



**CITY OF EAST PALO ALTO, CALIFORNIA**

**PLANS, SPECIFICATIONS AND ESTIMATES (PS&E) FOR  
STREETLIGHT PLACEMENT AND UPGRADE PROJECT**

**PUBLIC WORKS PROJECT NO. ST-04**

**PREPARED BY CITY OF EAST PALO ALTO  
PUBLIC WORKS ENGINEERING DIVISION**

**PART I – PLANS (LISTS AND MAPS)**

SEE FOLLOWING PAGES

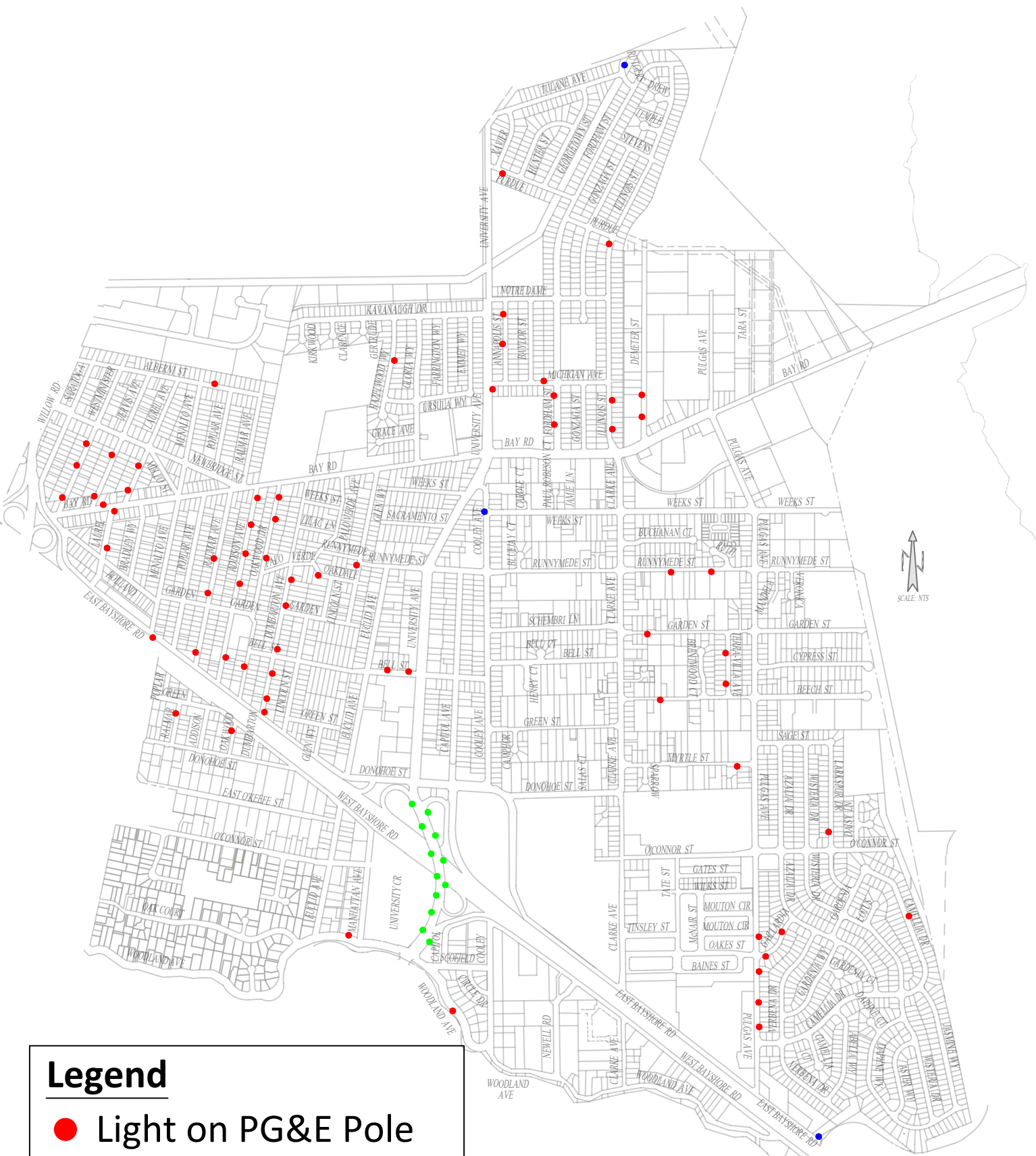
### List of Proposed Locations

No.	Service Location	Comments	Pole #
1	2130 Addison Ave	PGE Pole	#2130
2	2222 Addison Ave	PGE Pole	#120092596
3	2248 Addison Ave	PGE Pole	#DF3
4	2280 Addison Ave	PGE Pole	#DF6/#583
5	2292 Addison Ave	PGE Pole	#2292
6	1113 Alberni	PGE Pole	#14745
7	2589 Anapolis	PGE Pole	#2589
8	2555 Annapolis	PGE Pole	#120159482
9	999 Bay Rd	PGE Pole	#0023
10	956 Beech	PGE Pole (Tree Trimming)	#956
11	575 Bell	PGE Pole	#575
12	545 Bell	PGE Pole	#545
13	1376 Camelia	PGE Pole	#1376
14	2369 Cooley ave at Weeks intersection	New Pole	#2369
15	141 Demeter (South Side)	PGE Pole	#110413689
16	141 Demeter (North Side)	PGE Pole	#141- PD
17	2110 Dumbarton	PGE Pole	#2110
18	2126 Dumbarton	PGE Pole	#2126
19	2176 Dumbarton	PGE Pole	#2176
20	2208 Dumbarton	PGE Pole	#12061070
21	2284 Dumbarton	PGE Pole	#2284
22	1885 East Bayshore (Trail Entrance)	AT&T Pole (No Power)/ New Pole	N/A
23	East Bayshore Rd at Menalto intersection on sound wall	PGE Pole	Review
24	2433 Fordham	PGE Pole	#2433
25	2487 Fordham	PGE Pole	#2487
26	1108 Gaillardia	PGE Pole	#1108
27	1119 Gaillardia	PGE Pole	#1119
28	Corner of Garden & 2255 Dumbarton	PGE Pole	#175/#0605
29	934 Garden	PGE Pole	#934
30	2293 Glen Way	PGE Pole	#2293
31	2552 Hazelwood	PGE Pole	#2552
32	2428 Illinois	PGE Pole	#2428
33	2683 Illinois	PGE Pole	#120147557
34	2494 Illinois	PGE Pole	#2494
35	1165 Jarvis	PGE Pole	#1165
36	1109 Jarvis	PGE Pole (Tree Trimming)	#1109
37	411 Larkspur	PGE Pole	#411
38	1040 Laurel	PGE Pole (No Power)/ New Pole	#1040
39	1016 Laurel	PGE Pole	#1016
40	1115 Laurel	PGE Pole	#1115
41	1175 Laurel	PGE Pole	#10843
42	1901 Manhattan (on Woodland)	PGE Pole	#12881
43	1667 Michigan	PGE Pole	#1661
44	Across 1078 Myrtle street	PGE Pole	#120017381
45	421 Oakdale	PGE Pole	#421
46	2302 Oakwood	PGE Pole	#2302
47	2127 Oakwood	PGE Pole	#2127
48	2364 Oakwood	PGE Pole	#2364
49	2386 Oakwood	PGE Pole	#2386
50	2033 Oakwood	PGE Pole	#2033

