



# RC Navigation Lighting

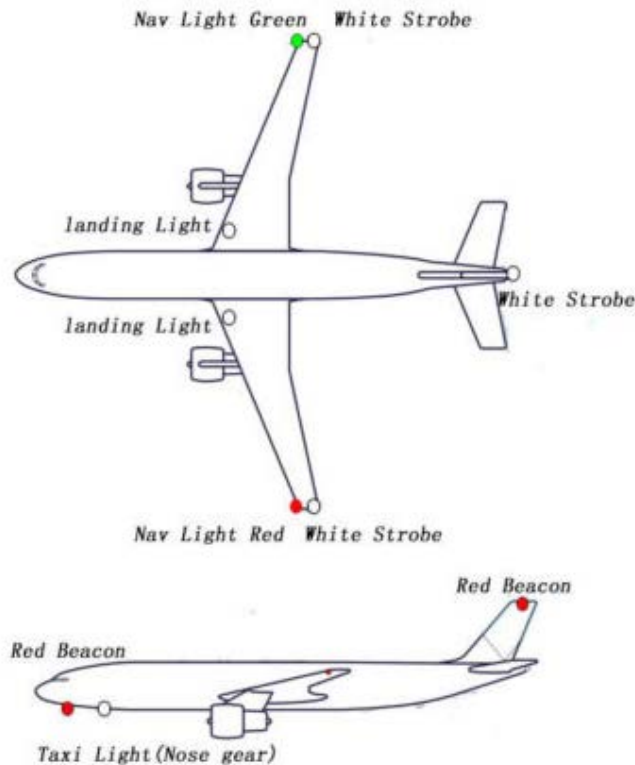
5-21-19 Tech Presentation

Joe Fannon

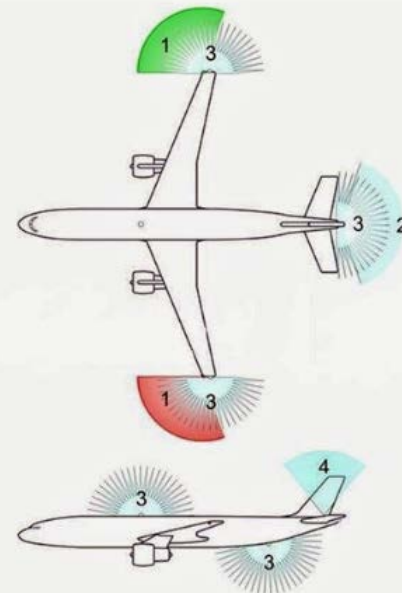
# Full Scale Aircraft Lighting

## Purpose

- 1.) Alert nearby aircraft of presence (strobes & rotating beacons).
- 2.) Show orientation and direction of travel to other pilots (nav lights).
- 3.) Provide ground visibility (landing lights).



