



Sonoma Bay Community Homeowners Association, Inc.

FPL LED Fixture and Street Light Pole – Common Replacement Solutions

11.05.20

Option #1 – Columbia Concrete Pole & Holophane Bern LED

- **Pole:**
 - Type: Black Columbia Concrete
 - Mounting height: 15'9"
- **LED Fixture:**
 - Name: Holophane Bern
 - Wattage: 58
 - Color temperature: 4,000
 - Lumens: 6,808
- **Notes:**
 - Pendant mounted LED fixture suspended by 6' decorative bracket arm



Option #2 – Washington Concrete Pole & Holophane Granville LED

- **Pole:**
 - Type: Black Washington Concrete
 - Mounting height: 14'6"
- **LED Fixture:**
 - Name: Holophane Granville
 - Wattage: 51
 - Color temperature: 3,000 / 5,000
 - Lumens: 7,216 / 7,484
- **Notes:**
 - Ability to consider dual fixtures on poles at entrance/clubhouse and single fixtures on poles throughout community



Option #3 – Tapered Concrete Pole & Cooper Mesa LED

- **Pole:**
 - Type: Black Tapered Concrete
 - Mounting height: 10' / 15' 6"
- **LED Fixture:**
 - Name: Cooper Mesa
 - Wattage: 75 / 150
 - Color temperature: 4,000
 - Lumens: 7,456 / 14,911
- **Notes:**
 - Modern style LED solution
 - Higher wattage option available for entrance



Option #4 – Tapered Concrete Pole & Cooper Galleon LED

- **Pole:**
 - Type: Black Tapered Concrete
 - Mounting height: 10' / 15' 6"
- **LED Fixture:**
 - Name: Cooper Galleon
 - Wattage: 113
 - Color temperature: 4,000
 - Lumens: 12,336
- **Notes:**
 - Area lighting LED designed for parking lots
 - Ability to consider dual fixtures on poles at entrance/clubhouse and single fixtures on poles throughout community

Black Tapered
Concrete

8

Tenon Mount
14'6" (10' MH)
21'(15'6" MH)

Available in black,
or gray or bronze



Cooper – Galleon

Option #5 – Standard Concrete Pole & Cooper Galleon LED

- **Pole:**
 - Type: Standard Concrete
 - Mounting height: 13'
- **LED Fixture:**
 - Name: Cooper Galleon
 - Wattage: 113
 - Color temperature: 4,000
 - Lumens: 12,336
- **Notes:**
 - Area lighting LED designed for parking lots
 - Ability to consider dual fixtures on poles at entrance/clubhouse and single fixtures on poles throughout community



Option #6 – Standard Fiberglass Pole & GE Traditional Carriage LED

- **Pole:**
 - Type: Standard fiberglass
 - Mounting height: 10' / 15' 6"
- **LED Fixture:**
 - Name: GE Traditional Carriage
 - Wattage: 73
 - Color temperature: 3,000 / 4,000
 - Lumens:
 - With panels: 6,450 / 6,750
 - Without panels: 7,425 / 7,660
- **Notes:**
 - Most cost effective solution

Standard Black
Fiberglass

2

Tenon Mount
13' (10' MH)
20' (15'6" MH)



GE – Traditional Carriage (Town & Country) – No Side Panels



GE – Traditional Carriage (Town & Country) – W/Side Panels

Monthly Costs for Proposed LED Replacement Solutions

LED Solution Option #:	Monthly Cost Following Installation: • Cost for 46 x installation locations • Replacement of 44 x existing street lights and replacement of 2 x missing locations
Option #1	\$2,224.59
Option #2	\$1,394.51
Option #3	\$1,412.01
Option #4	\$1,167.88
Option #5	\$826.56
Option #6	\$715.91

Monthly Cost for Existing Street Lights (Account: 31246-25371)
\$813.94



LED Lighting Solutions



Roadway Lighting | Area Lighting | Pendant Lighting | Post Top Lighting | Brackets and Poles

Safer. Smarter. More Vibrant Spaces.