### List of Proposed Locations

51	1954 Pulgas	PGE Pole	#1954
52	1944 Pulgas Ave	PGE Pole	#12513
53	1932 Pulgas Ave	PGE Pole	#120017391
54	1922 Pulgas Ave	PGE Pole	#6437
55	1614 Purdue	PGE Pole	#1614
56	2253 Ralmar	PGE Pole	#2253
57	2215 Ralmar	PGE Pole (Tree Trimming)	#2215
58	2151 Ralmar	PGE Pole	#2151
59	2081 Ralmar	PGE Pole	#2081
60	1038 Runnymede	PGE Pole	#1038
61	988 Runnymede	PGE Pole	#120017159
62	1684 Rutgers	New Pole	#1684
63	2231 Terra Villa St	PGE Pole	#2231
64	2213 Terra Villa St	PGE Pole	#2213
65	University at Michigan	PGE Pole	#120169632
66	University overpass- Donohoe to Woodland	12 HPS lights to LED-fixtures only	N/A
67	1121 Westminster	PGE Pole	#120017164
68	1157 Westminster	PGE Pole	#1157
69	1175 Westminster	PGE Pole	#120034503
70	Across 1669 Woodland	PGE Pole	#110502659

# General Lighting Locations Map



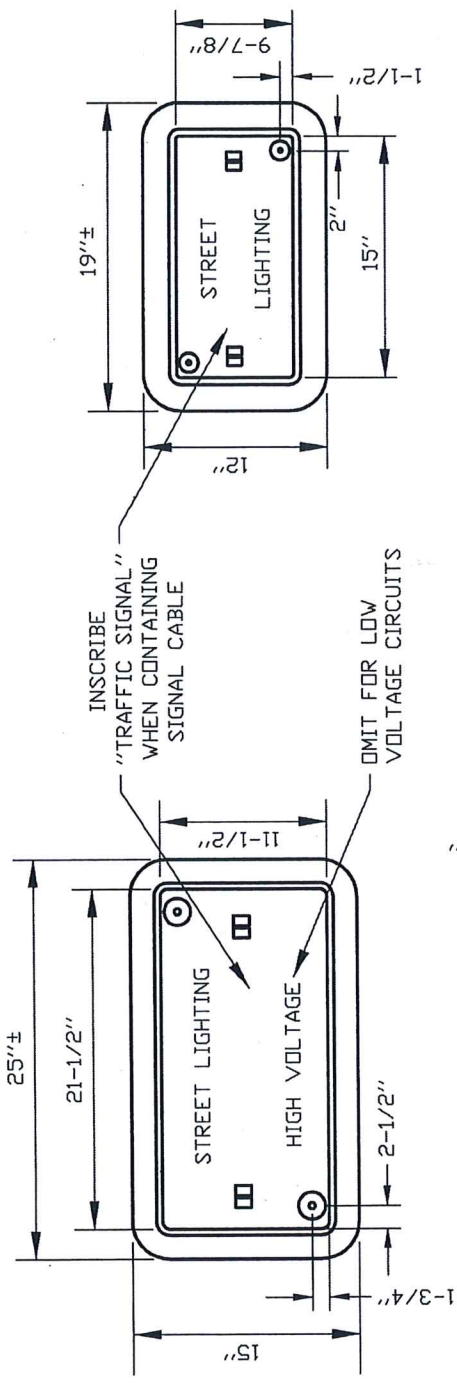
## Legend

- Light on PG&E Pole
- Light on New Pole
- Replace HPS with LED

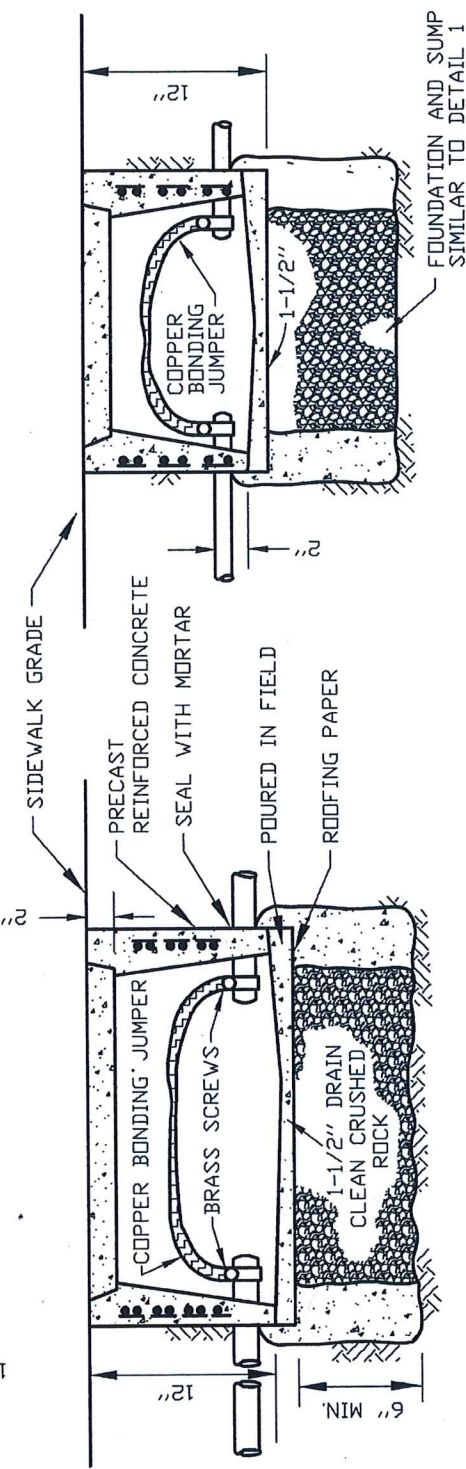
**PART II – TECHNICAL SPECIFICATIONS**

SEE FOLLOWING PAGES





SECTION A-A



NOTE:  
COPPER BONDING JUMPER TO BE USED WITH METALLIC CONDUIT ONLY.

