	
Input Current @ 277V (A)	0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06	
Input Current @ 347V (A)	0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70	
Input Current @ 480V (A)	0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21	
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
USSL and USSL Petite at 25°C	91.30%	> 194,000
USSL and USSL Petite at 40°C	87.59%	> 134,000
USSL XL at 25°C	91.40%	> 204,000
USSL XL at 40°C	89.41%	> 158,000
USSL Maxx at 25°C	91.40%	> 204,000
USSL Maxx at 40°C	89.41%	> 158,000

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

Lumen Multiplier

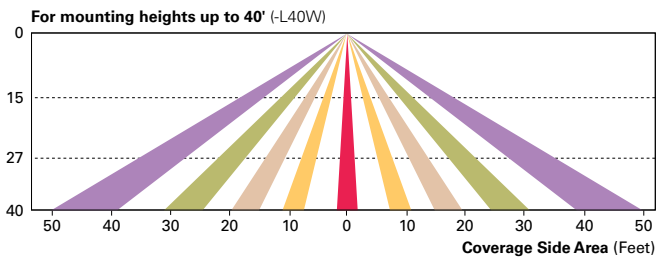
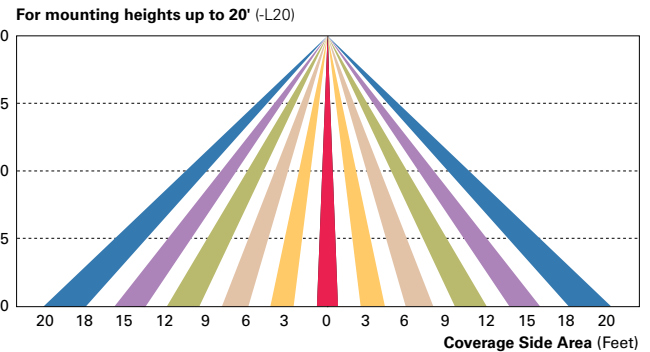
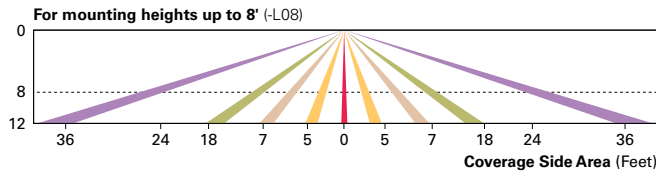
Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (4 and 4N7) 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 4N7 receptacle.

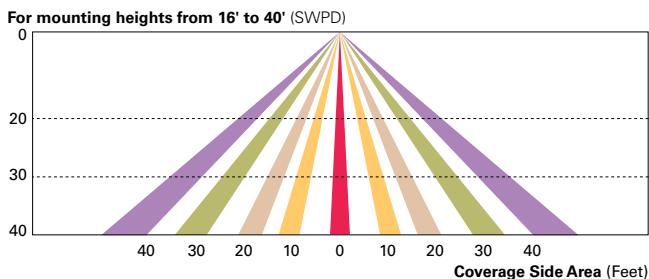
Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation (MS-LXX) is selected, the luminaire will turn off after five minutes of no activity. These occupancy sensors include an integral photocell for “dusk-to-dawn” control or “daylight harvesting.” Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



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. 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 astronomic 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 sensing 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 (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for “dusk-to-dawn” control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



LumenSafe (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.

Project		Catalog #		Type	
Prepared by		Notes		Date	



Streetworks

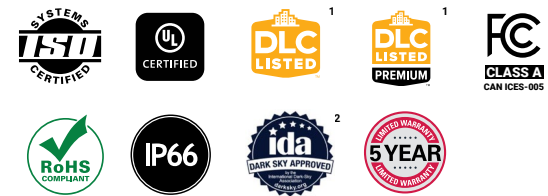
USSSL LED

Area / Site Luminaire

Product Features



Product Certifications



Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

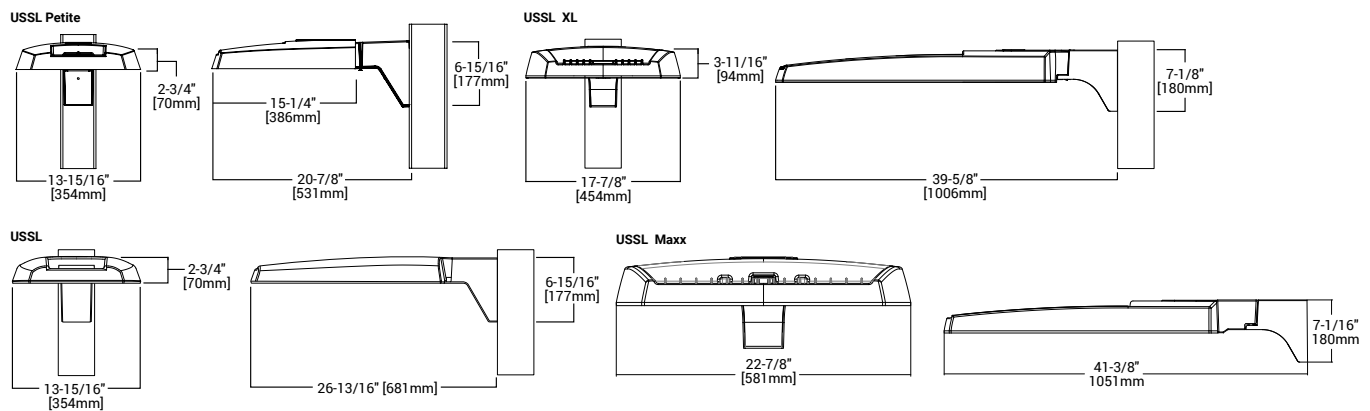
Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinx

