

LEDway® Series

LEDway® High Output Street Light – Double Module

WISDOT LED-D
 BXSTRLWY9129&
 STR-LWY-3ME-HT-2-F-UL-SV-E-40K-DIM-Q-R

Product Description

LEDway® High Output Streetlight series for roadway lighting expands the application range replacing from 70W to 400W HPS. With industry leading optimized optical control and adjustable output for versatility, the LEDway® High Output series significantly improves the economic value for the end application.

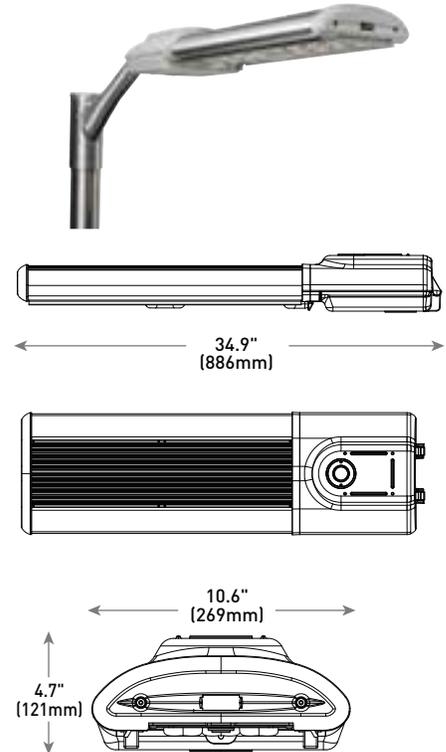
Performance Summary

- NanoOptic® Precision Delivery Grid™ optic
- Made in the U.S.A. of U.S. and imported parts
- CRI:** Minimum 70 CRI
- CCT:** 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)
- Limited Warranty*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

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

Accessories

Field-Installed	
Bird Spikes for Housing XA-BRDSPKHS	Backlight Shield STRLWY-BLS2



Module	Weight
Double	26 lbs. (11.8kg)

Ordering Information

Example: STR-LWY-2ME-HT-2 F-UL-SV-A-40K

STR-LWY	3ME	HT	2	F	UL	SV	E	40K	DIM-Q-R	
Product	Optic	Mounting	Module	Series	Voltage	Color Options**	Input Power Designator	CCT	Options	
STR-LWY	2ME* Type II Medium 2LG* Type II Long 3ME* Type III Medium 4ME* Type IV Medium	HT Horizontal Tenon	2 Double	F	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	A 274W See final page for setting E detail	30K 3000K 40K 4000K 57K 5700K	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed wattage of specified input power designator F Fuse - When code dictates fusing, use time delay fuse - Available for U.S. applications only PD Power Door - All connections between door and luminaire are shipped unconnected from the factory; door release spring included to open door automatically when the latches are released	Q Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details R NEMA® Photocell Receptacle - 3-pin receptacle per ANSI C136.10 - Photocell and shorting cap by others - Intended for downlight applications at 0° tilt SC Door Safety Tether - Stainless steel aircraft cable UTL Utility - Label per ANSI C136.15 - Includes exterior wattage label that indicates the maximum available wattage of the luminaire - Includes Q option - Refer to Field Adjustable Output spec sheet for details

* Available with Backlight Shield when ordered with field-installed accessory (see table above)
 ** Light engine portion of extrusion is not painted and will remain natural aluminum regardless of color selection

Item number BXSTRLWY9129&
 indicates with WISDOT D label
 and 7PIN receptacle



Product Specifications

CONSTRUCTION & MATERIALS

- **Housing is all aluminum construction**
- Terminal block for power input suitable for #2–#14 AWG wire
- Luminaire is designed to mount on a 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon and/or a 1.25" (32mm) IP, 1.66" (42mm) O.D. horizontal tenon (minimum 8" [203mm] in length) and is adjustable +/- 5° to allow for luminaire leveling (**two axis T-level included**)
- Luminaire secures with two mounting bolts
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight: 26.0 lbs. (11.8kg)**