DETAIL NO. 2  
NO. 3-1/2 PULL BOX

DETAIL NO. 1  
NO. 5 PULL BOX



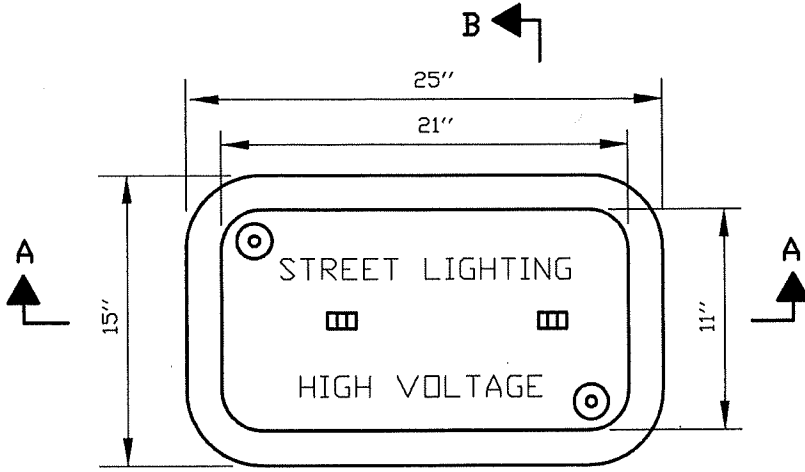
ENGINEERING DEPARTMENT

CALIFORNIA 94403

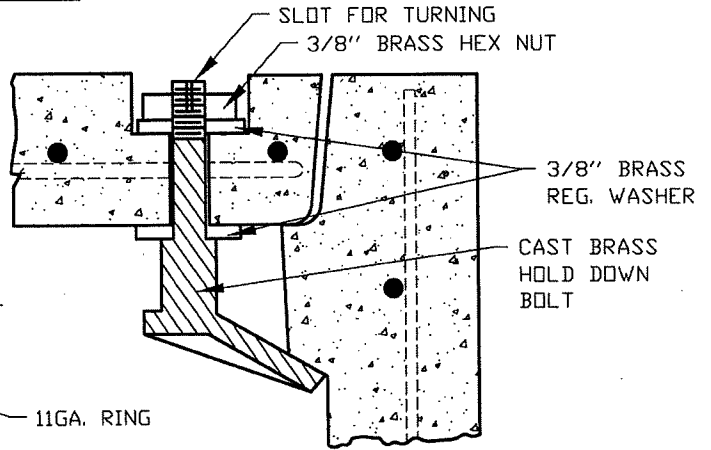
STANDARD PULL BOX INSTALLATION

DATE	DRAWN BY	CHECKED BY	APPROVED	CASE	DRAWER	SET
2002	PC	OC	<i>[Signature]</i> CITY ENGINEER	3	1	165

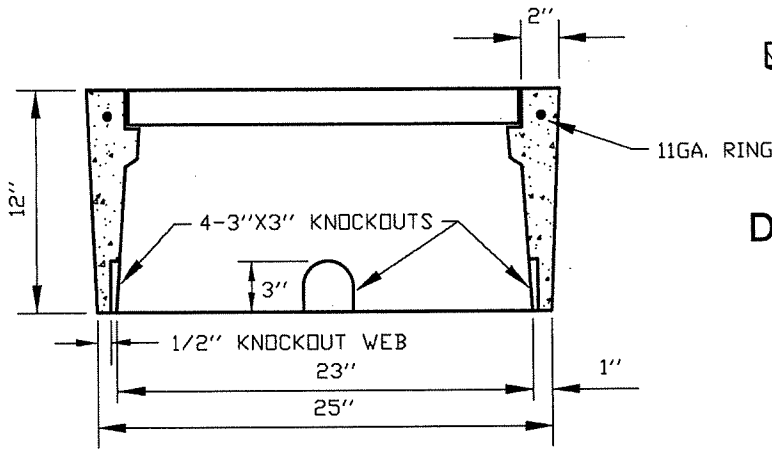




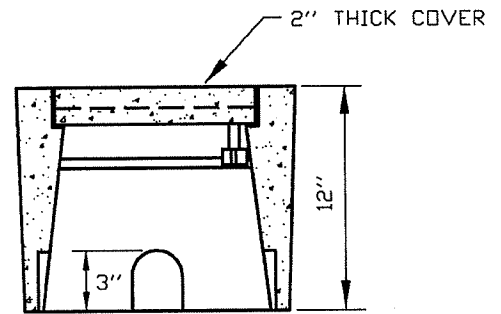
PLAN



DETAIL OF COVER LOCK  
(2 REQ'D.)

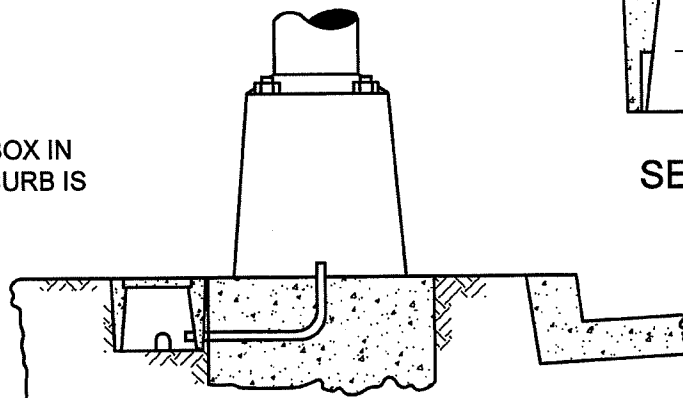


SECTION A-A



SECTION B-B

NOTE:  
LOCATION OF BOX IN  
RELATION TO CURB IS  
VARIABLE.



