

FWC APPROVED SEA TURTLE LIGHTING GUIDELINES

ACCEPTABLE FIXTURES

All exterior fixtures on the seaward and the shore perpendicular sides of the building (and on the landward side of the building if they are visible from the beach) should be well shielded, full cut-off, downward directed type fixtures. All exterior fixtures on the landward side of the building should be downward directed only.

ACCEPTABLE LAMPS / BULBS AND OTHER LIGHT SOURCES

Long wave length lights, e.g. those that produce light that measures greater than 580 nanometers on a spectroscope, are necessary for all construction visible from and adjacent to marine turtle nesting beaches. Bright white light, such as metal halide, halogen, fluorescent, mercury vapor and incandescent lamps will not be approved. Filters are unreliable and not allowed. Limited use of shorter wavelength lights may be approved in areas where direct and indirect light or glow could not possibly be visible from the beach upon approval by FWC.

ACCEPTABLE LAMPS

- Low Pressure Sodium (LPS) 18w, 35w
- Amber or Red LED (true red or true amber, diodes, NOT filters)
- Turtle Safe Lighting, Inc (TSL) coated, compact fluorescent (CF) lamps (maximum 13 watts) (Filter sleeves and dichroic filters are not allowed)
- True red neon
- Other lighting sources that produce light of 580 nm or longer

***** FWC approved lighting may be found at <http://www.myfwc.com> *****

STATEMENT ABOUT POOL LIGHTS ON LIGHTING PLAN

The plan shall reflect that the interior swimming pool and pool deck lights shall be turned off while the pool is closed during sea turtle nesting season (May 1st – October 31st). The use of an automatic timer is acceptable. This may be specified in the notes section on the drawing and should be included in the FDEP Permit Conditions.

STATEMENT ABOUT TURTLE GLASS ON LIGHTING PLAN

The plan shall reflect that tinted glass or film with a visible light transmittance value of forty-five (45) percent or less shall be applied to all windows and doors within line of sight of the beach. This includes the seaward and shore-perpendicular sides of the structure. This may be specified in the notes section on the Lighting Plan architectural drawing and should be included in the FDEP Permit Conditions.




TIMERS




Timers may be used only for in-pool and pool deck lights when the pool is closed.

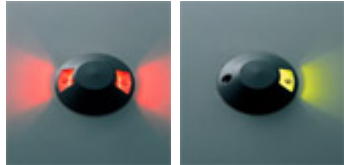

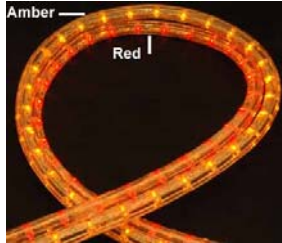
THE FOLLOWING ARE NOT ALLOWED

- Private balcony lights
- Pond lights
- Up lights
- Dune walkover lighting
- Tree strap downlights
- Fountain lights on beach or shore perpendicular side of structure
- Decorative lighting, not necessary for human safety or security

EXAMPLES OF TURTLE FRIENDLY FIXTURES

FIXTURE	LAMP & WATTAGE	MOUNTING TYPE & HEIGHT	LOCATION	COMMENTS
<p>Ceiling Mount Cylinder (with interior black baffles)</p> 	<p>Amber /red LED 13w (maximum) TSL <u>coated</u> CF</p>	<p>Ceiling Surface</p>	<p>if located on shore perpendicular or beach side of structure allow on <u>ground floor</u> only</p>	<p>Interior Black Baffles</p>
<p>Wall Mount Cylinder Down Light (with interior black baffles)</p> 	<p>Amber /red LED 13w (maximum) TSL <u>coated</u> CF</p>	<p>Wall Mount Downward Directed 8 ft from floor</p>	<p>If located on shore perpendicular or beach side of structure allow on <u>first habitable floor</u> only</p>	<p>Interior Black Baffles</p>
<p>Recessed Ceiling Canister</p> 	<p>Amber/red LED 13w (maximum) TSL <u>coated</u> CF</p> <p style="color: red;"><u>For covered driveway entry on landward side of commercial or multi-family structures only:</u> Halogen lamp PAR spot lamps LED lamps</p>	<p>Recessed Ceiling</p>	<p>If located on shore perpendicular or beach side of structure allow on <u>ground floor</u> only</p>	<p>Interior black baffles Hex cell (honeycomb) louver</p>

FIXTURE	LAMP & WATTAGE	MOUNTING TYPE & HEIGHT	LOCATION	COMMENTS
<p>Recessed Step Lights (louvered or downward directed)</p> 	<p>Amber/ red LED 13w (maximum) TSL <u>coated</u> CF</p>	<p>Wall Mount Maximum height 12 inches</p>	<p>Ground Floor and Second level, and pool Deck</p>	<p>If on perimeter of pool deck, must be mounted directed away from beach.</p>
<p>Bollard (with downward directed louvers)</p> 	<p>18w LPS Amber/ red LED 13w (maximum) TSL <u>coated</u> CF</p>	<p>Maximum height 42 in</p>	<p>Parking areas, commercial walkway, landscape, pathway and pool Deck</p>	<p>180° to 270° beach side shields on any fixture on perimeter of pool deck or immediately adjacent to beach.</p>
<p>High Intensity Full Cut Off Pole Lights</p> 	<p>18-35 w LPS (if twin head, maximum of 36w total)</p>	<p>Pole - maximum height 12 feet</p>	<p>Parking Area Landward side of structure only.</p>	<p>Beach Side shields for any fixture within line of sight of beach.</p>

FIXTURE	LAMP & WATTAGE	MOUNTING TYPE & HEIGHT	LOCATION	COMMENTS
Paver Lights 	Amber or Red LED	In Ground mount	Parking areas, driveways, pathways, pool decks	
Garage Lighting (Phoenix) 	35w LPS	Garage Ceiling	Garage	If a parking garage is not fully enclosed with solid walls, without windows, so that the interior is not visible from any section of beach, only LPS lamps shall be used. Additional shields may be necessary if parking is above ground level.
Channel / Rope Lighting 	Amber or Red LED <u>NOT colored plastic tubing with white lights</u> <u>No White LED</u>	Must be mounted recessed under steps, bar, etc. and directed <u>down</u> to assure that light source or reflected light is not visible from beach	Pool deck, steps, pool bars.	
Water Feature Lighting	Amber LED	Light must be downward directed	Landward side of structure only if fully shielded from beach.	