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- **10V Source Current:** 0.30mA
- Quick disconnect harness suitable for mate and break under load provided on power feed to driver for ease of maintenance
- **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
- Consult factory for CE Certified products
- Meets CALTrans 611 Vibration testing
- **Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards**
- 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
- DLC qualified when ordered with 2ME or 3ME optics and 40K or 57K CCT. Please refer to www.designlights.org/QPL for most current information
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT. Please refer to <http://darksky.org/fsa/fsa-products/> for most current information
- **RoHS compliant. Consult factory for additional details**
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions

Electrical Data*								
Input Power Designator	System Watts 120-277V	System Watts 347-480V	Total Current (A)					
			120V	208V	240V	277V	347V	480V
A	274	279	2.32	1.33	1.16	1.02	0.84	0.60

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

See final page for watts

Recommended LEDway® Series High Output Lumen Maintenance Factors (LMF) 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	1.02	1.01	1.00	0.99
10°C (50°F)	1.03	1.01	1.00	0.99	0.98
15°C (59°F)	1.02	1.00	0.99	0.98	0.97
20°C (68°F)	1.01	0.99	0.98	0.97	0.96
25°C (77°F)	1.00	0.98	0.97	0.96	0.95

¹ Lumen maintenance values at 4000K and 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

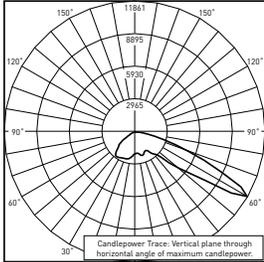
² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

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 (DUT) i.e. the packaged LED chip

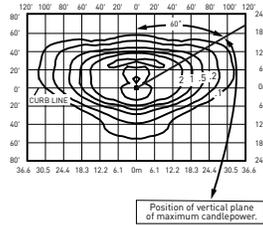
Photometry

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/street-and-roadway/ledway-high-output>

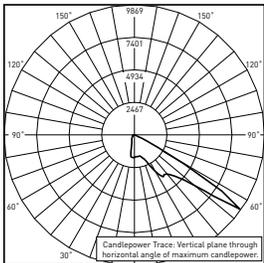
2ME



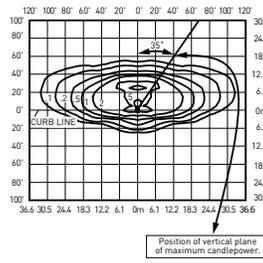
RESTL Test Report #: PL06677-001B
STR-LWY-2ME-**-1-F-UL-A-40K
Initial Delivered Lumens: 14,256



STR-LWY-2ME-**-2-F-UL-A-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 26,596
Initial FC at grade



RESTL Test Report #: PL06677-002B
STR-LWY-2ME-**-1-F-UL-A-40K
w/STRLWY-BLS1
Initial Delivered Lumens: 9,959



STR-LWY-2ME-**-2-F-UL-A-40K
w/STRLWY-BLS2
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 19,747
Initial FC at grade

Type II Medium Distribution

Input Power Designator	3000K		4000K		5700K	
	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
A	22,163	B3 U0 G3	26,596	B3 U0 G3	28,462	B3 U0 G3

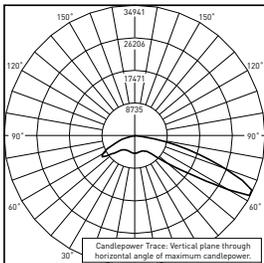
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type II Medium w/BLS Distribution

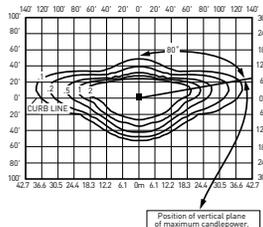
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	16,622	B2 U0 G3	19,947	B2 U0 G3	21,347	B2 U0 G3