TYPICAL INSTALLATION

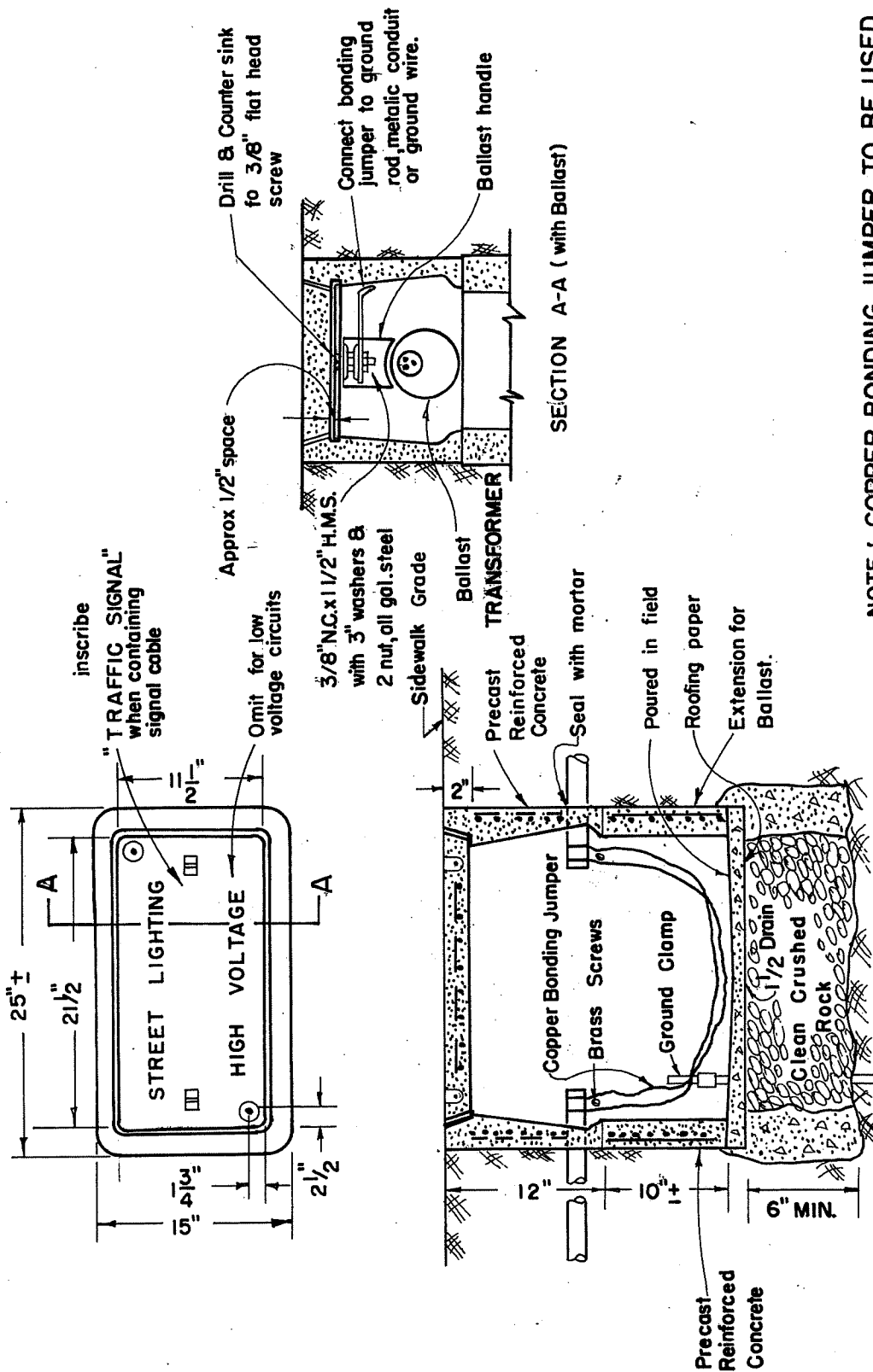


ENGINEERING DEPARTMENT

CALIFORNIA 94403

STANDARD NO. 5 PULL BOX

DATE	DRAWN BY	CHECKED BY	APPROVED	CASE	DRAWER	SET
2002	PC	OC	<i>Mike O'Brien</i> CITY ENGINEER	3	1	166



NOTE: COPPER BONDING JUMPER TO BE USED WITH METALLIC CONDUIT ONLY.

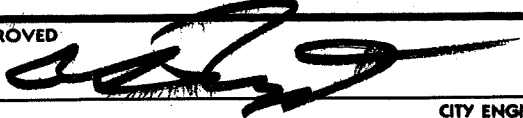
NO. 5 PULL BOX (Extended)

REVISION JUNE 1, 1988

SAN MATEO

STANDARD NO. 5 (EXTENDED)  
PULL BOX INSTALLATION

CALIFORNIA

DATE JAN. 1973	DRAWN BY RUJ	CHK. BY T. T.	APPROVED  CITY ENGINEER	PLAN CASE 3	DRAWER 1	SHEET 167
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Catalog Number	
Notes	Type

## FEATURES & SPECIFICATIONS

### INTENDED USE

For wood poles.

### CONSTRUCTION

**Aluminum:** Body is schedule 10 (T14) or schedule 40 (T20) aluminum pipe 6063-T6. Welding follows industry standards best practices. Arms are pressure-washed after fabrication.

**Steel:** Body is galvanized steel tube (per ASTM A-123) constructed from A500 Grade B steel. Welding follows industry standards best practices. Arms are galvanized after fabrication.

Must specify finish. Optional polyester powder and red primer paint finishes available.

### INSTALLATION

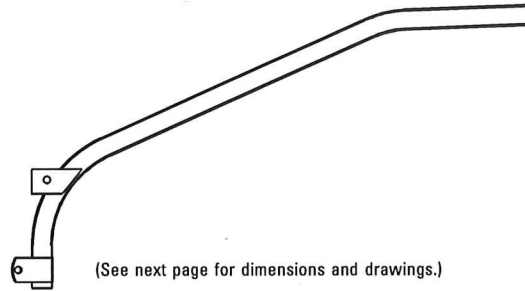
Mounting hardware is not included.

Installer to provide hardware based on pole size and type.

Cantilever Arm

# AMAW/SMAW

ALUMINUM (AMAW) OR STEEL (SMAW)  
CANTILEVER ARM



(See next page for dimensions and drawings.)

## ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: AMAW T20 US4 SA

### AMAW

Series
--------

AMAW  
SMAW

### T20 2-3/8" O.D. (2"NPS)

Pipe size
-----------

T14 1-2/3" O.D. (1-1/4" NPS)  
T20 2-3/8" O.D. (2" NPS)

### 6' Arm Length

Arm length
------------

US2-5 2-1/2' arm length  
US4 4' arm length  
US6 6' arm length<sup>1</sup>  
US8 8' arm length<sup>2</sup>

### Satin Aluminum

Finish <sup>3</sup>
---------------------

#### Standard colors

DDB Dark bronze  
DWH White  
DBL Black  
DNA Natural aluminum  
SA Satin aluminum (AMAW only)  
GALV Galvanized steel (SMAW only)

#### Primer finish

DPRM Red primer

Architectural colors (powder finish)<sup>3</sup>

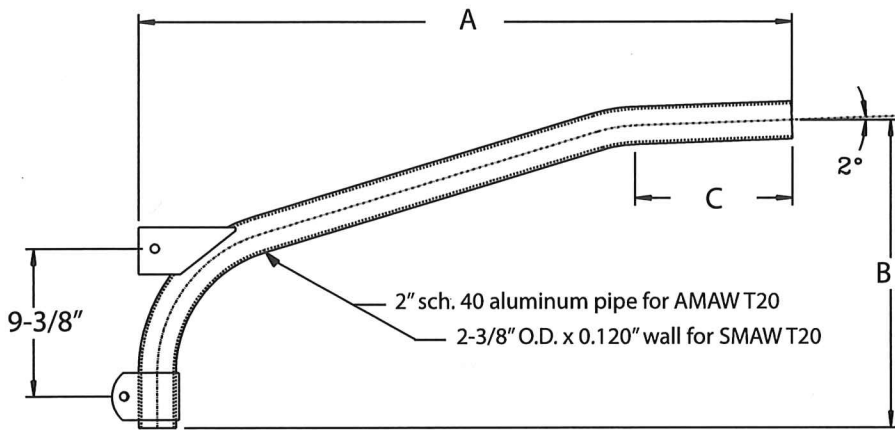
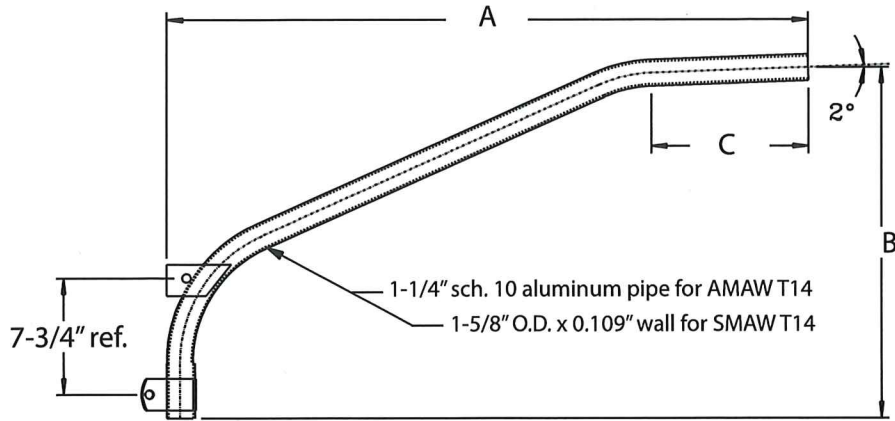
#### NOTES:

1 AMAW T14 utilizes underbrace support.

2 Not available with AMAW T14.

3 Finish must be specified. Additional colors available; see [www.lithonia.com/archcolors](http://www.lithonia.com/archcolors) or the Architectural Colors brochure (Form No. 794.3).

