

RSW Series

RSW™ LED Street Luminaire – Medium

Rev. Date: V8 10/16/2019

Product Description

The RSW Series, utilizing WaveMax® Technology, will transform the way utilities and municipalities light their residential streets, interchanges, and expressways. With the first viable LED streetlight at warm CCT, the RSW Series delivers up to 121 LPW, enhanced visual comfort with reduced glare and high color contrast leading to improved overall illumination using less energy. The RSW Series provides warm, inviting dark sky friendly lighting that makes good economic sense.

Applications: Residential roads, collector roads, parking lots, and general area spaces

Performance Summary

Utilizes WaveMax® Technology

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 9,325

Efficacy: Up to 121 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5000K); 80 CRI (2700K, 3000K, 4000K & 5000K)

CCT: 2700K, 3000K, 4000K, 5000K

Limited Warranty*: 10 years

* See <http://creelighting.com/warranty> for warranty terms

Accessories

Field-Installed	
Backlight Control Shield RSW-BLSM - Provides 1 mounting height cutoff - 0.5" (13mm) 301 stainless steel construction - Refer to initial delivered lumen tables for lumen output	Cul-De-Sac Shield RSW-CLSM - Provides backlight and sidelight control - 0.5" (13mm) 301 stainless steel construction - Lumen multiplier: 0.77
Bird Guard RSW-BRDGRDM - 5052-H32 aluminum construction	Front Light Shield RSW-FLSM - Provides front light control - 0.5" (13mm) 301 stainless steel construction - Lumen multiplier: 0.87
Shorting Cap XA-XLSHRT	

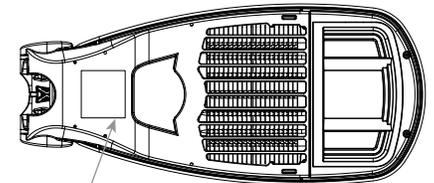
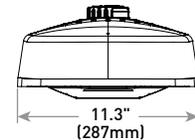
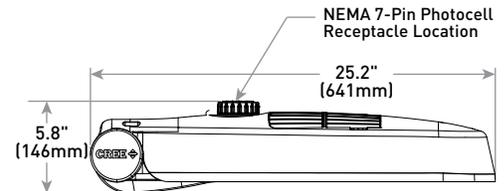
Ordering Information

Example: RSWM-A-HT-2ME-9L-27K8-UL-GY-N

RSWM	A	HT		9L		UL		N	
Product	Version	Mounting	Optic	Lumen Package**	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
RSWM Medium	A	HT Horizontal Tenon	2LG* Type II Long 2ME* Type II Medium 3ME* Type III Medium	9L 9,000 Lumens	27K8 2700K, 80 CRI 30K7 3000K, 70 CRI 30K8 3000K, 80 CRI 40K7 4000K, 70CRI 40K8 4000K, 80 CRI 50K7 5000K, 70CRI 50K8 5000K, 80CRI	UL Universal 120-277V	BK Black BZ Bronze GY Grey	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15 - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others	PP Pallet Packaging - Multiple luminaires (up to 22 maximum per pallet) Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Lumen Output - Must select Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range lumen adjustability - Includes wattage label for setting selected - Refer to pages 7 & 8 for power and lumen values - Luminaire may also be dimmed through 7-Pin receptacle with use of dimming control by others - Refer to dimming spec sheet for dimming multipliers SS Stainless Steel Bolts X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select X7, X6, X5, X4, X3, X2, or X1 - Lumen output is permanently locked to the setting selected - Includes wattage label for setting selected - Refer to pages 7 & 8 for power and lumen values - Dimming is only available through 7-Pin receptacle with use of dimming control by others - Refer to dimming spec sheet for dimming multipliers

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

** Lumen Package codes identify approximate light output only. Actual lumen output levels vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



Utility Label Location

Weight*
15.6 lbs. (7.1 kg)

* RSW-BLSM Accessory: add 0.4 lbs. (0.2kg); RSW-CLSM or RSW-FLSM Accessories: add 0.6 lbs. (0.3kg)

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

Product Specifications

WAVEMAX® TECHNOLOGY

Featuring up to 90% optical efficiency and precise control, WaveMax® Technology provides unmatched comfort and decreased LED source luminance by smoothly spreading brightness over a broader area. When integrated with luminous surfaces made of a polymer medium engineered with DiamondFacet™ optical elements, extremely high efficacy luminaires are the result – ultimately creating more visually comfortable and appealing environments while exceeding illumination performance.