Dimensional Details



NOTES:
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information


SAMPLE NUMBER: USSL-XL-C75-D-UNV-T4-SA-BZ

Product Family ^{1,2}	Light Engine ⁴	Driver	Voltage	Distribution	Mounting	Color
USSL-P=USSL Petite BAA-USSL-P=USSL Petite BAA Compliant ³ TAA-USSL-P=USSL Petite TAA Compliant ³	C014=(1 LED) Approx. 40% Output C016=(1 LED) Approx. 60% Output C018=(1 LED) Approx. 80% Output C01=(1 LED) Full Output	D=Dimming (0-10V)	U=Universal (120-277V) 9=347V 8=480V ⁵ H= 347-480V D=DuraVolt (277-480V) ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=Standard Versatile Arm MA=Mast Arm FMA= Fixed Mast Arm ²⁸ WM=Wall Mount Arm ADJA-WM=Adjustable Arm - Wall Mount ADJA=Adjustable Arm - Pole Mount ADJS=Adjustable Arm - Slipfitter, 3in vertical tenon ³⁰ SP2= Adjustable Arm - Slipfitter, 2 3/8" vertical tenon ^{28,30}	BZ=Bronze AP=Grey BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
USSL=USSL BAA-USSL=USSL BAA Compliant ³ TAA-USSL=USSL TAA Compliant ³	C01=(1 LED) Full Output C027=(2 LED) Approx. 70% Output C029=(2 LED) Approx. 90% Output C02=(2 LED) Full Output					
USSL-XL=USSL XL BAA-USSL-XL=USSL XL BAA Compliant ³ TAA-USSL-XL=USSL XL TAA Compliant ³	C047=(4 LED) Approx. 70% Output C049=(4 LED) Approx. 90% Output C04=(4 LED) Full Output C069=(6 LED) Approx. 90% Output C06=(6 LED) Full Output					
USSL-M=USSL Maxx BAA-USSL-M= USSL Maxx BAA Compliant ³ TAA-USSL-M=USSL Maxx TAA Compliant ³	C097=(9 LED) Approx. 65% Output C098=(9 LED) Approx. 75% Output C099=(9 LED) Approx. 90% Output C09=(9 LED) Full Output					

Options (Add as Suffix)	Accessories (Order Separately) ^{20,21}
<p>7030=70 CRI / 3000K CCT ⁷ 7050=70 CRI / 5000K CCT ⁷ CC=Coastal Construction finish ³¹ HSS=House Side Shield ⁸ L90=Optics Rotated 90° Left ²⁸ R90=Optics Rotated 90° Right ²⁸ 10MSP=10kV MOV Surge Protective Device 10K=10kV UL 1449 Fused Surge Protective Device 20MSP=20kV MOV Surge Protective Device 20K=Series 20kV UL 1449 Surge Protective Device HA=50°C High Ambient Temperature ⁹ TH=Tool-less Door Hardware PER=NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle¹¹ 4=NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ 4N7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ MS/DIM-L08= Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting Height ^{12,13,22} MS/DIM-L20=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting ^{12,13} MS/DIM-L40=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting ^{12,13} SPB1=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting Height ^{12,14,22} SPB2=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting Height ^{12,14,28,29} SPB4=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting ^{12,14,28} ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle ¹² ZD=SR Driver-enabled 4-PIN Twistlock Receptacle ¹² ZW-SWPD4XX=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12,15,16,17,22} ZW-SWPD5XX=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12,15,16,17,28,29} ZD-SWPD4XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12,15,16,17,22} ZD-SWPD5XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12,15,16,17,28,29} (See Table Below)-LumenSafe Integrated Network Security Camera ^{18,19} DXXXXX=Department of Transportation - Customer specific details ²⁸ UXXXXX=Utility - Customer specific details ²⁹</p>	<p>USSLSA-XX=Standard Arm Mounting Kit ²² USSLMA-XX=Mast Arm Mounting Kit ²² USSLWM-XX=Wall Mount Kit ²² USSL-ADJA-XX=Adjustable Arm - Pole Mount Kit ²² USSL-ADJS-XX=Adjustable Arm - Slipfitter Kit ²² USSL-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²² USSLXLSA-XX=Standard Arm Mounting Kit ²⁹ USSLXLMA-XX= Mast Arm Mounting Kit ²⁹ USSLXLWM-XX=Wall Mount Kit ²⁹ USSL-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁹ USSL-XL-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁹ USSL-XL-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁹ USSL-M-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁸ USSL-M-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁸ USSL-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁸ 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 SRA238=Tenon Adapter from 3" to 2-3/8" USSL/COB-FDV=Full Drop Visor ²³ USSLXL/COB-FDV=Full Drop Visor ¹⁸ HS/VERD=House Side Shield Kit ^{8,24} VGS-F/B=Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE=Vertical Glare Shield Kit, Side ²⁴ 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 FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) ²⁷ SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{15,16,17,22,26} SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{15,16,17,28,29}</p>