# AMAW & SMAW Aluminum and Steel Cantilever Arm; Wood Poles



## AMAW/SMAW (Cantilever Arm)

Lithonia Lighting Catalog Number	Nominal arm length (ft.)	Dimensions (inches)			Bracket weight (lbs)	Max. fixture EPA ft <sup>2</sup> @ 80 mph w/1.3 gusts	Max. fixture weight (lbs)	ANSI C136.3 (1995) class rating @ 80 mph
		A	B	C				
AMAW T14 US2-5	2-1/2'	30"	15"	12"	3	2.4	35	B
AMAW T14 US4	4'	42"	22"	10"	4	2.4	35	B
AMAW T14 US6	6'	66"	30"	11"	6	2.4	80	-
AMAW T20 US2	2'	24"	12"	10"	5	2.4	80	E
AMAW T20 US2-5	2-1/2'	30"	15"	10"	6	2.4	80	E
AMAW T20 US4	4'	42"	10"	20"	7	2.4	80	E
AMAW T20 US6	6'	66"	26"	12"	10	2.4	80	-
AMAW T20 US8	8'	90"	30"	15"	12	2.4	80	-
SMAW T14 US2	2'	24"	14"	8"	7	2.4	80	E
SMAW T14 US2-5	2-1/2'	30"	15"	10"	9	2.4	80	E
SMAW T14 US4	4'	42"	19"	10"	11	2.4	80	E
SMAW T14 US6	6'	66"	29"	12"	15	2.4	80	E
SMAW T14 US8	8'	90"	30"	15"	20	2.4	50	C
SMAW T20 US2	2'	24"	12"	10"	14	2.4	80	E
SMAW T20 US2-5	2-1/2'	30"	15"	10"	15	2.4	80	E
SMAW T20 US4	4'	42"	19"	10"	18	2.4	80	E
SMAW T20 US6	6'	66"	24"	12"	24	2.4	80	E
SMAW T20 US8	8'	90"	30"	15"	30	2.4	80	E

### IMPORTANT:

- These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

### CAUTION:

- The arms described herein are designed for applications in areas of normal winds. Consult the factory prior to the design of systems to be mounted on structures such as bridges or buildings, or areas known to have abnormal winds such as airports or coastal areas. Failure to consider these factors in the system design could result in the failure of the pole or mast arm, and consequently personal injury or property damage.



# LEDway® Series

LEDway® LED Street Light

## Product Description

Luminaire housing is all aluminum construction. Standard luminaire utilizes 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).

**Applications:** Roadway, parking lots, walkways and general area spaces



## Performance Summary

Patented NanoOptic® Product Technology

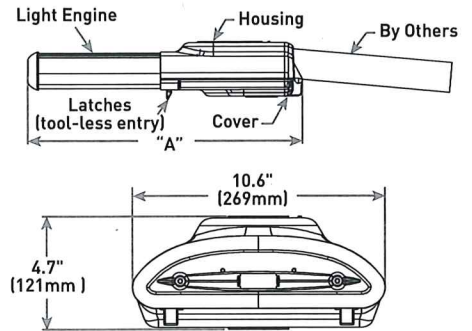
Made in the U.S.A. of U.S. and imported parts

**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		
<b>Bird Spikes for Light Engine</b> XA-BRDSPK30 - 20-30 LED XA-BRDSPK60 - 40-60 LED XA-BRDSPK90 - 70-90 LED XA-BRDSPK120 - 100-120 LED	<b>Bird Spikes for Housing</b> XA-BRDSPKHSG	<b>External Backlight Shield</b> XA-XSLBLS30 - 20-30 LED XA-XSLBLS60 - 40-60 LED XA-XSLBLS90 - 70-90 LED XA-XSLBLS120 - 100-120 LED

LED Count (x10)	Dim. "A"	Weight
02	17.5" (443mm)	13.0 lbs. (5.9kg)
03	17.5" (443mm)	13.5 lbs. (6.1kg)
04	22.0" (559mm)	16.5 lbs. (7.5kg)
05	22.0" (559mm)	17.0 lbs. (7.7kg)
06	22.0" (559mm)	17.5 lbs. (7.9kg)
07	26.8" (681mm)	22.0 lbs. (10.0kg)
08	26.8" (681mm)	22.5 lbs. (10.2kg)
09	26.8" (681mm)	22.5 lbs. (10.2kg)
10	33.1" (842mm)	27.5 lbs. (12.5kg)
11	33.1" (842mm)	28.0 lbs. (12.7kg)
12	33.1" (842mm)	28.0 lbs. (12.7kg)

## Ordering Information

Example: STR-LWY-2M-HT-02-E-UL-SV-700

STR-LWY	2MB	HT	06	E	UL	SV	700	
Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options*	Drive Current	Options
STR-LWY	2M Type II Medium 25 Type II Short 3M Type III Medium 4M Type IV Medium 5M Type V Medium	HT Horizontal Tenon	02 03 04 05 06 07 08 09 10 11 12	E	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver	525 525mA 700 700mA	<b>DIM 0-10V Dimming</b> - Control by others - Refer to <a href="#">Dimming spec sheet</a> for details - Can't exceed specified drive current <b>R NEMA® Photocell Receptacle</b> - 3-pin receptacle per ANSI C136.10 - Intended for downlight applications with maximum 45° tilt - Photocell and shorting cap by others <b>UTL Utility</b> - Includes exterior wattage label that reflects watts for the drive current selected. The ability to exceed selected drive current will be disabled <b>40K 4000K Color Temperature</b> - Minimum 70 CRI - Color temperature per luminaire

\* Light engine portion of extrusion is not painted and will remain natural aluminum regardless of color selection



US: [lighting.cree.com](http://lighting.cree.com)

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

Rev. Date: V4 10/04/2018

Canada: [www.cree.com/canada](http://www.cree.com/canada)



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

# LEDway® LED Street Light

## Product Specifications

### CONSTRUCTION & MATERIALS

- Housing is all aluminum construction
- Terminal block for power input suitable for #2-#14 AWG wire
- HT Mount 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)
- 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, and silver are available
- **Weight:** See Dimensions and Weight chart on page 1

