RULE THE NITE

AMPERAGE DATA

There are approximately 18.3 LEDs per foot (300 LEDs / 197" x 12" per foot). For circuit planning purposes, we suggest rounding up to 19 LEDs per foot (or even 20). Always best to be conservative when doing electrical circuit amperage calculations.

LOW PROFILE	# DIODES LIT	AMPERAGE DRAW PER LED — INPUT VOLTAGE 12.5 Volts	13.5 Volts
RGB (MULTI COLOR)			
White	3	0.0114	0.0138
Red	1	0.0048	0.0055
Green	1	0.0048	0.0059
Blue	1	0.0047	0.0057
Magenta	2	0.0084	0.0101
SINGLE COLOR			
White	3	0.0104	0.0126
Red	3	0.0109	0.0124
Green	3	0.0105	0.0124
Blue	3	0.0102	0.0121
Pink	3	0.0102	0.0124
Amber	3	0.0106	0.0121
Orange	3	0.0116	0.0133
UV	3	0.0084	0.0105
RGBA (1)			
Amber	1	0.0066	0.0075
RGBWW (2)			
Warm White	1	0.005	0.006
Cool White	1	0.005	0.006
RGBW (3)			
Warm White	1	0.007	0.0086

Meaurements calculated with a 15', 20 awg power lead

(1) Amperage draw is for the Amber diode. Refer to amperages for RGB component of this strip.

(2) Amperage draws are for the Warm White and Cool White diodes. Refer to amperages for RGB component of this strip.

(3) Amperage draw is for the Warm White diode. Refer to amperages for RGB component of this strip.

RGB and Single Color LEDs are 5050 Tri-Chips
The Amber, Warm White and Cool White chips on the RGBA, RGBW and RGBWW are single diode chips

HEAVY DUTY	# DIODES LIT	AMPERAGE DRAW PER LED — INPUT VOLTAGE 12.5 Volts	13.5 Volts
RGB (MULTI COLOR)			
White	3	0.0156	0.0189
Red	1	0.0153	0.0176
Green	1	0.0162	0.0197
Blue	1	0.0169	0.0206
Magenta	2	0.0121	0.0144
SINGLE COLOR			
White	3	0.0156	0.0189
Red	3	0.0153	0.0176
Green	3	0.0162	0.0197
Blue	3	0.0169	0.0206
Pink	3	0.0177	0.0221
Amber	3	0.0152	0.0174
Orange	3	0.0154	0.018
RGBA (1)			
Amber	1	0.0081	0.0096

Meaurements calculated with a 3', 22 awg power lead

(1) Amperage draw is for the Amber diode. Refer to amperages for RGB component of this strip.

RGB and Single Color LEDs are 5050 Tri-Chips
The Amber chip on the RGBA is a single diode chip.

Use the above data for planning only. We strongly urge all customers to measure the actual amperage draw of their lighting system. The input voltage, the number of leds, the type of switches used and the amount of copper wire in your system will impact the actual amperage draw in your system when installed.