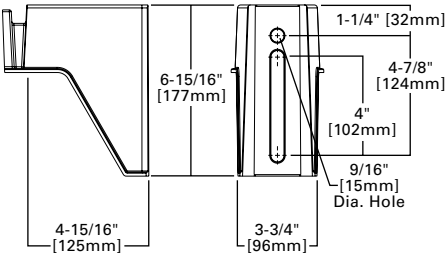
- NOTES:**
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 - Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WP513001EN for additional support information.
 - Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC.PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
 - Standard 4000K CCT and 70CRI.
 - 480V not to be used with ungrounded or impedance grounded systems.
 - DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
 - Use dedicated IES files on product website for non-standard CCTs.
 - Option will come factory-installed. House Side Shield not suitable with T5 distribution. Not available with USSL-C60 lumen package.
 - Not available with USSL-C60 lumen package. Not available with USSL-P-C25 lumen package.
 - Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
 - If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used.
 - Controls system is not available in combination with a photocontrol receptacle (4 or 4N7) or another controls system (MS, SPB, ZD, or ZW). Option not available with DuraVolt (DV) voltage option.
 - Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
 - Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details.
 - Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
 - 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.
 - Replace XX with sensor color (WH, BZ, or BK).
 - Only available in USSL-XL configurations C75, C100, C125, C150, or C175.
 - Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
 - Replace XX with paint color.
 - For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
 - Not for use with USSL-XL or USSL-M configurations.
 - Only for use with USSL. Not applicable to USSL-M, USSL-XL, or USSL-P.
 - Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9).
 - This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
 - Requires 4-PIN twistlock receptacle (ZD or ZW) option.
 - Requires 7-PIN NEMA twistlock photocontrol receptacle (4N7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZD, ZW or LWR). Operates on 120-347V input voltages.
 - Only available for USSL-M configurations.
 - Only for use with USSL-XL.
 - Fixed for USSL-M

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

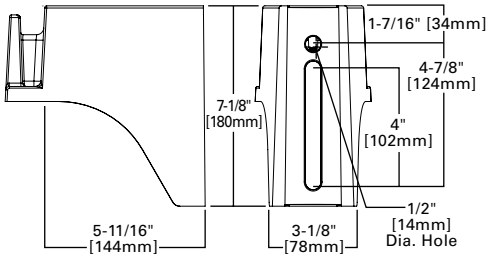
Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card E=Ethernet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

Mounting Details

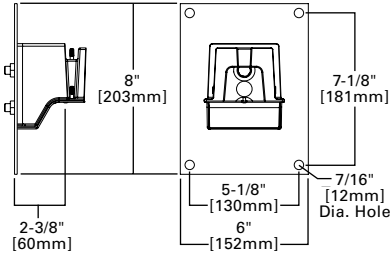
SA=QM Pole Mount Arm (USSL & USSL-P)



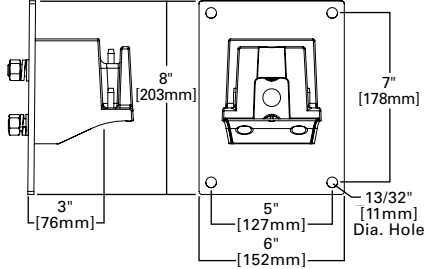
SA=QM Pole Mount Arm (USSL-XL)



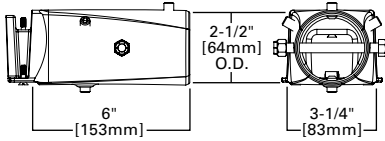
WM=QM Wall Mount Arm (USSL & USSL-P)



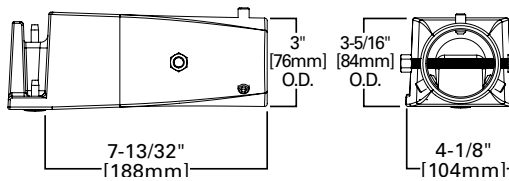
WM=QM Wall Mount Arm (USSL-XL)



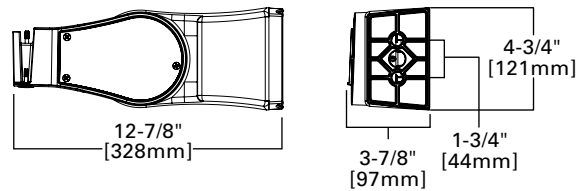
MA=QM Mast Arm (USSL & USSL-P)