## Aviation Navigation Lights

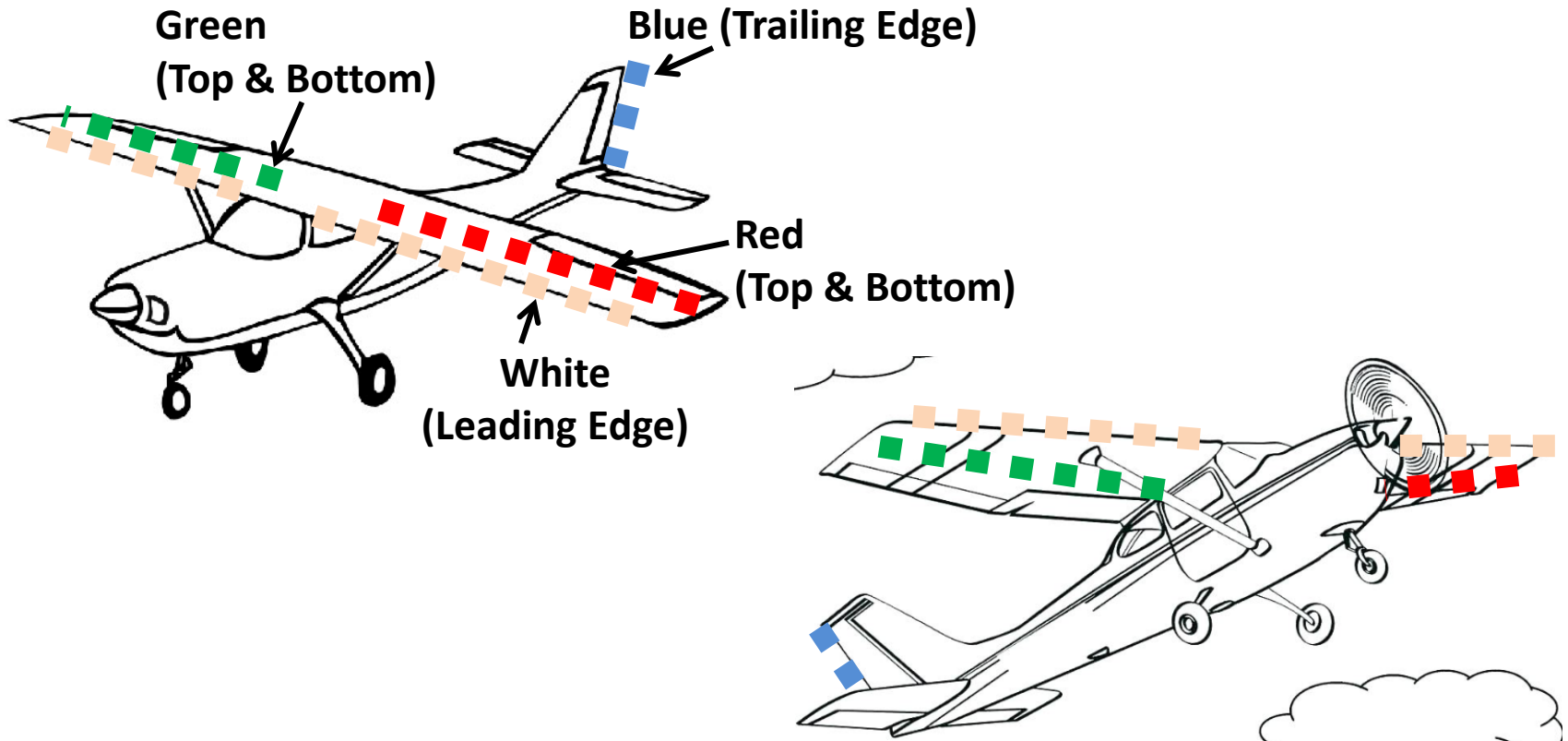


- 1) Navigation lights
- 2) Aft light
- 3) Anti-collision strobe lights
- 4) Logo light

# RC Aircraft Lighting

## Purpose

- 1.) Show pilot plane orientation and direction of travel.
- 2.) Alert nearby aircraft of presence.
- 3.) Provide ground visibility for landing.

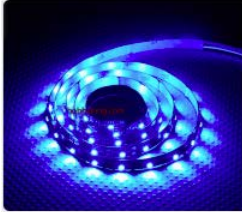



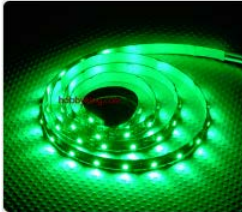



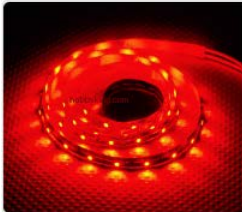









# LED Selection/Specifications

[www.hobbyking.com](http://www.hobbyking.com) (USA Warehouse)

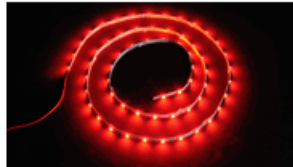
-12 volt LED's designed for 3S lip batteries

- Self-stick adhesive backing

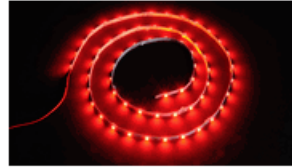
	<b>TURNIGY HIGH DENSITY R/C LED FLEXIBLE STRIP-BLUE (1MTR)</b> SKU: TR-STRIP-BL    Free Shipping on Eligible Orders   ★★★★★	QTY: <input type="text" value="-"/> <input type="text" value="1"/> <input type="text" value="+"/> <b>\$2.91</b>  
	<b>TURNIGY HIGH DENSITY R/C LED FLEXIBLE STRIP-GREEN (1MTR)</b> SKU: TR-STRIP-GR    Free Shipping on Eligible Orders   ★★★★★	QTY: <input type="text" value="-"/> <input type="text" value="1"/> <input type="text" value="+"/> <b>\$2.91</b>  
	<b>TURNIGY HIGH DENSITY R/C LED FLEXIBLE STRIP-RED (1MTR)</b> SKU: TR-STRIP-RE    Free Shipping on Eligible Orders   ★★★★★	QTY: <input type="text" value="-"/> <input type="text" value="1"/> <input type="text" value="+"/> <b>\$2.91</b>  
	<b>TURNIGY HIGH DENSITY R/C LED FLEXIBLE STRIP-WHITE (1MTR)</b> SKU: TR-STRIP-WH    Free Shipping on Eligible Orders   ★★★★★	QTY: <input type="text" value="-"/> <input type="text" value="1"/> <input type="text" value="+"/> <b>\$2.91</b>  