FPL®

LED Lighting Solutions

Roadway Lighting

Feel Safe, Drive Safe



Shield facing coastal line

**Cree – RSW Large and Extra-large
Turtle-friendly Amber**



Cree – RSW



Cree – XSPM



AEL – ATBS



AEL – ATBM and ATBL



Available in black,
bronze, or gray

AEL – ATB2

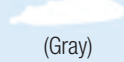
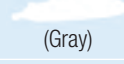
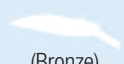
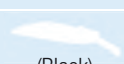


Cooper – Verdeon M



Cooper – Verdeon M

ROADWAY LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
Cree	RSW Large and Extra-large Turtle-friendly Amber	 (Gray) shield facing coastal line	6, 7	1	3	92/90	594nM (Amber)	3,715	B3-U0-G3	PL 14092-001A RSWL - TRL AID FnRpt.ies	F5
			6, 7	1	3	144/140	594nM (Amber)	5,300	B1-U0-G2	PL15098-001A RSWX-A-HT-3ME-32L-TRL-UL-GY-N AID FnRpt.ies	I5
	RSW	 (Gray)	6, 7	1	3	28/30	3000K	3,300	B1-U0-G1	RSWS-3ME-3L-30K7.ies	B2
			6, 7	1	3	26/30	4000K	3,300	B1-U0-G1	RSWS-3ME-3L-40K7 CONFIGURED.ies	B2
			6, 7	1	3	45/50	3000K	5,000	B1-U0-G1	RSWS-3ME-5L-30K7 CONFIGURED.ies	C2
			6, 7	1	3	41/40	4000K	5,000	B1-U0-G1	RSWS-3ME-5L-40K7 CONFIGURED.ies	C2
	XSPM	 (Gray)	6, 7	1	3	95/100	4000K	12,000	B2-U0-G2	XSPMD-D-HT-3ME-12L-40K7-UL-SV-N-DAL_PL14275-001A.ies	G3
AEL	ATBS	 (Gray)	6, 7	1	2	40/40	4000K	4,770	B1-U0-G1	ATBS_E_XXXXX_R2.ies	C2
			6, 7	1	2	47/50	4000K	5,392	B1-U0-G1	ATBS_F_XXXXX_R2.ies	C2
			6, 7	1	2	76/80	3000K	8,212	B2-U0-G2	ATBS_I_XXXXX_R2_3K_DALI.ies	E2
			6, 7	1	2	76/80	4000K	8,653	B2-U0-G2	ATBS_I_XXXXX_R2.ies	E2
	ATBM	 (Gray)	6, 7	1	3	118/120	4000K	15,453	B2-U0-G3	ATBM_P30_XXXXX_R3_4K_5K.ies	G2
	ATBL	 (Gray)	6, 7	1	3	259/260	4000K	28,091	B3-U0-G5	ATBL_F_XXXXX_R3.ies	O4
	ATB2	 (Gray)	6, 7	1	4	133/130	3000K	15,627	B2-U0-G3	ATB2_40BLEDE10_XXXXX_R4_3K_DALI.ies	H3
			6, 7	1	4	133/130	4000K	16,593	B2-U0-G3	ATB2_40BLEDE10_XXXXX_R4_4K_5K.ies	H3
			6, 7	1	4	268/270	3000K	30,644	B3-U0-G5	ATB2_80BLEDE10_XXXXX_R4_3K_DALI.ies	O5
			6, 7	1	4	268/270	4000K	32,329	B3-U0-G5	ATB2_80BLEDE10_XXXXX_R4.ies	O5
		 (Bronze)	6, 7	Hybrid only	4	133/130	4000K	16,593	B2-U0-G3	ATB2_40BLEDE10_XXXXX_R4_4K_5K.ies	H3
			6, 7	Hybrid only	4	268/270	4000K	32,329	B3-U0-G5	AATB2_80BLEDE10_XXXXX_R4.ies	O5
		 (Black)	4, 6, 7	2	4	133/130	4000K	16,593	B2-U0-G3	ATB2_40BLEDE10_XXXXX_R4_4K_5K.ies	H3
4, 6, 7			2	4	268/270	4000K	32,329	B3-U0-G5	ATB2_80BLEDE10_XXXXX_R4.ies	O5	
Cooper	Verdeon M	 (Gray)	6, 7	1	3	182/180	4000K	22,236	B3-U0-G3	VERD-M-A03-E-U-T3-AP.ies	K4
	Verdeon M	 (Gray)	6, 7	1	3	247/250	4000K	29,537	B3-U0-G4	VERD-M-A04-E-U-T3-AP.ies	N4

Note: All roadway fixtures are grey unless otherwise noted



Area Lighting

Inspiring Illumination

Available in black,
or gray or bronze



Cooper – Galleon



Cooper – UFLD

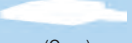
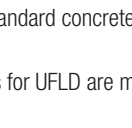