### 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
- 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
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **10V Source Current:** 20-60 LED: 0.15mA; 80-120 LED: 0.30mA

### REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets CALTrans 611 Vibration testing and GR-63-CORE Section 4.4.1/5.4.2 Earthquake Zone 4
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10K surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- Meets FCC Part 15 standards for conducted and radiated emissions
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

Electrical Data*								
LED Count (x10)	System Watts 120-277V	System Watts 347-480V	Total Current (A)					
			120V	208V	240V	277V	347V	480V
<b>525mA</b>								
02	35	39	0.30	0.18	0.16	0.15	0.12	0.10
03	53	55	0.45	0.26	0.23	0.21	0.16	0.13
04	66	71	0.56	0.33	0.29	0.26	0.21	0.16
05	86	87	0.72	0.42	0.37	0.33	0.25	0.19
06	100	103	0.84	0.49	0.43	0.38	0.30	0.22
07	120	124	1.01	0.60	0.54	0.49	0.37	0.28
08	139	140	1.17	0.69	0.62	0.56	0.41	0.31
09	149	156	1.26	0.74	0.66	0.59	0.46	0.34
10	167	172	1.41	0.83	0.73	0.65	0.50	0.38
11	182	188	1.54	0.89	0.79	0.70	0.55	0.41
12	197	204	1.67	0.96	0.85	0.75	0.59	0.44
<b>700mA</b>								
02	47	51	0.39	0.23	0.21	0.19	0.15	0.12
03	70	73	0.59	0.34	0.30	0.27	0.21	0.16
04	91	93	0.77	0.45	0.39	0.35	0.27	0.20
05	113	115	0.96	0.55	0.48	0.43	0.33	0.25
06	134	135	1.13	0.65	0.57	0.50	0.39	0.29
07	163	165	1.37	0.80	0.71	0.63	0.48	0.36
08	182	186	1.54	0.90	0.79	0.70	0.54	0.40
09	203	207	1.72	0.99	0.87	0.78	0.60	0.45
10	227	229	1.92	1.11	0.97	0.86	0.67	0.49
11	248	250	2.10	1.21	1.05	0.93	0.73	0.53
12	267	274	2.26	1.30	1.13	1.00	0.80	0.58

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

Cree LEDway® Ambient Adjusted Lumen Maintenance <sup>1</sup>					
Ambient	Initial LMF	25K hr Projected <sup>2</sup> LMF	50K hr Projected <sup>2</sup> LMF	75K hr Calculated <sup>3</sup> LMF	100K hr Calculated <sup>3</sup> 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

<sup>1</sup> Lumen maintenance values at 25°C 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

<sup>2</sup> 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

<sup>3</sup> 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

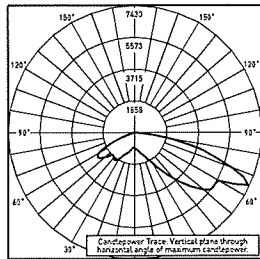


LEDway® LED Street Light

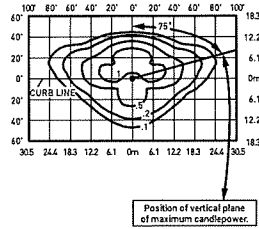
Photometry

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-series>

2M



CESTL Test Report #: 2015-0025  
STR-LWY-2M-\*\*-06-E-UL-700-40K  
Initial Delivered Lumens: 10,706



STR-LWY-2M-\*\*-03-E-UL-700-40K  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 5,688  
Initial FC at grade

Type II Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>525mA</b>				
02	3,064	B1 U0 G1	3,182	B1 U0 G1
03	4,550	B1 U0 G1	4,725	B1 U0 G1
04	6,079	B2 U0 G2	6,313	B2 U0 G2
05	7,549	B2 U0 G2	7,839	B2 U0 G2
06	9,000	B2 U0 G2	9,346	B2 U0 G2
07	10,532	B2 U0 G2	10,937	B2 U0 G2
08	11,982	B3 U0 G3	12,443	B3 U0 G3
09	13,419	B3 U0 G3	13,935	B3 U0 G3
10	14,994	B3 U0 G3	15,571	B3 U0 G3
11	16,440	B3 U0 G3	17,072	B3 U0 G3
12	17,880	B3 U0 G3	18,568	B3 U0 G3
<b>700mA</b>				
02	3,830	B1 U0 G1	3,977	B1 U0 G1
03	5,688	B2 U0 G2	5,907	B2 U0 G2
04	7,598	B2 U0 G2	7,891	B2 U0 G2
05	9,436	B2 U0 G2	9,799	B2 U0 G2
06	11,250	B3 U0 G3	11,683	B3 U0 G3
07	13,165	B3 U0 G3	13,671	B3 U0 G3
08	14,978	B3 U0 G3	15,554	B3 U0 G3
09	16,774	B3 U0 G3	17,419	B3 U0 G3
10	18,742	B3 U0 G3	19,463	B3 U0 G3
11	20,550	B3 U0 G3	21,340	B3 U0 G3
12	22,351	B3 U0 G3	23,210	B3 U0 G3

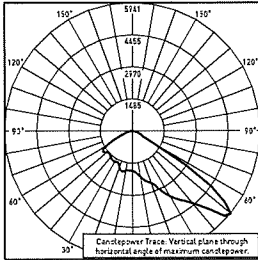
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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

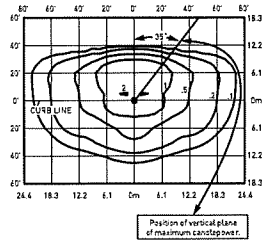
**Photometry**

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/street-and-roadway/ledway-series>

25



CESTL Test Report #: 2013-0072  
 STR-LWY-2S-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 12,087



STR-LWY-2S-\*\*-03-E-UL-700  
 Mounting Height: 25' [7.6m] A.F.G.  
 Initial Delivered Lumens: 6,290  
 Initial FC at grade

Type II Short Distribution				
LED Count [x10]	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>525mA</b>				
02	3,263	B1 U0 G1	3,388	B1 U0 G1
03	4,846	B2 U0 G2	5,032	B2 U0 G2
04	6,473	B2 U0 G2	6,722	B2 U0 G2
05	8,039	B2 U0 G2	8,348	B2 U0 G2
06	9,585	B3 U0 G3	9,953	B3 U0 G3
07	11,216	B3 U0 G3	11,647	B3 U0 G3
08	12,760	B3 U0 G3	13,251	B3 U0 G3
09	14,290	B3 U0 G3	14,840	B3 U0 G3
10	15,967	B3 U0 G3	16,582	B3 U0 G3
11	17,508	B3 U0 G3	18,181	B3 U0 G3
12	19,042	B3 U0 G3	19,774	B3 U0 G3
<b>700mA</b>				
02	4,079	B1 U0 G1	4,235	B1 U0 G1
03	6,057	B2 U0 G2	6,290	B2 U0 G2
04	8,092	B2 U0 G2	8,403	B2 U0 G2
05	10,048	B3 U0 G3	10,435	B3 U0 G3
06	11,981	B3 U0 G3	12,442	B3 U0 G3
07	14,020	B3 U0 G3	14,559	B3 U0 G3
08	15,950	B3 U0 G3	16,564	B3 U0 G3
09	17,863	B3 U0 G3	18,550	B3 U0 G3
10	19,959	B3 U0 G3	20,727	B3 U0 G3
11	21,884	B3 U0 G3	22,726	B3 U0 G3
12	23,802	B3 U0 G3	24,717	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: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>.