CONSTRUCTION & MATERIALS

- Housing constructed of high strength, lightweight bulk molding compound for long weathering and durability
- UV stabilized polymeric door with handle pocket for tool-less entry
- Straight in wiring to terminal block for power input (#6-#14 AWG)
- Optic box and driver enclosure inside optic box meet IP66 requirements
- Mounts on 1.25" [32mm] IP, 1.66" [42mm] O.D. or 2" [51mm] IP, 2.375" [60mm] O.D. horizontal tenon (minimum 8" [203mm] in length) and is adjustable +/- 5° in 2.5° increments to allow for fixture leveling (two axis T-level included)
- Luminaire secures with two grade 5 steel mounting bolts w/clear zinc clad finish standard; optional 316 stainless steel mounting bolts available with SS option
- Comes standard with Utility Label per ANSI C136.15 and 7-pin NEMA® Photocell Receptacle per ANSI C136.41
- **Weight:** 15.6 lbs. (7.1kg); add 0.4 lbs. (0.2kg) for RSW-BLSM accessory; add 0.6 lbs. (0.3kg) for RSW-CLSM or RSW-FLSM accessories

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **10V Source Current:** 0.15mA
- **Operating Temperature Range:** -40°C - +50°C [-40°F - + 122°F]

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- Meets CALTrans 611 Vibration testing
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Meets Buy American requirements within ARRA
- RoHS compliance. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 27K or 30K CCT. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
- DLC and DLC Premium qualified versions available. Please refer to <https://www.designlights.org/search/> for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*								
Lumen Package	CCT/CRI	System Watts 120-277V	Utility Label Wattage	Efficacy	Total Current (A)			
					120V	208V	240V	277V
9L	27K8	83	80	98	0.74	0.42	0.36	0.32
	30K7	83	80	112	0.74	0.42	0.36	0.32
	30K8	83	80	105	0.74	0.42	0.36	0.32
	40K7	78	80	120	0.70	0.40	0.34	0.30
	40K8	83	80	111	0.74	0.42	0.36	0.32
	50K7	77	80	121	0.69	0.39	0.34	0.29
	50K8	80	80	117	0.72	0.41	0.35	0.31

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%

RSW Series (RSWM) Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	1.04	1.04	1.04	1.04	1.04
10°C (50°F)	1.03	1.03	1.03	1.03	1.03
15°C (59°F)	1.02	1.02	1.02	1.02	1.02
20°C (68°F)	1.01	1.01	1.01	1.01	1.01
25°C (77°F)	1.00	1.00	1.00	1.00	1.00

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

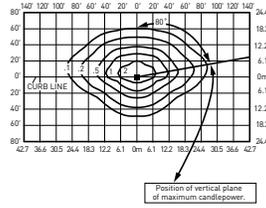
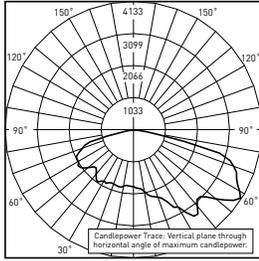
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/street-and-roadway/rsw-series>

2LG

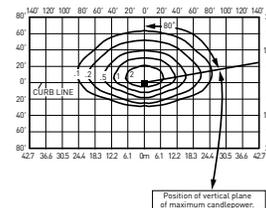
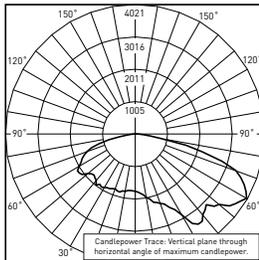


UL Verification Services Test Report #:
12311460.01
RSWM-A-**-2LG-9L-30K7-UL-**-N
Initial Delivered Lumens: 9,178