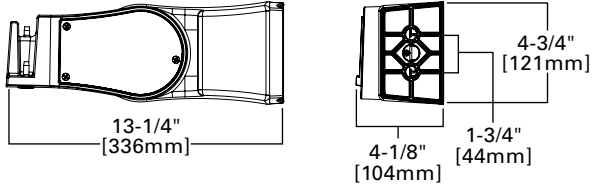
MA=QM Mast Arm (USSL-XL)



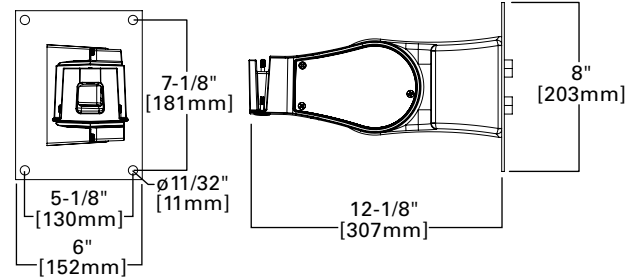
ADJA=Adjustable Arm Pole Mount (USSL & USSL-P)



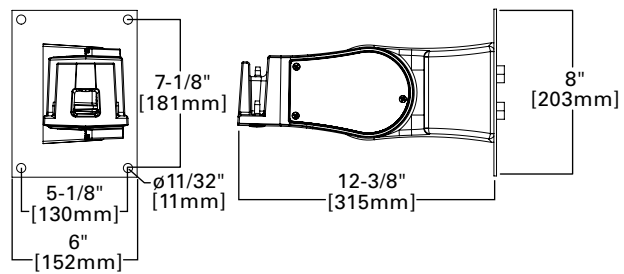
ADJA=Adjustable Arm Pole Mount (USSL-XL)



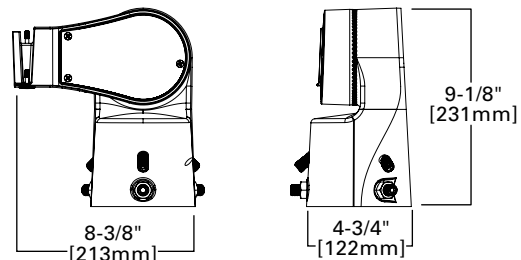
ADJA-WM=Adjustable Arm Wall Mount (USSL & USSL-P)



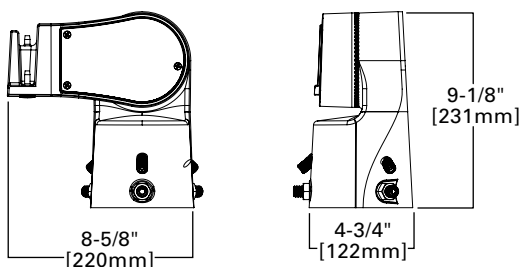
ADJA-WM=Adjustable Arm Wall Mount (USSL-XL)



ADJS=Adjustable Slipfitter 3 (USSL & USSL-P)

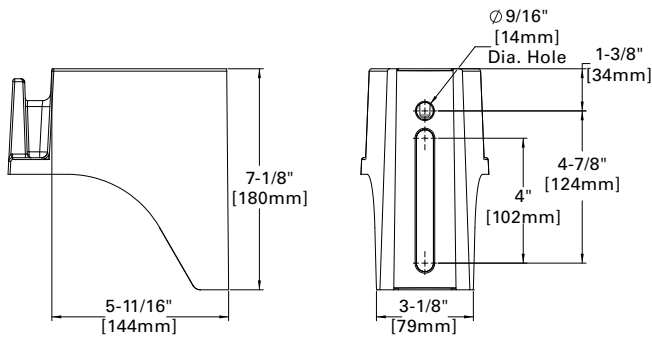


ADJS=Adjustable Slipfitter 3 (USSL-XL)

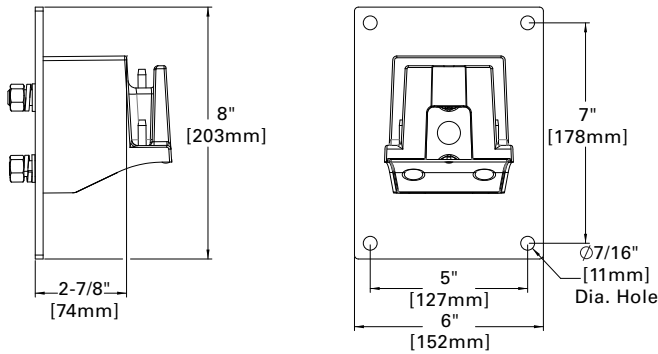


Mounting Details

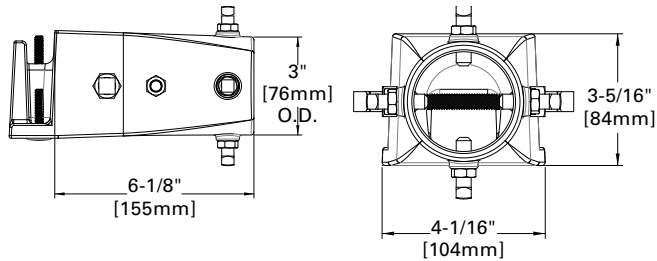
SA=QM Pole Mount Arm (USSL-M)



