

Hello Andrea,

Attached is an inventory of the FPL street lights along Ocean Drive from Donald Ross Road to Celestial Way at the 911 Memorial. These lights are included on the summary as they are within the Sea Turtle Protection Zone, i.e. 600 feet landward of the mean high water line, and / or they are, or have been at some time in the past, directly visible from the beach.

Lights **not** included in the summary are lights along Ocean Drive north of Donald Ross Road which, although they are within the Sea Turtle Protection Zone, they are bollards equipped with amber lights and are low, shielded and compliant with Palm Beach County and Juno Beach Codes relative to sea turtle protection.

Lights along Ocean Drive south of Celestial Way are outside of the Sea Turtle Protection Zone and are not visible from the beach and, thus, are also not included in the summary.

Additionally, the Town's street lights on Mercury Road were previously causing reflected light to be visible from the beach and, therefore, Public Works replaced the lamps in these street lights with amber LEDs several years ago. These are also not included in the attached summary.

As you'll see, I tried to prioritize the lights to the best of my ability. This is somewhat subjective; however, I did consult with Palm Beach County Environmental Resources Management when reviewing the lights and whether they are visible from the beach or could become visible from the beach due to changes in beach elevation caused by hurricanes, storms, tides, and beach re-nourishment projects, as well as changes to existing vegetation heights and densities.

Most, if not all, of the Priority 1 lights have been turned off for a number of years in an effort to protect nesting sea turtles and their hatchlings, and some of these have been turned off for nearly 2 decades. This is consistent with Staff's efforts through the years to work towards eliminating visible light whenever possible by working with residents and homeowner / condominium associations to disconnect lights whenever possible or to change to a more "turtle-friendly" option. Of importance is that these efforts not only eliminate, or at least minimize, the visibility of direct light from the beach, it also helps to minimize reflected light that may be visible from the beach as well as to help minimize sky glow which is also reported to be problematic for sea turtles.

The Town is continuing its efforts to set an example for other Florida municipalities by eliminating and / or by minimizing to the extent possible light visible from the beach including direct light, indirect / reflected light, and sky glow.

If you have any questions, please feel free to contact me.

Respectfully,

Lynn Hamel

Code Compliance Officer
Town of Juno Beach
561/627-0818

FLORIDA POWER & LIGHT UTILITY POLES
Ocean Drive: From Donald Ross Road to Celestial Way

Pole I.D. (If Available)	Location	On/Off (Currently)	On/Off (Recommendation) Priority Level	Other
39801 68135644219	Sea Images 1055 Ocean Drive NW Corner of Ocean & Donald Ross	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s). <i>An option would be to install a "turtle shield" on the E/NE side of the fixture and reevaluate.</i>
681356840	Beach Access 0	On	Off Priority 1	Fixture should be turned off until the fixture can be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s) as the "turtle shield" is not effective at this location.
981357031	970 Ocean Drive	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s).
No I.D. Observed	The Surf 900 Ocean Drive	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s).
681357124	The Tower 840 Ocean Drive	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s).
68135672603	W End of Town Hall Park / The Tower Parking Lot (W of Ocean Drive)	Off	Off Priority 2	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s). <i>An option would be to install a "turtle shield" on the E side of the fixture and reevaluate.</i>

Priority 1: High **Priority 2: Medium** **Priority 3: Low**

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FLORIDA POWER & LIGHT UTILITY POLES
Ocean Drive: From Donald Ross Road to Celestial Way

No I.D. Observed	461 Venus Drive (W of Ocean Drive & S of Venus Drive)	On	Off Priority 2	Fixture should be turned off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s). <i>An option would be to install a "turtle shield" on the NE side of the fixture and reevaluate.</i>
68135721809	The Waterfront 800 Ocean Drive	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s). <i>An option would be to install a "turtle shield" on the E/NE side of the fixture and reevaluate.</i>
No I.D. Observed	700 Ocean Drive Beach Access 2	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s).
38819/5695-0	705 Ocean Drive (W of Ocean Drive)	On	Off Priority 2	Fixture should be turned off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s). <i>An option would be to install a "turtle shield" on the E side of the fixture and reevaluate.</i>
68135740200	Juno-by-the-Sea 630 Ocean Drive	On	Off Priority 2	Fixture should be turned off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s). <i>An option would be to install a "turtle shield" on the E/SE side of the fixture and reevaluate.</i>
No I.D. Observed	591 Ocean Drive (W of Ocean Drive)	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s).

Priority 1: High Priority 2: Medium Priority 3: Low

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Ocean Drive: From Donald Ross Road to Celestial Way

87	The Horizon/The Oceanfront 600/570 Ocean Drive Beach Access 3	Off	Off Priority 1	Fixture should remain off OR fixture should be replaced with a truly "turtle-friendly" fixture equipped with amber LED lamp(s).
68134769107	The Beachfront 530 Ocean Drive	On	On Priority 3	Direct Visibility Unlikely – Installation of turtle shield & downward directed recommended.
68134778408	The Brigadoon 500 Ocean Drive	On	On Priority 3	Direct Visibility Unlikely – Installation of turtle shield & downward directed recommended.