RSWM-A-**-2LG-9L-30K7-UL-**-N
Mounting Height: 25' [7.6m] A.F.G.
Initial Delivered Lumens: 9,325
Initial FC at grade

Type II Long Distribution									
Lumen Package	CRI	2700K		3000K		4000K		5000K	
		Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
9L	70	N/A	N/A	9,325	B2 U0 G2	9,325	B2 U0 G2	9,325	B2 U0 G2
	80	8,175	B2 U0 G2	8,700	B2 U0 G2	9,200	B2 U0 G2	9,325	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



UL Verification Services Test Report #:
11705478-02
RSWM-A-**-2LG-9L-30K7-UL-**-N
w/RSW-BLSM
Initial Delivered Lumens: 8,466

RSWM-A-**-2LG-9L-30K7-UL-**-N
w/RSW-BLSM
Mounting Height: 25' [7.6m] A.F.G.
Initial Delivered Lumens: 8,550
Initial FC at grade

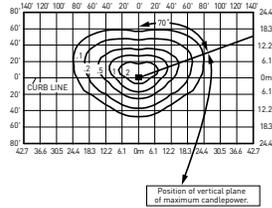
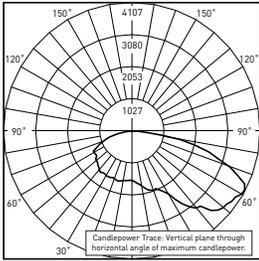
Type II Long w/BLS Distribution									
Lumen Package	CRI	2700K		3000K		4000K		5000K	
		Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
9L	70	N/A	N/A	8,550	B2 U0 G2	8,550	B2 U0 G2	8,550	B2 U0 G2
	80	7,500	B2 U0 G2	7,975	B2 U0 G2	8,450	B2 U0 G2	8,550	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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Photometry

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2ME

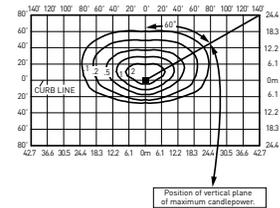
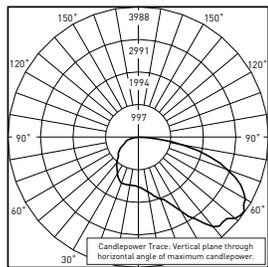


UL Verification Services Test Report #:
12311460.05
RSWM-A-**-2ME-9L-30K7-UL-**-N
Initial Delivered Lumens: 9,487

RSWM-A-**-2ME-9L-30K7-UL-**-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,325
Initial FC at grade

Type II Medium Distribution									
Lumen Package	CRI	2700K		3000K		4000K		5000K	
		Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
9L	70	N/A	N/A	9,325	B2 U0 G3	9,325	B2 U0 G3	9,325	B2 U0 G3
	80	8,175	B2 U0 G2	8,700	B2 U0 G2	9,200	B2 U0 G3	9,325	B2 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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UL Verification Services Test Report #:
11705478.01
RSWM-A-**-2ME-9L-30K7-UL-**-N
w/RSW-BLSM
Initial Delivered Lumens: 8,383

RSWM-A-**-2ME-9L-30K7-UL-**-N
w/RSW-BLSM
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,550
Initial FC at grade

Type II Medium w/BLS Distribution									
Lumen Package	CRI	2700K		3000K		4000K		5000K	
		Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
9L	70	N/A	N/A	8,550	B2 U0 G3	8,550	B2 U0 G3	8,550	B2 U0 G3
	80	7,500	B1 U0 G2	7,975	B2 U0 G2	8,450	B2 U0 G3	8,550	B2 U0 G3

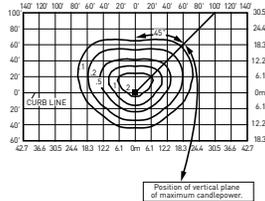
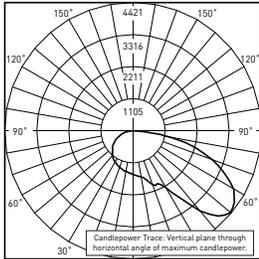
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