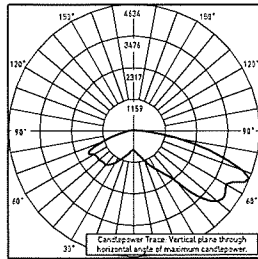


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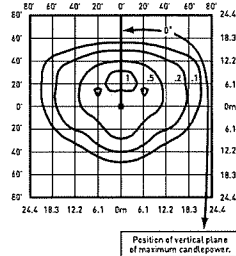
**Photometry**

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3M



CESTL Test Report #: 2013-0068  
STR-LWY-3M-\*\*-06-E-UL-700-40K  
Initial Delivered Lumens: 10,430



STR-LWY-3M-\*\*-03-E-UL-700  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 5,600  
Initial FC at grade

Type III Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>525mA</b>				
02	2,905	B1 U0 G1	3,016	B1 U0 G1
03	4,314	B1 U0 G1	4,480	B1 U0 G1
04	5,763	B2 U0 G2	5,985	B2 U0 G2
05	7,156	B2 U0 G2	7,432	B2 U0 G2
06	8,533	B2 U0 G2	8,861	B2 U0 G2
07	9,985	B3 U0 G3	10,369	B3 U0 G3
08	11,360	B3 U0 G3	11,797	B3 U0 G3
09	12,722	B3 U0 G3	13,211	B3 U0 G3
10	14,215	B3 U0 G3	14,762	B3 U0 G3
11	15,586	B3 U0 G3	16,185	B3 U0 G3
12	16,952	B3 U0 G3	17,604	B3 U0 G3
<b>700mA</b>				
02	3,631	B1 U0 G1	3,771	B1 U0 G1
03	5,392	B2 U0 G2	5,600	B2 U0 G2
04	7,204	B2 U0 G2	7,481	B2 U0 G2
05	8,945	B2 U0 G2	9,290	B3 U0 G3
06	10,666	B3 U0 G3	11,076	B3 U0 G3
07	12,481	B3 U0 G3	12,961	B3 U0 G3
08	14,200	B3 U0 G3	14,746	B3 U0 G3
09	15,902	B3 U0 G3	16,514	B3 U0 G3
10	17,769	B3 U0 G3	18,452	B3 U0 G3
11	19,483	B3 U0 G3	20,232	B3 U0 G3
12	21,190	B3 U0 G3	22,004	B3 U0 G3

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

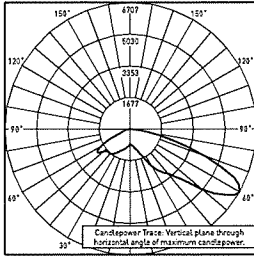
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

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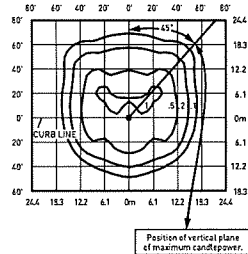
Photometry

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-series>

4M



CESTL Test Report #: 2013-0028  
 STR-LWY-4M-\*\*-06-E-UL-700-40K  
 Initial Delivered Lumens: 11,036



STR-LWY-4M-\*\*-03-E-UL-700  
 Mounting Height: 25' (7.6m) A.F.G.  
 Initial Delivered Lumens: 5,907  
 Initial FC at grade

Type IV Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>525mA</b>				
02	3,064	B1 U0 G1	3,182	B1 U0 G1
03	4,550	B2 U0 G1	4,725	B2 U0 G1
04	6,079	B2 U0 G1	6,313	B2 U0 G1
05	7,549	B2 U0 G2	7,839	B2 U0 G2
06	9,000	B2 U0 G2	9,346	B2 U0 G2
07	10,532	B2 U0 G2	10,937	B2 U0 G2
08	11,982	B3 U0 G2	12,443	B3 U0 G2
09	13,419	B3 U0 G3	13,935	B3 U0 G3
10	14,994	B3 U0 G3	15,571	B3 U0 G3
11	16,440	B3 U0 G3	17,072	B3 U0 G3
12	17,880	B3 U0 G3	18,568	B3 U0 G3
<b>700mA</b>				
02	3,830	B1 U0 G1	3,977	B1 U0 G1
03	5,688	B2 U0 G1	5,907	B2 U0 G1
04	7,598	B2 U0 G2	7,891	B2 U0 G2
05	9,436	B2 U0 G2	9,799	B2 U0 G2
06	11,250	B2 U0 G2	11,683	B3 U0 G2
07	13,165	B3 U0 G3	13,671	B3 U0 G3
08	14,978	B3 U0 G3	15,554	B3 U0 G3
09	16,774	B3 U0 G3	17,419	B3 U0 G3
10	18,742	B3 U0 G3	19,463	B3 U0 G3
11	20,550	B3 U0 G3	21,340	B3 U0 G3
12	22,351	B3 U0 G3	23,210	B4 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>

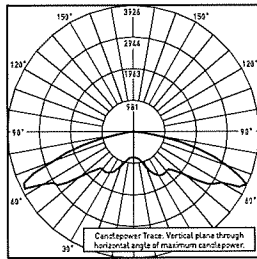


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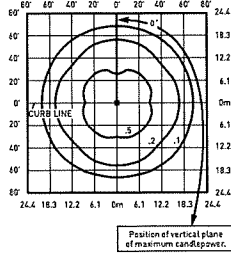
**Photometry**

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5M



CESTL Test Report #: 2013-0019  
STR-LWY-5M-\*\*-06-E-UL-700-40K  
Initial Delivered Lumens: 11,633



STR-LWY-5M-\*\*-03-E-UL-700  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 6,214  
Initial FC at grade

Type V Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
<b>525mA</b>				
02	3,223	B2 U0 G1	3,347	B2 U0 G1
03	4,787	B3 U0 G1	4,971	B3 U0 G1
04	6,395	B3 U0 G2	6,640	B3 U0 G2
05	7,941	B3 U0 G2	8,246	B3 U0 G2
06	9,468	B3 U0 G2	9,832	B3 U0 G2
07	11,079	B4 U0 G2	11,505	B4 U0 G2
08	12,605	B4 U0 G2	13,089	B4 U0 G2
09	14,116	B4 U0 G3	14,659	B4 U0 G3
10	15,773	B4 U0 G3	16,379	B4 U0 G3
11	17,294	B4 U0 G3	17,959	B4 U0 G3
12	18,809	B4 U0 G3	19,533	B4 U0 G3
<b>700mA</b>				
02	4,029	B2 U0 G1	4,184	B2 U0 G1
03	5,983	B3 U0 G2	6,214	B3 U0 G2
04	7,993	B3 U0 G2	8,301	B3 U0 G2
05	9,926	B3 U0 G2	10,308	B3 U0 G2
06	11,835	B4 U0 G2	12,290	B4 U0 G2
07	13,849	B4 U0 G3	14,381	B4 U0 G3
08	15,756	B4 U0 G3	16,362	B4 U0 G3
09	17,645	B4 U0 G3	18,324	B4 U0 G3
10	19,716	B4 U0 G3	20,474	B4 U0 G3
11	21,618	B4 U0 G3	22,449	B5 U0 G3
12	23,512	B5 U0 G3	24,416	B5 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>.