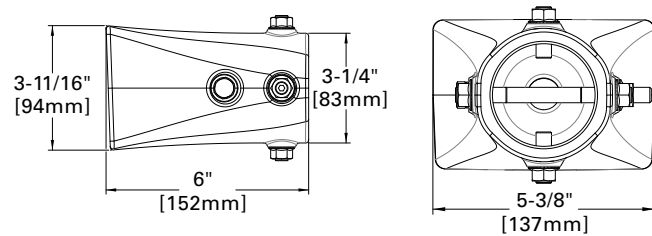
WM=QM Wall Mount Arm (USSL-M)



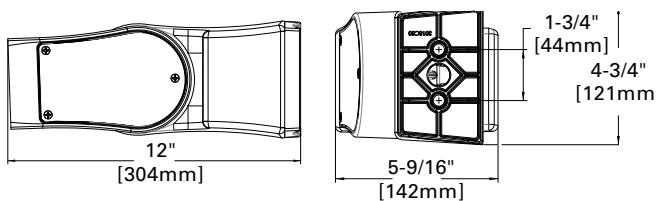
MA=QM Mast Arm (USSL-M)



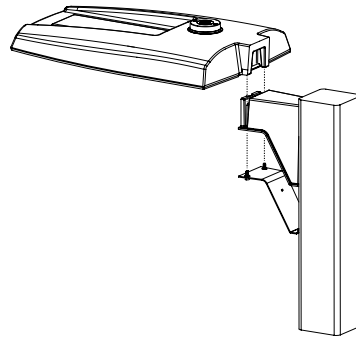
FMA=Fixed Mast Arm (USSL-M)



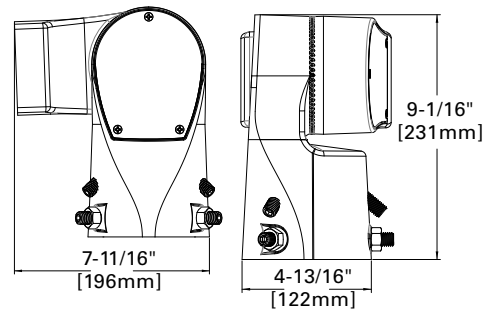
DM=Direct Pole Mount Arm (USSL-M)



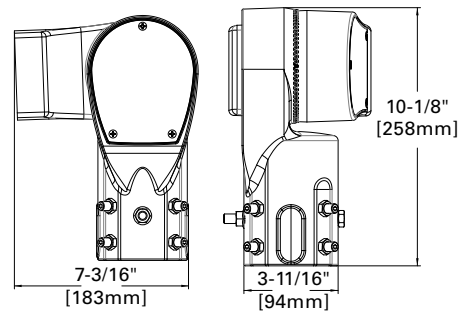
Versatile Mount System



ADJS=Adjustable Slipfitter (USSL-M)



SP2=Adjustable Slipfitter 2-3/8" (USSL-M)



Mounting Details

Mounting Configurations and EPAs

NOTE: For 2 USSL's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 USSL-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications

Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
USSL Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
USSL	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
USSL XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
USSL Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

USSL-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800
Nominal Lumens)

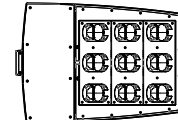
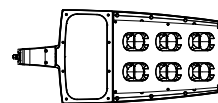
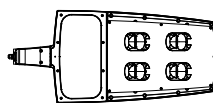
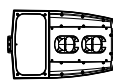
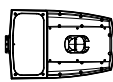
USSL-C15
(7,100 Nominal Lumens)

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

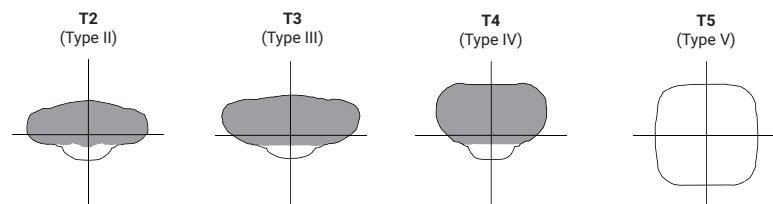
USSL-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)

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

USSL-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)



Optical Distributions



■ = Distribution with House Side Shield (HSS)
□ = Optical Distribution

Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Three-position terminal block standard

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- USSL and USSL Petite: 3G vibration rated
- USSL XL Mast Arm: 3G vibration rated
- USSL XL Standard Arm: 1.5G vibration rated
- Adjustable Arms: 1.5G vibration rated

Typical Applications

- Parking Lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- USSL Petite: 18 lbs. (7.94 kgs.)
- USSL: 20 lbs. (9.09 kgs.)
- USSL XL: 45 lbs. (20.41 kgs.)
- USSL Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy and Performance Data

[View USSL-P IES files](#)
[View USSL IES files](#)
[View USSL-XL IES files](#)