RSW™ LED Street Luminaire – Medium

Photometry

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3ME



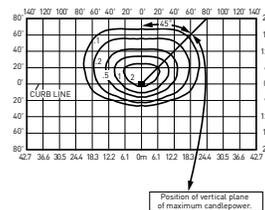
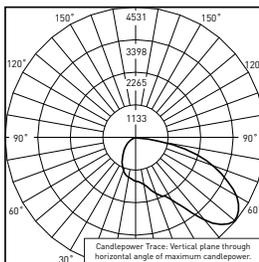
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RSWM-A**-3ME-9L-30K7-UL**-N
Initial Delivered Lumens: 9,302

RSWM-A**-3ME-9L-30K7-UL**-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,325
Initial FC at grade

Type III Medium Distribution									
Lumen Package	CRI	2700K		3000K		4000K		5000K	
		Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
9L	70	N/A	N/A	9,325	B2 U0 G2	9,325	B2 U0 G2	9,325	B2 U0 G2
	80	8,175	B2 U0 G2	8,700	B2 U0 G2	9,200	B2 U0 G2	9,325	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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UL Verification Services Test Report #
11705478.03
RSWM-A**-3ME-9L-30K7-UL**-N
w/RSW-BLSM
Initial Delivered Lumens: 8,532

RSWM-A**-3ME-9L-30K7-UL**-N
w/RSW-BLSM
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,550
Initial FC at grade

Type III Medium w/BLS Distribution									
Lumen Package	CRI	2700K		3000K		4000K		5000K	
		Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
9L	70	N/A	N/A	8,550	B2 U1 G2	8,550	B2 U1 G2	8,550	B2 U1 G2
	80	7,500	B1 U1 G2	7,975	B1 U1 G2	8,450	B2 U1 G2	8,550	B2 U1 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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Luminaire EPA

Horizontal Tenon Mount – Weight: 15.6 lbs. (7.1kg); RSW-BLSM Accessory: add 0.4 lbs. (0.2kg); RSW-CLSM or RSW-FLSM Accessories: add 0.6 lbs. (0.3kg)					
Luminaire	Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration If used with Cree Lighting tenons, please add tenon EPA with luminaire EPA					
					
	PD-1H4; PT-1H	PD-2H4(90); PT-2H(90)	PD-2H4(180); PT-2H(180)	PD-3H4(90); PT-3H(90)	PD-4H4(90); PT-4H(90)
Standard Luminaire	0.86	1.24	1.71	2.10	2.49
Luminaire w/RSW-BLSM, RSW-CLSM or RSW-FLSM Accessory	0.86	1.59	1.71	2.45	3.19

Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.19

Tenons and Brackets* (must specify color)	
<p>Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-1H4 – Single PD-3H4(90) – 90° Triple PD-2H4(90) – 90° Twin PD-4H4(90) – 90° Quad PD-2H4(180) – 180° Twin</p>	<p>Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375"-3" (60-76mm) O.D. round aluminum or steel poles or tenons PT-1H – Single PT-3H(90) – 90° Triple PT-2H(90) – 90° Twin PT-4H(90) – 90° Quad PT-2H(180) – 180° Twin</p>
<p>Wall Mount Brackets - Mounts to wall or roof WM-2L – Extended Horizontal</p>	<p>Direct Arm Pole Adaptor Bracket - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8</p>

* Refer to the [Bracket and Tenons spec sheet](#) for more details

Field Adjustable Output (Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the RSW Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include a wattage label that indicates the wattage of the luminaire at the selected lumen output (Rounded to nearest 10 watts per ANSI C136.15-2015.). Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the RSW Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a wattage label that indicates the wattage of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 9L