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**Luminaire EPA**

<b>Horizontal Tenon Mount</b>							
LED Count (x10)	1 Luminaire	Single	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
	Horizontal Tenon Mount	Round External Mount / Square Internal Mount Horizontal Tenons with Luminaires					
		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)
20-30	0.57	0.79	1.02	1.35	1.53	1.38	1.94
40-60	0.69	0.91	1.19	1.59	1.774	1.59	2.18
70-90	0.71	0.93	1.27	1.75	1.93	0.71	2.34
100-120	0.80	1.04	1.38	1.86	2.04	1.82	2.45

**Tenon EPA**

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.07

<b>Tenons and Brackets* (must specify color)</b>	
<b>Square Internal Mount Horizontal Tenons (Aluminum)</b> - 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	<b>Round External Mount Horizontal Tenons (Aluminum)</b> - Mounts to 2.375" (60mm) 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
<b>Wall Mount Brackets</b> - Mounts to wall or roof WM-2L - Standard	<b>Direct Arm Pole Adaptor Bracket</b> - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8

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



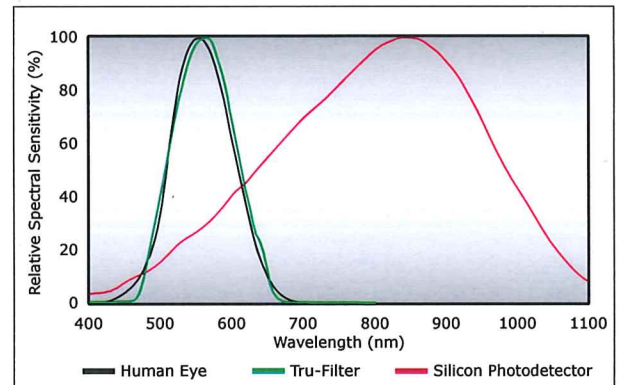
## Twist-Lock Electronic Photocontrol **Tru-Filter®**



### Ripley's line-up of exclusive **Tru-Filter® InfraRed Filtering Photocontrols**

- Greater control
- Greater accuracy
- Overall energy savings

A single infrared-filtering phototransistor in each Tru-Filter® photocontrol, **filters out all sources of infrared** to mirror the spectral sensitivity of the human eye, and provide highly accurate control across the entire visual light spectrum.



**Tru-Filter® spectral sensitivity matches that of the Human Eye; while competitor's Silicon Photodetector comes nowhere close.**

With True Filter®, Turn-ON / Turn-OFF events occur with much greater precision than that of competitor models utilizing silicon photodetectors and plastic infrared filters.

Plastic filters used by competitors only filter infrared that passes through the sensor window, not ALL sources—they eventually cause a shift of Turn-ON / Turn-OFF light levels—they fade over time due to UV

#### **Other Exclusive Features:**

Double-Sided Plated-Through Circuit Board (DSPT) for durability and reliability, Quad-Gate Technology for precision and consistency, Full Wave Rectification, Dual Zener Diodes, High Impact Thermoplastic Base, Solid Brass Contact Blades, UV Stabilized Permanent Color, High Impact Resistant Polypropylene Cover

TruFilter® models are available for 60 Hz Nominal Voltage applications, including: Multi-volt (120/208/240/277), 120 Volt, 240 Volt, 480 Volt, and 347 Volt

Refer to following page for specifications

Meets or exceeds rigid quality requirements of SouthConn Technologies Inc. and applicable ANSI C136.10, and C136.24 and C136.41

WARRANTY: 8 years from date of manufacture

Phone: 803-939-4700  
Fax: 803-939-4777  
E-mail: Sales@RipleyLC.com

[www.RipleyLC.com](http://www.RipleyLC.com)

PS-6100-046  
Tru-Filter Overview  
020616  
Rev. 2





Twist-Lock Electronic Photocontrol  
**Tru-Filter®** Model Selection



**Tru-Filter® InfraRed-Filtering Photocontrols**

**Model Selection**



	<b>6390TF</b>	<b>6246TF</b>	<b>6372TF</b>	<b>6394TF</b>	<b>6395TF</b>
Nominal Voltage 60 Hz	120/208/240/277	120	240	480	347
Voltage Range	105—305	105—135	200—300	432-528	312-382
Fail Mode	On (contacts normally closed)				
Load Rating	1000 Watt Tungsten / 1800 VA Ballast				
Operating Temperature	-40C to +70C (-40F to +158F)				
Photocell	Infrared Filtering Silicon Phototransistor *				
Dielectric Strength	5000 Volts between current carrying parts and metal surfaces				
Surge Protection	320 Joule MOV 10,000 amp surge current			530 Joule MOV 10,000 amp surge current	
Power Consumption	0.5 watts @ 120 V				
Time Delay Off (Instant On)	3 to 5 seconds				
Operating Light Levels (Standard Settings)	Turn On 1.5 FC ± .25 / Turn Off by 2.25 FC / (Off:On Ratio = 1.5:1)				
High Impact / High Temperature Thermoplastic Base Temperature Rating	125° C				
ANSI Color Coded Cover	Blue	Gray	Maroon	Yellow	Green
Options	Option Code 1 (Add to end of Model Number)				
430 Joule MOV / 13,000 amp	-X	-X	-X	N/A	N/A
Fail Off	-FO(Green)	-FO	-FO	N/A	N/A
ANSI Color Coded Cap Options	Option Code 2 (Add to end of Model Number, after Option Code 1)				
Green	-GN	-GN	-GN	N/A	N/A
Black	-BK	-BK	-BK	N/A	N/A
Brown	-BN	-BN	-BN	N/A	N/A
Orange	-ORN	-ORN	-ORN	N/A	N/A
Operating Light Levels Option	Option Code 3 (Add to end of Model Number, after Option Code 2)				
Denotes Turn On point in FC	Specify 0.3—5.0 FC (with Windows)				
Applicable with					

\* Premire Units are not Recommended or designed for LED Application  
 WARRANTY: 8 years from date of manufacture

Phone: 803-939-4700  
 Fax: 803-939-4777  
 E-mail: Sales@RipleyLC.com

[www.RipleyLC.com](http://www.RipleyLC.com)

PS-6100-047  
 Tru-Filter Models  
 020616  
 Rev. 5