Power and Lumens

Product Family	USSL Petite				USSL				USSL XL				USSL Maxx					
Light Engine	C014	C016	C018	C01	C01	C027	C029	C02	C047	C049	C04	C069	C06	C097	C098	C099	C09	
Power (Watts)	35	49	73	94	52	96	131	153	176	217	264	285	346	346.00	418.10	486.60	587.50	
Input Current @ 120V (A)	0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90	
Input Current @ 277V (A)	0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06	
Input Current @ 347V (A)	0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70	
Input Current @ 480V (A)	0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21	
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
USSL and USSL Petite at 25°C	91.30%	> 194,000
USSL and USSL Petite at 40°C	87.59%	> 134,000
USSL XL at 25°C	91.40%	> 204,000
USSL XL at 40°C	89.41%	> 158,000
USSL Maxx at 25°C	91.40%	> 204,000
USSL Maxx at 40°C	89.41%	> 158,000

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

Lumen Multiplier

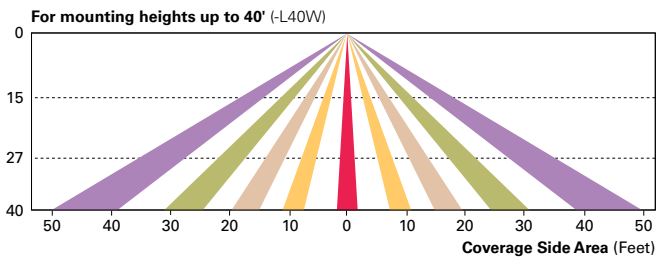
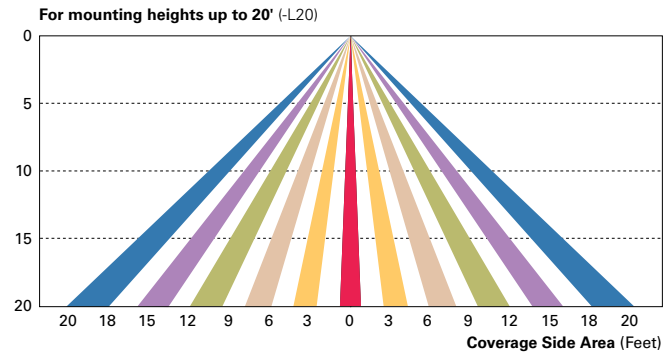
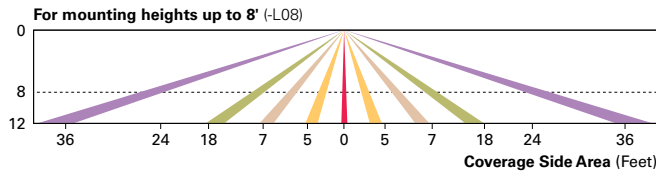
Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) 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 PR7 receptacle.

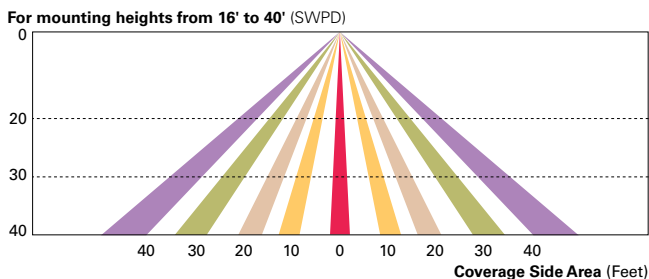
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for “dusk-to-dawn” control or “daylight harvesting.” Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



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. 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 sensing 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 (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for “dusk-to-dawn” control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

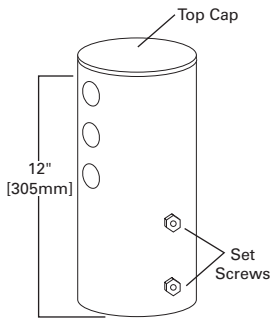


LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional 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.

Lighting solutions

Tenons and adapters

TYPE "M" DRILLING



DIRECT MOUNT TENON ADAPTER (2" or 3")