Q Option Setting	X Option Setting	CCT/CRI	System Watts [†]		Lumen Values [†]		Optics Qualified on DLC QPL	
			120-277V	Label Wattage	2LG, 2ME & 3ME	w/BLS	Standard	Premium
Q8 (Full Power)	N/A (Full Power)	27K8	83	80	8,175	7,500	2LG, 2ME, 3ME	
		30K7	83	80	9,325	8,550		2LG, 2ME, 3ME
		30K8	83	80	8,700	7,975	2LG, 2ME, 3ME	
		40K7	78	80	9,325	8,550		2LG, 2ME, 3ME
		40K8	83	80	9,200	8,450	2LG, 2ME, 3ME	
		50K7	77	80	9,325	8,550		2LG, 2ME, 3ME
		50K8	80	80	9,325	8,550		2LG, 2ME, 3ME
Q7	X7	27K8	81	80	7,975	7,325	2LG, 2ME, 3ME	
		30K7	81	80	9,100	8,350		2LG, 2ME, 3ME
		30K8	81	80	8,500	7,800	2LG, 2ME, 3ME	
		40K7	76	80	9,100	8,350		2LG, 2ME, 3ME
		40K8	81	80	8,975	8,250	2LG, 2ME, 3ME	
		50K7	75	80	9,100	8,350		2LG, 2ME, 3ME
		50K8	78	80	9,100	8,350		2LG, 2ME, 3ME
Q6	X6	27K8	75	80	7,850	7,200	2LG, 2ME, 3ME	
		30K7	75	80	8,975	8,250		2LG, 2ME, 3ME
		30K8	75	80	8,375	7,675	2LG, 2ME, 3ME	
		40K7	71	70	8,975	8,250		2LG, 2ME, 3ME
		40K8	75	80	8,850	8,125		2LG, 2ME, 3ME
		50K7	70	70	8,975	8,250		2LG, 2ME, 3ME
		50K8	73	70	8,975	8,250		2LG, 2ME, 3ME
Q5	X5	27K8	69	70	7,300	6,700	2LG, 2ME, 3ME	
		30K7	69	70	8,325	7,650		2LG, 2ME, 3ME
		30K8	69	70	7,775	7,125	2LG, 2ME, 3ME	
		40K7	65	70	8,325	7,650		2LG, 2ME, 3ME
		40K8	69	70	8,225	7,550		2LG, 2ME, 3ME
		50K7	64	60	8,325	7,650		2LG, 2ME, 3ME
		50K8	67	70	8,325	7,650		2LG, 2ME, 3ME

[†] Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V +/-10%

Field Adjustable Output (Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the RSW Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include a wattage label that indicates the wattage of the luminaire at the selected lumen output (Rounded to nearest 10 watts per ANSI C136.15-2015.). Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the RSW Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a wattage label that indicates the wattage of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 9L

Q Option Setting	X Option Setting	CCT/CRI	System Watts [†]		Lumen Values [†]		Optics Qualified on DLC QPL	
			120-277V	Label Wattage	2LG, 2ME & 3ME	w/BLS	Standard	Premium
Q4	X4	27K8	65	70	6,800	6,250	2LG, 2ME, 3ME	
		30K7	65	70	7,750	7,125		2LG, 2ME, 3ME
		30K8	65	70	7,225	6,625	2LG, 2ME, 3ME	
		40K7	62	60	7,750	7,125		2LG, 2ME, 3ME
		40K8	65	70	7,650	7,025		2LG, 2ME, 3ME
		50K7	61	60	7,750	7,125		2LG, 2ME, 3ME
		50K8	63	60	7,750	7,125		2LG, 2ME, 3ME
Q3	X3	27K8	61	60	6,400	5,875	2LG, 2ME, 3ME	
		30K7	61	60	7,300	6,700		2LG, 2ME, 3ME
		30K8	61	60	6,825	6,275		2LG, 2ME, 3ME
		40K7	59	60	7,300	6,700		2LG, 2ME, 3ME
		40K8	61	60	7,200	6,600		2LG, 2ME, 3ME
		50K7	58	60	7,300	6,700		2LG, 2ME, 3ME
		50K8	60	60	7,300	6,700		2LG, 2ME, 3ME
Q2	X2	27K8	60	60	6,125	5,625	2LG, 2ME, 3ME	
		30K7	60	60	7,000	6,425		2LG, 2ME, 3ME
		30K8	60	60	6,525	6,000		2LG, 2ME, 3ME
		40K7	56	60	7,000	6,425		2LG, 2ME, 3ME
		40K8	60	60	6,900	6,325		2LG, 2ME, 3ME
		50K7	56	60	7,000	6,425		2LG, 2ME, 3ME
		50K8	58	60	7,000	6,425		2LG, 2ME, 3ME
Q1	X1	27K8	50	50	5,700	5,225	2LG, 2ME, 3ME	
		30K7	50	50	6,500	5,975		2LG, 2ME, 3ME
		30K8	50	50	6,050	5,550		2LG, 2ME, 3ME
		40K7	48	50	6,500	5,975		2LG, 2ME, 3ME
		40K8	50	50	6,400	5,875		2LG, 2ME, 3ME
		50K7	47	50	6,500	5,975		2LG, 2ME, 3ME
		50K8	49	50	6,500	5,975		2LG, 2ME, 3ME