Priority 1: High Priority 2: Medium Priority 3: Low

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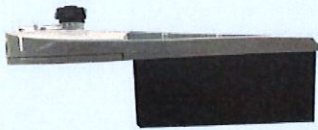


FPL®

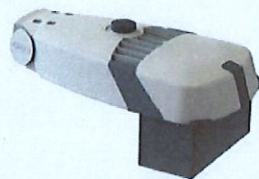
LED Lighting Solutions

Roadway Lighting

Feel Safe, Drive Safe



ATB2 – Turtle-friendly Amber



Shield facing coastal line

Cree – RSW Extra-large
Turtle-friendly Amber



Roadway – LED 5,000 Lumens
to 12,000 Lumens*



Roadway – LED 17,000
Lumens to 20,000 Lumens*



Roadway – LED 31,500 Lumens*

Available in
black or gray



AEL – ATB2

**This is a non-representative image for the light.
Installations in the field may be different.*

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	
① ATB2	Turtle Friendly Roadway		6, 7, 10	1, 7	3	108/110	594nM (Amber)	5,408 (no shield)	B1-U0-G2	Upon Request	G5	
								2,927 (rear shield)				
								1,878 (front shield)				
② RSW-XL	Turtle Friendly Roadway		6, 7, 10	1, 7	3	144/140	594nM (Amber)	6,111 (no shield)	B1-U0-G2	Upon Request	J4	
								3,544 (rear shield)				
								2,706 (front shield)				
Roadway	5,000 LUMEN Roadway		6, 7, 10	1, 7	3	42/40	3000K	5,000+	B1-U0-G1	Upon Request	C2	
			6, 7, 10	1, 7	3	42/40	4000K	5,000+	B1-U0-G2	Upon Request	C2	
	7,500 LUMEN Roadway		6, 7, 10	1, 7	3	59/60	3000K	7,500+	B1-U0-G1	Upon Request	D2	
			6, 7, 10	1, 7	3	59/60	4000K	7,500+	B1-U0-G2	Upon Request	D2	
	12,000 LUMEN Roadway		6, 7, 10	1, 7	3	93/90	3000K	12,000+	B2-U0-G3	Upon Request	F2	
			6, 7, 10	1, 7	3	93/90	4000K	12,000+	B2-U0-G3	Upon Request	F2	
	17,000 LUMEN Roadway		6, 7, 10	1, 7	3	127/130	3000K	17,000+	B3-U0-G3	Upon Request	I2	
			6, 7, 10	1, 7	3	127/130	4000K	17,000+	B2-U0-G3	Upon Request	I2	
	20,000 LUMEN Roadway		6, 7, 10	1, 7	3	161/160	3000K	20,000+	B3-U0-G4	Upon Request	K3	
			6, 7, 10	1, 7	3	161/160	4000K	20,000+	B3-U0-G4	Upon Request	K3	
	31,500 LUMEN Roadway		6, 7, 10	1, 7	3	263/260	3000K	31,500+	B3-U0-G5	Upon Request	Q3	
			6, 7, 10	1, 7	3	263/260	4000K	31,500+	B3-U0-G5	Upon Request	Q3	
	AEL	ATB2		6,7,9,10	1, 5, 7	4	121/120	3000K	16,427	B2-U0-G3	ATB2_P40X_MVOLT_R4_3K	H3
				6,7,9,10	1, 5, 7	4	121/120	4000K	17,125	B2-U0-G3	ATB2_P40X_MVOLT_R4_4K	H3
6,7,9,10				1, 5, 7	4	186/190	3000K	24,937	B3-U0-G4	ATB2_P602_R4_3K_186W_RFD323103.IES	L3	
6,7,9,10				1, 5, 7	4	186/190	4000K	25,839	B3-U0-G4	ATB2_P602_R4_RFD325843.ies	L3	
6,7,9,10				1, 5, 7	4	264/260	3000K	32,450	B3-U0-G5	ATB2_P604_R4_3K	Q3	
6,7,9,10				1, 5, 7	4	264/260	4000K	33,910	B3-U0-G5	ATB2_P604_R4_4K	Q3	
				2,4,6,7,8*, 9,10	1,2,5,7	4	121/120	4000K	17,125	B2-U0-G3	ATB2_P40X_MVOLT_R4_4K	H3
				2,4,6,7,8*, 9,10	1,2,5,7	4	186/190	4000K	25,839	B3-U0-G4	ATB2_P602_R4_RFD325843.ies	L3
				2,4,6,7,8*, 9,10	1,2,5,7	4	264/260	4000K	33,910	B3-U0-G5	ATB2_P604_R4_4K	Q4

Note: All roadway fixtures are grey unless otherwise noted



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