# LED Selection/Specifications

- <https://www.hobbypartz.com/ledlights.html>



**HobbyPartz Red LED-60 Lights**  
**79P-10190**  
Regular Price: ~~\$10.40~~  
**On Sale Now: \$4.50**  
You save 57%



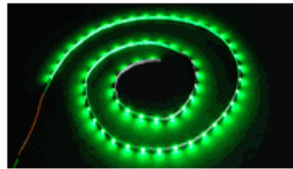
**HobbyPartz Red LED-30 Lights**  
**79P-10191**  
Regular Price: ~~\$7.99~~  
**On Sale Now: \$2.50**  
You save 69%



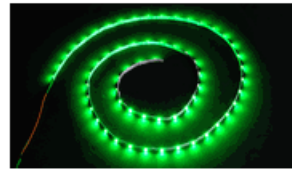
**HobbyPartz Warm-White LED-60 Lights**  
**79P-10187**  
Regular Price: ~~\$10.40~~  
**On Sale Now: \$4.50**  
You save 57%



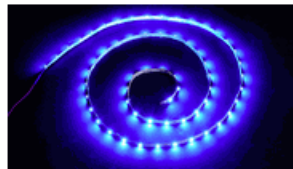
**HobbyPartz Warm-White LED-30 Lights**  
**79P-10188**  
Regular Price: ~~\$8.65~~  
**On Sale Now: \$2.50**  
You save 71%



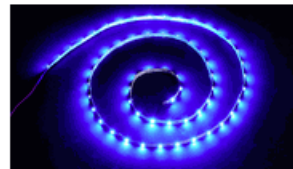
**HobbyPartz Green LED-60 lights**  
**79P-10196**  
Regular Price: ~~\$6.00~~  
**On Sale Now: \$4.50**  
You save 25%  
Out of Stock!



**HobbyPartz Green LED-30 lights**  
**79P-10197**  
Regular Price: ~~\$8.65~~  
**On Sale Now: \$2.50**  
You save 71%



**HobbyPartz Blue LED-60 lights**  
**79P-10193**  
Regular Price: ~~\$10.40~~  
**On Sale Now: \$4.50**  
You save 57%  
Out of Stock!

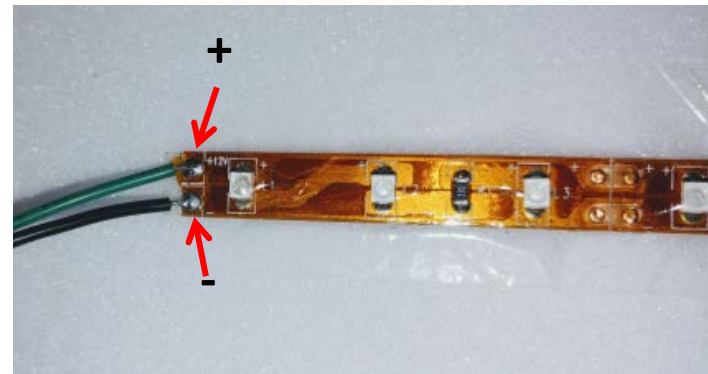
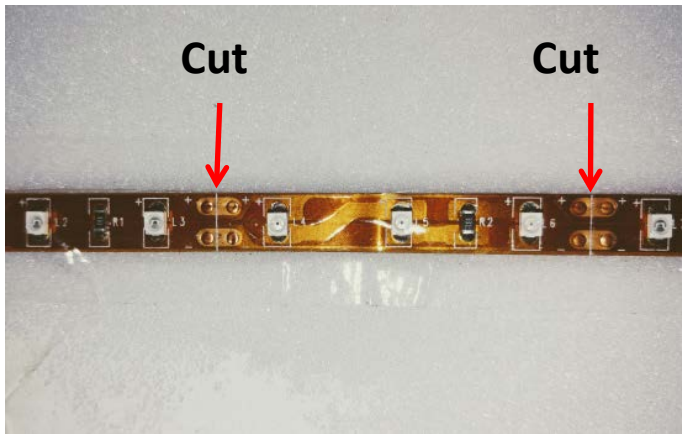


**HobbyPartz Blue LED-30 lights**  
**79P-10194**  
Regular Price: ~~\$8.65~~  
**On Sale Now: \$2.50**  
You save 71%

# LED Installation/Wiring

## LED Strips

- 1.) LED strips can be subdivided into groups of three.  
+/- polarity is critical when wiring.



- 2.) Self-Stick Adhesive backing is not adequate.  
Recommend covering with clear packing tape.



# LED Installation/Wiring

## LED Power Supplies

- 1.) LED strips are rated for 12 volts DC.  
3S Lipo battery is ideal power source (20C rating is fine).



Male JST Connector  
directly to balance plug

- 2.) For 2S planes it's possible to use a small 150-200 mAh 3S battery.