[†] Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V +/-10%

Cree Edge™ Series

LED Pathway Luminaire

Product Description

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

Performance Summary

Patented NanoOptic® Product Technology

Assembled in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

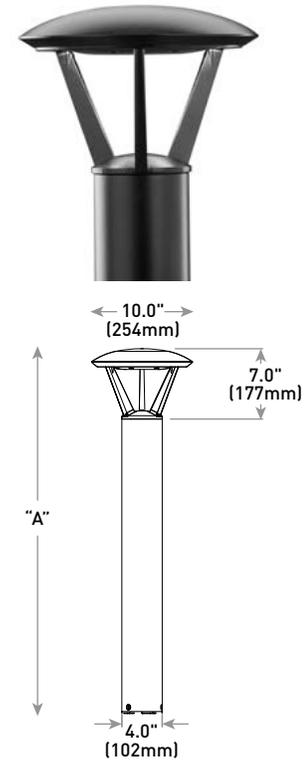
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

*See <http://lighting.cree.com/warranty> for warranty terms

Accessories

Field-Installed
Upgrade Kit - Used for replacement of existing bollards with a bolt hole circle of 5.75" (146mm) XA-XBP8RSV XA-XBP8RWH XA-XBP8RBK XA-XBP8RBZ



Model	Dim. "A"	Weight*
Landscape (P0)	13" (330mm)	12.7 lbs. (5.8kg)
Landscape (P1)	18" (457mm)	13.3 lbs. (6.0kg)
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)

* Add 4.5 lbs. (2.0kg) for 347-480V

Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

PWY-EDG	Optic	Mounting	LED Count (x9)	Series	Voltage	Color Options	Drive Current	Options
PWY-EDG	2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short	P0 13" (330mm) landscape P1 18" (457mm) landscape P3 36" (914mm) pathway P4 42" (1067mm) pathway P8 96" (2438mm) pedestrian	02	E	UL Universal 120-277V UH* Universal 347-480V - Available with P3, P4, and P8 mounts only 12 120V - Available only with TL option 27 277V - Available only with TL option	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA - Available with P1, P3, P4, and P8 mounts only	F Fuse - When code dictates fusing, use time delay fuse - Available for U.S. applications only TL Two-Level (175/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details WB Welded Base Plate - Standard on P8 mount option, available with P3 and P4 mount - Includes welded base cover 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire

* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table



US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415

Rev. Date: V6 12/10/2018

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook (provided).
Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Open design, passive thermal management for superior lumen maintenance
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load at 120V
- **Total Harmonic Distortion:** < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*								
LED Count (x9)	System Watts 120-277V	System Watts 347-480V	Total Current (A)					
			120V	208V	240V	277V	347V	480V
350mA								
02	22	28	0.18	0.12	0.10	0.10	0.09	0.13
525mA								
02	34	40	0.29	0.19	0.17	0.15	0.12	0.13

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Cree Edge™ Series Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

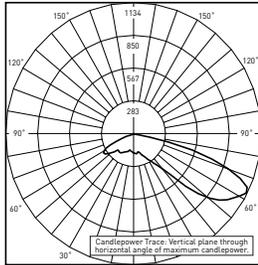
² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip