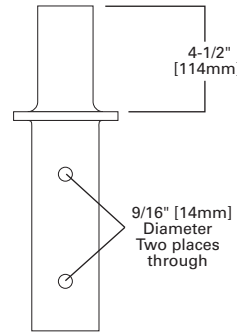
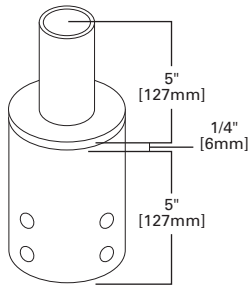
Tenon Size (Inches)	Fixture Configuration	Type "M" Drill Pattern	Type "E" Drill Pattern	Type "C" Drill Pattern	Type "A" Drill Pattern
2-3/8" O.D.	1 Fixture	MA1017	MA1101	VA1033	VA1019
2-3/8" O.D.	2 Fixtures at 180°	MA1018	MA1102	VA1034	VA1020
2-3/8" O.D.	3 Fixtures at 120°	MA1019	MA1103	VA1035	VA1021
2-3/8" O.D.	4 Fixtures at 90°	MA1045	MA1104	VA1036	VA1022
2-3/8" O.D.	2 Fixtures at 90°	MA1048	MA1105	VA1037	VA1023
2-3/8" O.D.	3 Fixtures at 90°	MA1049	MA1106	VA1038	VA1024
2-3/8" O.D.	2 Fixtures at 120°	MA1107	MA1116	VA1039	VA1025
3" O.D.	1 Fixture	MA1020			
3" O.D.	2 Fixtures at 180°	MA1034			
3" O.D.	4 Fixtures at 90°	MA1043			
3-1/2" O.D.	1 Fixture	MA1010	MA1108	VA1040	VA1026
3-1/2" O.D.	2 Fixtures at 180°	MA1011	MA1109	VA1041	VA1027
3-1/2" O.D.	3 Fixtures at 120°	MA1012	MA1110	VA1042	VA1028
3-1/2" O.D.	4 Fixtures at 90°	MA1013	MA1111	VA1043	VA1029
3-1/2" O.D.	2 Fixtures at 90°	MA1014	MA1112	VA1044	VA1030
3-1/2" O.D.	3 Fixtures at 90°	MA1016	MA1113	VA1045	VA1031
3-1/2" O.D.	2 Fixtures at 120°	MA1015	MA1114	VA1046	VA1032

NOTES: Fitters for other tenon sizes available. Consult your lighting representative at Eaton or visit www.eaton.com/lighting. Tenon adapter for thru-bolt mounted luminaires.

TENON REDUCER

Catalog Number	Size (Inches)
TR30-2	3" O.D. to 2-3/8" O.D.
TR35-2	3-1/2" O.D. to 2-3/8" O.D.
TR35-3	3-1/2" O.D. to 3" O.D.
TR40-2	4" O.D. to 2-3/8" O.D.
TR40-3	4" O.D. to 3" O.D.
TR40-3.5	4" O.D. to 3-1/2" O.D.

NOTES: Standard adapter is bronze painted steel. Mounting hardware included.

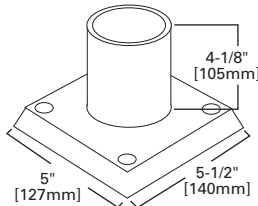


REMOVABLE TENON FOR SQUARE STEEL POLE

Catalog Number	Pole Size (Inches)	Tenon Size (Inches)
TASQ-4-2	4"	2-3/8" O.D.
TASQ-4-3	4"	3" O.D.
TASQ-5-2	5"	2-3/8" O.D.
TASQ-5-3	5"	3" O.D.
TASQ-6-2	6"	2-3/8" O.D.
TASQ-6-3	6"	3" O.D.
TASQ-4-3.5	4"	3-1/2" O.D.
TASQ-5-3.5	5"	3-1/2" O.D.
TASQ-6-3.5	6"	3-1/2" O.D.

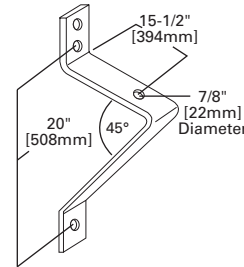
NOTES: Includes thru bolts. Fits internally. Standard bronze painted.

SURFACE MOUNT BRACKETS



PARAPET BRACKET

Catalog Number	Tenon Size (Inches)	Fixture Configuration
FA63	3" O.D.	Single Parapet Mount



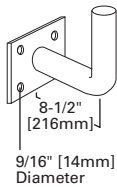
STEEL ANGLE BRACKET

Catalog Number

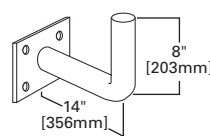
SAB

NOTES: Standard finish is hot dip galvanize. Mounting hardware not included.

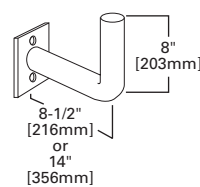
RAB



RABV



RABX / RABX14



RIGHT ANGLE BRACKETS

Catalog Number ¹	Tenon Size (Inches)	Bracket Length (Inches)
RAB	2-3/8" O.D.	8"
RAB-V	2-3/8" O.D.	14"
RABX ²	2-3/8" O.D.	8"
RABX14 ²	2-3/8" O.D.	14"

NOTES: 1 Standard finish is primed. Add suffix "G" for hot dip galvanize. Mounting hardware not included. 2 Steel pole mounting.

WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit www.eaton.com/lighting for available options, accessories and ordering information

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

© 2017 Eaton
All Rights Reserved
Printed in USA
Publication No. TD513019EN
May 9, 2017 3:49 PM

Eaton is a registered trademark.
All other trademarks are property of their respective owners.
Product availability, specifications, and compliances are subject to change without notice.