Cooper – UFLD



Cooper – UFLD

AREA LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
Cooper	Galleon		1, 4, 8*	5	4	113/110	4000K	12,336	B2-U0-G3	GAP-AF-02-LED-U-T4W.ies	G3
		(Black)	1,4*	5	4	225/230	4000K	23,844	B3-U0-G4	GAN-AF-04-LED-U-T4W.ies	M4
			1,4*	5	4	445/450	4000K	47,372	B4-U0-G5	GAN-AF-08-LED-U-T4W.ies	Y6
		(Gray)	1,4*	5	4	445/450	4000K	47,372	B4-U0-G5	GAN-AF-08-LED-U-T4W.ies	Y6
			1,4*	5	4	558/560	4000K	58,506	B4-U0-G5	GAN-AF-10-LED-U-T4W.ies	EE7
		(Bronze)	1,4*	5	4	558/560	4000K	58,506	B4-U0-G5	GAN-AF-10-LED-U-T4W.ies	EE7
Cooper	UFLD		6, 7	24" stand-off (2DS)	6x6	51/50	4000K	5,976	B2-U0-G1	UFLD-S-C15-X-U-66.ies	D3
			6, 7	24" stand-off (2DS)	6x6	85/90	4000K	10,530	B3-U0-G1	UFLD-C25-X-U-66.ies	F3
			6, 7	24" stand-off (2DS)	6x6	184/180	4000K	23,797	B4-U0-G2	UFLD-C70-X-U-66.ies	K4
			6, 7	24" stand-off (2DS)	6x6	371/370	4000K	48,028	B5-U0-G3	UFLD-L-C175-X-U-66.ies	U5

* = 20' (13' MH) Standard concrete pole for 113W only.
 = 35' (27'6" MH) Standard concrete pole applicable to all.

Note: Glare (BUG) Ratings for UFLD are measured at 0° tilt.



FPL®

LED Lighting Solutions

Pendant Lighting

Functional Can Be Beautiful



Holophane – Bern



Holophane – Teardrop with deep skirt



Holophane – Teardrop (Memphis)

Turtle-friendly amber



Holophane – Bern

PENDANT LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
Holophane	Bern		3, 4	3	3	58/60	4000K	6,808	B1-U0-G2	ISF 31451P5 GBLF2 P20 40K XX X X L3.ies	D11
		 (Turtle-friendly amber)	3, 4	3	3	56/60	Amber	1,934	B1-U0-G0	Upon Request	D11
	Teardrop w/deep skirt	 (Black)	3, 4	3	3	144/140	4000K	11,384	B3-U0-G3	ISF 36774P15 ES2 P35S 40K XX SG 3 DS.ies	I11
	Teardrop (Memphis)	 (Black)	3, 4	3	3	144/140	4000K	15,375	B2-U3-G4	ISF 33920P15 ES2 P35S 40K XX TG 3.ies	I10



Post Top Lighting

Making a Great First Impression



AEL – Contemporary
(Contempo)