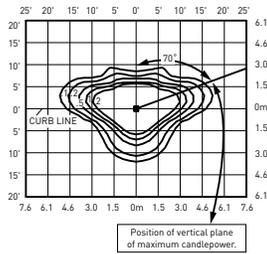
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

2M



RESTL Test Report #: PL5758-001
 PWY-EDG-2M-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,549

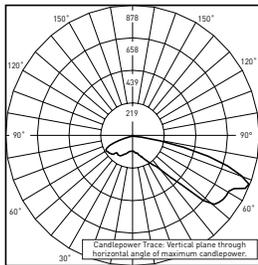


PWY-EDG-2M-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,565
 Initial FC at grade

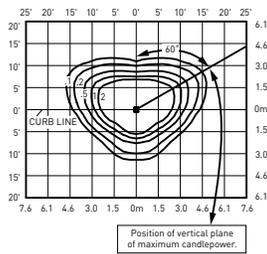
Type II Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,565	B1 U0 G1	1,625	B1 U0 G1
525mA				
02	2,191	B1 U0 G1	2,276	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

3M



RESTL Test Report #: PL5698-001
 PWY-EDG-3M-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,470

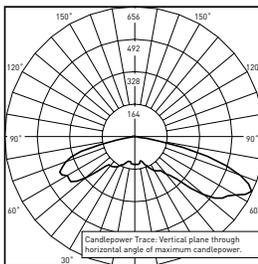


PWY-EDG-3M-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,389
 Initial FC at grade

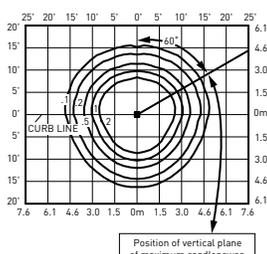
Type III Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,389	B1 U0 G1	1,442	B1 U0 G1
525mA				
02	1,944	B1 U0 G1	2,019	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

5M



RESTL Test Report #: PL5798-001
 PWY-EDG-5M-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,780



PWY-EDG-5M-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,666
 Initial FC at grade

Type V Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,666	B1 U2 G1	1,730	B1 U2 G1
525mA				
02	2,333	B2 U2 G2	2,422	B2 U2 G2

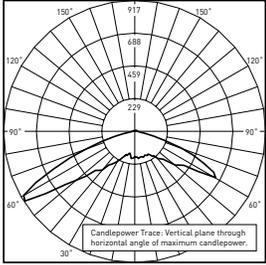
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



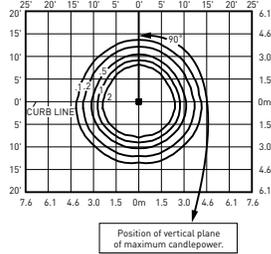
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

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RESTL Test Report #: PL5759-001
 PWY-EDG-5S-**-02-E-UL-350-40K
 Initial Delivered Lumens: 1,897



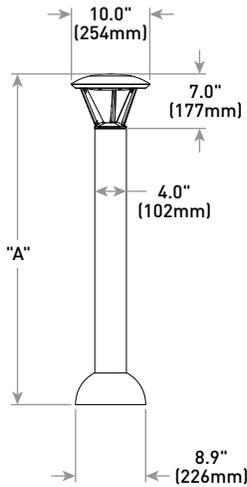
PWY-EDG-5S-**-02-E-UL-350-40K
 Mounting Height: 3' [0.9m] A.F.G.
 Initial Delivered Lumens: 1,868
 Initial FC at grade

Type V Short Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,868	B1 U2 G1	1,940	B1 U2 G1
525mA				
02	2,615	B1 U2 G1	2,716	B1 U2 G1

* Initial delivered lumens at 25°C [77°F]. Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

with Welded Base



Model	Dim. "A"	Weight*
Pathway (P3)	36" [914mm]	17.9 lbs. [8.1kg]
Pathway (P4)	42" [1068mm]	18.6 lbs. [8.4kg]
Pedestrian (P8)	96" [2438mm]	28.4 lbs [12.9kg]

* Add 4.5 lbs. [2.0kg] for 347-480V