

VOLTAGE DROPS CHARTS

For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

Wire Gauge	10W .83A	20W 1.7A	30W 2.5A	40W 3.3A	50W 2.1A	60W 4.2A
18 AWG	34ft	17ft	11ft	8ft	6ft	5ft
16 AWG	54ft	27ft	18ft	13ft	10ft	9ft
14 AWG	86ft	43ft	29ft	21ft	17ft	14ft
12 AWG	134ft	68ft	45ft	34ft	27ft	22ft
10 AWG	199ft	99ft	66ft	49ft	39ft	33ft

1. Determine load size. Let's assume load is 55W. Round up to the nearest load.
2. Determine distance from TRCDIM to load. Let's assume the distance is 20ft.
3. It's recommended to install 12 AWG to eliminate excess voltage drop.

12V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10W .83A	20W 1.7A	30W 2.5A	40W 3.3A	50W 2.1A	60W 4.2A
18 AWG	34ft	17ft	11ft	8ft	6ft	5ft
16 AWG	54ft	27ft	18ft	13ft	10ft	9ft
14 AWG	86ft	43ft	29ft	21ft	17ft	14ft
12 AWG	134ft	68ft	45ft	34ft	27ft	22ft
10 AWG	199ft	99ft	66ft	49ft	39ft	33ft

24V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10W .42A	20W .83A	30W 1.3A	40W 1.7A	50W 2.1A	60W 2.5A	70W 2.9A	80W 3.3A	100W 4.2A
18 AWG	134ft	68ft	45ft	33ft	27ft	22ft	19ft	17ft	14ft
16 AWG	215ft	109ft	72ft	54ft	43ft	36ft	31ft	27ft	22ft
14 AWG	345ft	174ft	115ft	86ft	69ft	57ft	49ft	43ft	36ft
12 AWG	539ft	272ft	181ft	135ft	108ft	90ft	77ft	68ft	56ft
10 AWG	784ft	397ft	263ft	197ft	158ft	131ft	112ft	98ft	82ft

VOLTAGE ADJUSTMENT

TRCDIM can provide a 1V boost if the fixture is receiving noticeable light degradation.

- Pop off face plate.
- Use a small screwdriver to adjust output voltage by turning adjustment dial clockwise.