Cooper – Mesa



GE – EPTC



GE – Traditional Carriage (Town & Country) – No Side Panels



GE – Traditional Carriage (Town & Country) – W/Side Panels



Black/Black

Holophane – Granville



Clear/Black

Holophane – Granville



Green/Green

Holophane – Granville

POST TOP LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
AEL	Contemporary (Contempo)	 (Grey)	1 (20'), 2, 8	NA	3	38/40	3000K	3,358	B1-U3-G2	245L_P30_XX_30K_R3_RNA_FPD95.ies	C2
			1 (20'), 2, 8	NA	3	72/70	3000K	6,385	B2-U3-G2	245L_P55_XX_30K_R3_RNA_FPD95_Special.ies	E2
			1 (20'), 2, 8	NA	3	38/40	4000K	3,615	B1-U3-G2	245L_P30_XX_40K_R3_RNA_FPD95.ies	C2
			1 (20'), 2, 8	NA	3	72/70	4000K	6,874	B2-U3-G2	245L_P55_XX_40K_R3_RNA_FPD95_Special.ies	E2
Cooper	Mesa	 (Black)	1 (20'), 2, 5, 8	NA	3	75/80	4000K	7,456	B2-U0-G2	PMM-E03-LED-E-U-T3.ies	E5
			1 (20'), 2, 5, 8	NA	3	150/150	4000K	14,911	B3-U0-G3	PMM-E06-LED-E-U-T3.ies	I6
GE	EPTC	 (Black)	1 (20'), 2, 8	NA	5	65/70	4000K	7,300	B3-U0-G1	eptc02_07A40_____.ies	D4
	Traditional Carriage (Town & Country) - No Side Panels	 (Black)	1 (20'), 2, 8	NA	3	39/40	3000K	4,090	B1-U0-G2	EPTT01_F4BN30_____-120-277V.IES	C2
			1 (20'), 2, 8	NA	3	39/40	4000K	4,110	B2-U0-G2	EPTT01_F4BN40_____-120-277V.IES	C2
			1 (20'), 2, 8	NA	3	73/70	3000K	7,425	B1-U0-G2	EPTT01_F7DN30_____-120-277V.IES	E2
			1 (20'), 2, 8	NA	3	73/70	4000K	7,660	B2-U0-G2	EPTT01_F7DN40_____-120-277V.IES	E2
	Traditional Carriage (Town & Country) - W/Side Panels	 (Black)	1 (20'), 2, 8	NA	3	39/40	3000K	3,500	B1-U3-G3	EPTT01_F4BA30_____-120-277V.IES	C2
			1 (20'), 2, 8	NA	3	39/40	4000K	3,600	B1-U3-G3	EPTT01_F4BA40_____-120-277V.IES	C2
			1 (20'), 2, 8	NA	3	73/70	3000K	6,450	B1-U4-G3	EPTT01_F7DA30_____-120-277V.IES	E2
			1 (20'), 2, 8	NA	3	73/70	4000K	6,750	B1-U4-G3	EPTT01_F7DA40_____-120-277V.IES	E2
Holophane	Granville	 Black/Black	1, 5, 8*	NA or 4	3	37/40	3000K	4,704	B2-U3-G4	ISF 193553P6 GVD3 P20 30K XXXX GL3LU.ies	C5
			1, 5, 8*	NA or 4	3	37/40	5000K	5,075	B2-U3-G4	ISF 193553P8 GVD3 P20 50K XXXX GL3LU.ies	C5
			1, 5, 8*	NA or 4	3	51/50	3000K	7,216	B2-U4-G5	ISF 193553P10 GVD3 P30 30K XXXX GL3LU.ies	D5
			1, 5, 8*	NA or 4	3	51/50	5000K	7,484	B2-U4-G5	ISF 193553P12 GVD3 P30 50K XXXX GL3LU.ies	D5
	Granville	 Clear/Black	1, 5, 8*	NA or 4	3	51/50	5000K	8,210	B2-U5-G4	ISF 193532P12 GVD3 P30 50K XXXX GL3.ies	D5
	Granville	 Green/Green	1, 5	NA	3	37/40	3000K	4,704	B2-U3-G4	ISF 193553P6 GVD3 P20 30K XXXX GL3LU.ies	C5
			1, 5	NA	3	37/40	5000K	5,075	B2-U3-G4	ISF 193553P8 GVD3 P20 50K XXXX GL3LU.ies	C5
			1, 5	NA	3	51/50	3000K	7,216	B2-U4-G5	ISF 193553P10 GVD3 P30 30K XXXX GL3LU.ies	D5
			1, 5	NA	3	51/50	5000K	7,484	B2-U4-G5	ISF 193553P12 GVD3 P30 50K XXXX GL3LU.ies	D5

*Also available in double bracket configuration

Post Top B – 9/11/2020



Brackets and Poles

Discover a New Road to Efficiency

BRACKETS



1

Style

Standard
2', 6', 8', 12'
Side Mounted

Color

Silver



2

Style

Standard
8'
Side Mounted Arm
or Standard 6', 8'
Tenon Mounted Arm

Color

Black



3

For pole
#4 only

Style

Decorative
6' Tenon Mounted Arm
or Decorative 48"
Pedestrian Side
Mounted Arm

Color

Black



4

Style

Decorative
Double Bracket
Tenon Mounted Arm

Color

Black
Green



5

Style

Single or
Double Bracket
Tenon Mounted
for Galleon

Color

Black
Gray
Bronze

POLES

Standard
Concrete



1

Tenon Mount
20' (13' MH)
35' (27'6" MH)

Standard Black
Fiberglass



2

Tenon Mount
13' (10' MH)
20' (15'6" MH)

Black Columbia
Concrete



3

Tenon Mount
20' (15'9" MH)

Black Octagonal
Concrete



4

Tenon Mount
37' (30' MH)

Black or Green
Washington Concrete



5

Tenon Mount
18.5' (14'6" MH)

Standard
Wood



6

Arm Mount
35' (29' MH)
40' (33'6" MH)
45' (38" MH)

Standard
Concrete



7

Arm Mount
30' (22'6" MH)
35' (27'6" MH)
40' (30" MH)
45' (35' MH)

Black Tapered
Concrete



8

Tenon Mount
14'6" (10' MH)
21' (15'6" MH)

*MH = Approximate Mounting Height

