

Campus Exterior Lighting Wiring

V10 - IEEE

Voltage Drop Formula

Conductor/ Cu	Voltage	Configuration	Fixture Watts	Conductor Voltage Drop in V/A/100m	Luminaires separation in meters	Number of fixtures	Voltage drop at last pole	Circuit total amps	Per Unit Drop	Voltage at Last pole
#12/XHHW or 3.1mm ²	277	L-N1	60	1.214	18.5	54	2.63	11.70	0.95%	274.4
#12/XHHW or 3.1mm ²	480	L-L2	60	1.214	18.5	54	2.62	6.75	0.55%	477.4
#2/XHHW or 33.6mm ²	277	L-N1	60	0.130	18.5	54	0.28	11.70	0.10%	276.7
#2/XHHW or 33.6mm ²	480	L-L2	60	0.130	18.5	54	0.28	6.75	0.06%	479.7

NOTES:

1. Design assumes a 4.6m mounting height and a Lithonia Model #DSX1-KED-40K-T2M-277-SPA Luminaire.
1. Design assumes a 4.6m mounting height and a Lithonia Model #DSX1-KED-40K-T2M-480-SPA Luminaire.