

LUMILEDS TECH SPEC

NAME: Steve Durie & Bruce Gardner

SUMMARY:

Each Lumileds strip is comprised of 3 different color leds (10 red 10 green and 5 red) all packaged on a metal strip about 1 foot long.

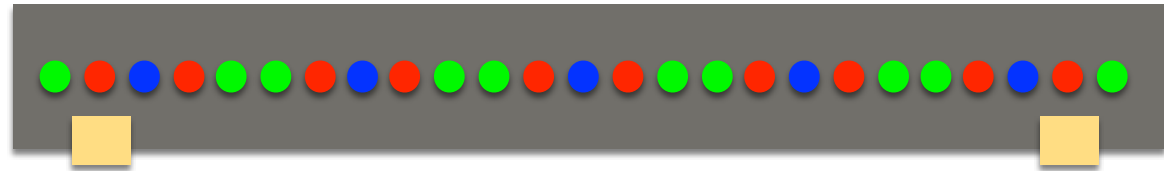
Each color is connected in a series with positive and negative connector on opposite ends of the strip.

Volt and Current Requirements:
On Average its about 4 volts for each led for full brightness. Current varied depending on bulb and color.

For each strip:
Red channel needs (10 leds) = 32-40 volts
Green channel needs (10 leds) = 32-40 volts
Blue channel (5 leds) = 18- 20 volts

If the whole strip is lit up(25 leds) it needs about .7 amps of current

Each color also consumes a different amount of current, the red the least and the blue the most.



SUMMARY

LED SET BY COLOR	VOLTAGE MIN	VOLTAGE MAX	EQUAL LUMINANCE CURRENT AND VOLTS	EQUAL LUMINANCE FOR POWER
RED (10LEDS)	17	40	24V @ .1A	5 watts
GREEN (10 LEDES)	20	40	28V @ .18A	17 watts
BLUE (5 LEDES)	12.5	20	18V @ .49A	33 watts

CURRENT USAGE FOR EACH BULB AT 4 VOLTS

BULB LOCATION	GREEN AMPS	RED AMPS	BLUE AMPS
1	0.8	0.7	1.06
2	1.83	0.94	1.29
3	1.42	0.7	1.68
4	0.58	0.84	2.02
5	2.1	0.82	1.38
6	0.78	0.86	
7	1.11	1.04	
8	0.9	1.01	
9	0.81	1.04	
10	0.81	0.89	
Average	1.114	0.884	1.486