Powering Business Worldwide

SPECIFICATIONS

OUTDOOR

HOUSING

- Heavy duty die cast aluminum housing
- Bronze powdercoat bronze finish
- Corrosion resistant housing and hardware
- OxyShield 9-stage anti-oxidation process
- Silicone rubber gasket
- 1/2" coin plugs with O-rings for conduit and photocell

ELECTRICAL

- Quad Tap (QT) - 120/208/240/277V
- Dimmable driver standard
- 347-480V available

OPTICAL SYSTEM

- Prismatic borosilicate glass lens, or diffused lens available
- High quality heat sinks for temperature control
- IC current controlled LED circuits
- 165,000 hours @ L₇₀
- CRI: 80
- Type IV
- 3000K, 4000K, and 5000K available

ILLUMINATION

- 41.3W LED
- 47 System Watts
- ~ 250W HID

MOUNTING

- Optional cast aluminum mounting plate mounts directly over a 4" recessed outlet box, or use 1/2" surface conduit

CODE COMPLIANCE

- cSAus Listed for Wet Locations
- Meets UL Requirements
- IP65 Rated
- Assembled in USA available
- Meets DLC Requirements*

WARRANTY

- 5 Year
- 10 Year Available



WP3-Q Medium LED Wall Pack

ORDERING INFORMATION

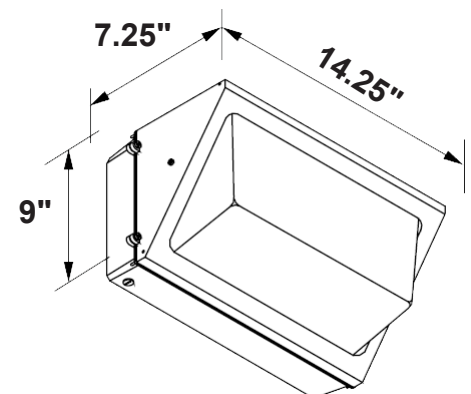
CATALOG #	LUMENS	COLOR	LENS
WP3-Q-41L-QT-30K-PL	4,473 Lumens	3000K	Prismatic
WP3-Q-41L-QT-30K-DL	2,583 Lumens	3000K	Diffused
WP3-Q-41L-QT-40K-PL*	5,283 Lumens	4000K	Prismatic
WP3-Q-41L-QT-40K-DL*	5,177 Lumens	4000K	Diffused
WP3-Q-41L-QT-50K-PL*	5,503 Lumens	5000K	Prismatic
WP3-Q-41L-QT-50K-DL*	5,393 Lumens	5000K	Diffused

OPTIONS (Factory Installed)

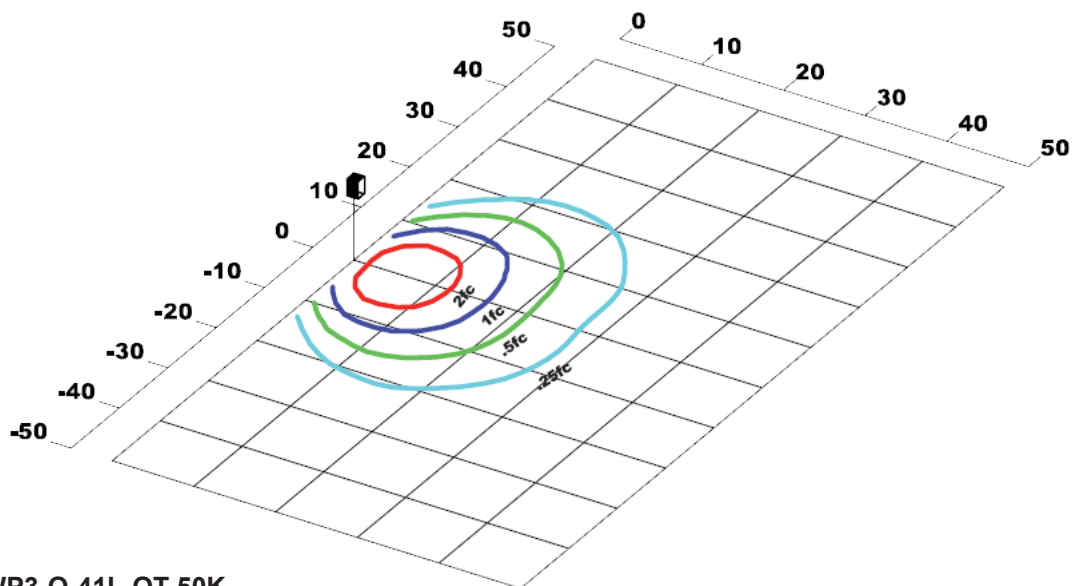
EBLED	-	Integral EM Ballast
SGF	-	Single Fusing
DBF	-	Double Fusing
SGP	-	Surge Protection
OCS	-	Occupancy Sensor
*Dimming for Mounting of 8 - 40' 40K and 50K only		
PC1	-	120V Photocell
PC3	-	120-277V Photocell
PC1P	-	120V Pencil Photocell
PC2P	-	277V Pencil Photocell
480V	-	347-480Vac
10YR	-	Ten Year Warranty
CC	-	Custom Color
USA	-	Assembled in USA

ACCESSORIES (Order Separately, Ships on Side)

WP3-Q-LG	-	Vandal Guard
WP3-Q-GS	-	Glare Shield
WP3-Q-WG	-	Wire Guard



PHOTOMETRICS



WP3-Q-41L-QT-50K
Mounting Height = 10ft