* 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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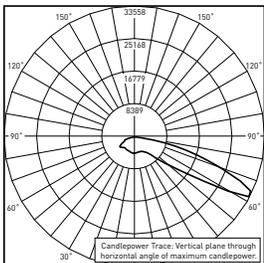
2LG



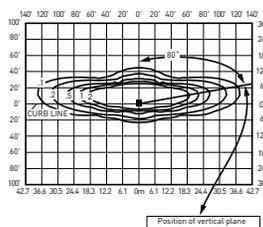
RESTL Test Report #: PL04293-001
STR-LWY-2LG-**-2-F-UL-A-40K
Initial Delivered Lumens: 25,916



STR-LWY-2LG-**-2-F-UL-A-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 26,519
Initial FC at grade



RESTL Test Report #: PL04293-002
STR-LWY-2LG-**-2-F-UL-A-40K
w/STRLWY-BLS2
Initial Delivered Lumens: 18,309



STR-LWY-2LG-**-2-F-UL-A-40K
w/STRLWY-BLS2
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,345
Initial FC at grade

Type II Long Distribution

Input Power Designator	3000K		4000K		5700K	
	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
A	22,099	B3 U0 G3	26,519	B4 U0 G3	28,380	B4 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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Type II Long w/BLS Distribution

Input Power Designator	3000K		4000K		5700K	
	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
A	14,454	B2 U0 G2	17,345	B2 U0 G2	18,562	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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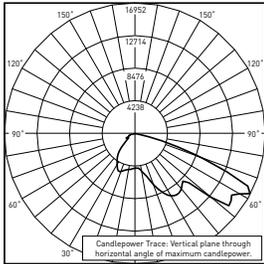


LEDway® High Output Street Light – Double Module

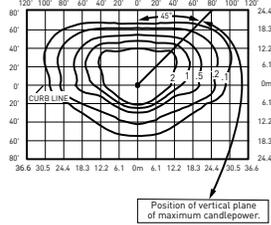
Photometry

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/street-and-roadway/ledway-high-output>

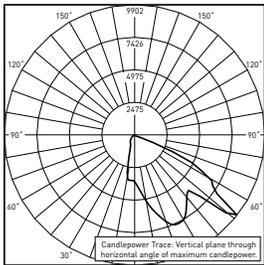
3ME



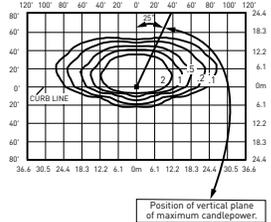
RESTL Test Report #: PL04554-001
STR-LWY-3ME-**-2-F-UL-A-40K
Initial Delivered Lumens: 26,811



STR-LWY-3ME-**-2-F-UL-A-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 26,288
Initial FC at grade



RESTL Test Report #: PL04483-002
STR-LWY-3ME-**-2-F-UL-A-30K
w/STRLWY-BLS2
Initial Delivered Lumens: 15,944



STR-LWY-3ME-**-2-F-UL-A-40K
w/STRLWY-BLS2
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 18,791
Initial FC at grade

Type III Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	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
A	21,856	B3 U0 G3	26,228	B3 U0 G3	28,068	B3 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: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

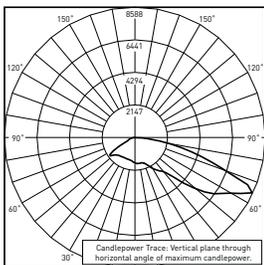
See final page for lumens

Type III Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	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
A	15,659	B2 U0 G2	18,791	B2 U0 G2	20,109	B2 U0 G2

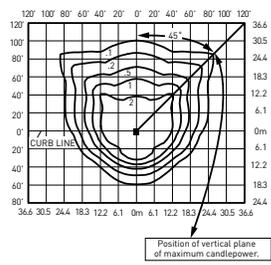
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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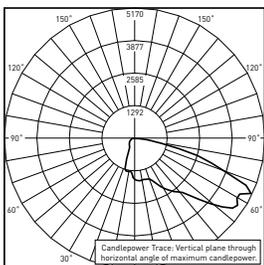
4ME



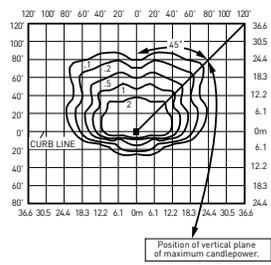
RESTL Test Report #: PL04858-001
STR-LWY-4ME-**-1-F-UL-A-30K
Initial Delivered Lumens: 11,072



STR-LWY-4ME-**-2-F-UL-A-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 26,307
Initial FC at grade



RESTL Test Report #: PL04859-001
STR-LWY-4ME-**-1-F-UL-A-30K
w/STRLWY-BLS1
Initial Delivered Lumens: 7,395



STR-LWY-4ME-**-2-F-UL-A-40K
w/STRLWY-BLS2
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,767
Initial FC at grade

Type IV Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	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
A	21,922	B3 U0 G3	26,307	B4 U0 G3	28,153	B4 U0 G4

* 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: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type IV Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	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
A	13,973	B2 U0 G2	16,767	B2 U0 G2	17,944	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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Luminaire EPA

Horizontal Tenon Mount – Weight: 26.0 lbs. (11.8kg)						
Single	1 @ 90°	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
Tenon Configuration If used with Cree tenons, please add tenon EPA with Luminaire EPA						
XA-TMDA8	PT-1H/PD-1H4	PT-2H(90)/PD-2H4(90)	PT-2H(180)/PD-2H4(180)	PT-3H(90)/PD-3H4(90)	PT-3H(120)	PT-4H(90)/PD-4H4(90)
1.02	1.24	1.66	2.25	2.44	2.17	2.84

Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
XA-TMDA8	0.07

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>Wall Mount Brackets - Mounts to wall or roof WM-2L – Standard</p>	<p>Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons - Mounts to 3" (76mm), 5" (127mm), or 6" (152mm) square pole with PB-1A* tenon 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>Direct Arm Pole Adapter 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

* Specify pole size: 3 (3"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 5 (5") or 6 (6") for quad luminaire orientation

For use with XSP1™, XSP2™, XSPR™, LEDway® High Output, OSQ™ and RSW™ LED Street and Area Luminaires

Description:

The Field Adjustable Output option enables luminaires within the LEDway High Output Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When a setting other than A is specified with the UTL option, that setting becomes the maximum wattage of the luminaire, and a NEMA label reflecting this wattage is affixed to the luminaire. Lumen output and power consumption can only be adjusted downward from the maximum wattage.

LEDway® High Output Luminaires – Single Module

Input Power Designator	System Watts [†]		Lumen Multipliers [†]	Optics Qualified on the DesignLights Consortium Qualified Products List	
	120-277V	347-480V	Types 2ME, 3ME	4000K	5700K
A/Q9	136	140	1.00	2ME, 3ME	2ME, 3ME
B/Q8	130	133	0.97		
C/Q7	123	126	0.94		
D/Q6	117	119	0.91		
E/Q5	107	109	0.86		
F/Q4	97	99	0.81		
G/Q3*	87	89	0.76		
H/Q2*	78	79	0.67		
I/Q1*	68	69	0.61		

LEDway® High Output Luminaires – Double Module

Input Power Designator	System Watts [†]		Lumen Multipliers [†]	Optics Qualified on the DesignLights Consortium Qualified Products List	
	120-277V	347-480V	Types 2ME, 3ME	4000K	5700K
A/Q9	274	279	1.00	2ME, 3ME	2ME, 3ME
B/Q8	265	265	0.97		
C/Q7	252	251	0.94		
D/Q6	238	237	0.91		
E/Q5	214	217	0.86 22556 lumens		
F/Q4	198	198	0.81		
G/Q3*	172	177	0.76		
H/Q2*	153	157	0.67		
I/Q1*	136	137	0.61		

* Not available with UTL option
[†] Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-480V +/-10%

