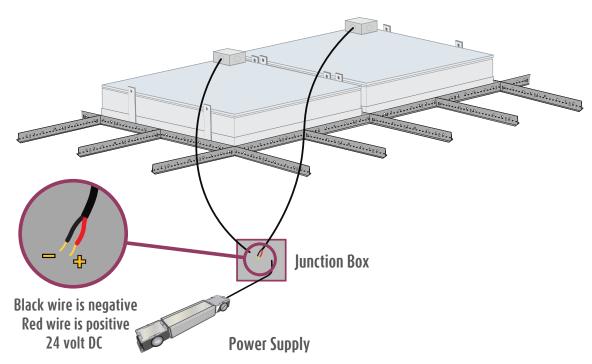


Revelation w/ EcoPlus Electrical Instructions (EP Only)



Installation Instructions includes:

Revelation w/ EcoPlus Electrical Instructions (EP Only)

Wiring Diagram EL001181

Total Wattage per Number of EcoPlus Fixtures

Wire Sizing Chart

Custom SkyCeiling wiring diagram (where applicable)

For technical support at any time during the installation, please call us **toll free at 866-759-3228.** We want your installation to go as smoothly as possible. Thank you for choosing The Sky Factory.

Revelation w/ EcoPlus Electrical Requirements:

EP26 Series = EP26, EP26M, EP26G

EP33 Series = EP33, EP33M, EP33G

EP34 Series = EP34, EP34M, EP34G

EP36 Series = EP36, EP36M, EP36G

EP44 Series = EP44, EP44M, EP44G

NOTE: For custom sizes, see Custom SkyCeiling wiring diagram (where applicable)

All EcoPlus fixtures are 24V DC only.

EcoPlus fixtures must be powered only by a UL Listed or CE Compliant 24V DC power supply with wattage greater than total wattage of EcoPlus fixtures.

Dry locations only.

For number of fixtures per power supply, see

"Total Wattage per Number of EcoPlus Fixtures" on page 6-8

For installations with one or more custom sizes, see

Custom SkyCeiling wiring diagram attached

For dimming requirements, see page 4.

RF filter, if used, is <u>not</u> provided by The Sky Factory.

Electrical work must be performed by a qualified electrician who is familiar with DC lighting systems and must conform to all local and national codes.

Step 1: Wiring the Revelation fixtures to the power supply

See supporting drawing and charts on pages 5-9 and Custom SkyCeiling wiring diagram (where applicable)

| EcoPlus Lighting System - EP26 Series to EP44 Series | | | | |
|--|--------------------------------------|---------|----------------------|--------------------------------|
| TSF Model No. | Light Box Dimensions and Weight Only | | System Wattage (Max) | Input Current @ 24 Volts DC |
| | WxLxH | Weight | | |
| EP26 | 22.8125 x 34.8125 x 5.85 (inches) | 16.6 lb | 69.1 | 2.88A |
| EP33 | 34.8125 x 34.8125 x 5.85 (inches) | 12.6 lb | 51.8 | 2.16A |
| EP34 | 34.8125 x 46.8125 x 5.85 (inches) | 15.8 lb | 69.1 | 2.88A |
| EP36 | 34.8125 x 70.8125 x 5.85 (inches) | 22 lb | 103.7 | 4.32A |
| EP44 | 46.8125 x 46.8125 x 5.85 (inches) | 19.9 lb | 92.2 | 3.84A |
| | | | | |
| EP26M | 57 x 177 x 14.86 (cm) | 7.6 kg | 69.1 | 2.88A |
| EP33M | 87 x 87 x 14.86 (cm) | 5.8 kg | 51.8 | 2.16A |
| EP34M | 87 x 117 x 14.86 (cm) | 7.2 kg | 69.1 | 2.88A |
| EP36M | 87 x 177 x 14.86 (cm) | 10 kg | 103.7 | 4.32A |
| EP44M | 117 x 117 x 14.86 (cm) | 9.1 kg | 92.2 | 3.84A |
| | | | | |
| EP26G | 59.5 x 184.5 x 14.86 (cm) | 7.6 kg | 69.1 | 2.88A |
| EP33G | 90.8 x 90.8 x 14.86 (cm) | 5.8 kg | 51.8 | 2.16A |
| EP34G | 90.8 x 122 x 14.86 (cm) | 7.2 kg | 69.1 | 2.88A |
| EP36G | 90.8 x 184.5 x 14.86 (cm) | 10 kg | 103.7 | 4.32A |
| EP44G | 122 x 122 x 14.86 (cm) | 9.1 kg | 92.2 | 3.84A |

NOTE: For custom sizes, see also Custom SkyCeiling wiring diagram



Fixtures <u>may be arranged in rows or clusters</u>, depending on the installation.

A junction box with 1/2" trade size knock-outs is attached on top corner of each fixture.

- Power leads inside fixture junction box are <u>polarized</u>, red (+) to (+) and black (-) to (-).
- Wire size 18 AWG stranded.

Step 1 continued

Wiring from fixtures to V DC side of client-provided power supply is polarized, positive (+) to positive (+) and negative (-) to negative (-):

Wire and additional junction boxes from the fixtures to the power supply provided by others.

Voltage drop will occur over long distances. For appropriate lengths and gauges, see Wire Sizing Chart.

Wire gauge must conform to local and national codes.

Step 2: Dimming requirements

IMPORTANT: Use of Sky Factory approved dimming system only! Contact the Sky Factory if you plan on using a dimming system provided by others.



Notice: Dimming using non-approved systems may permanently damage LED's and will void the warranty!

In MRI applications, an RF Filter is required and is <u>not</u> provided by The Sky Factory.

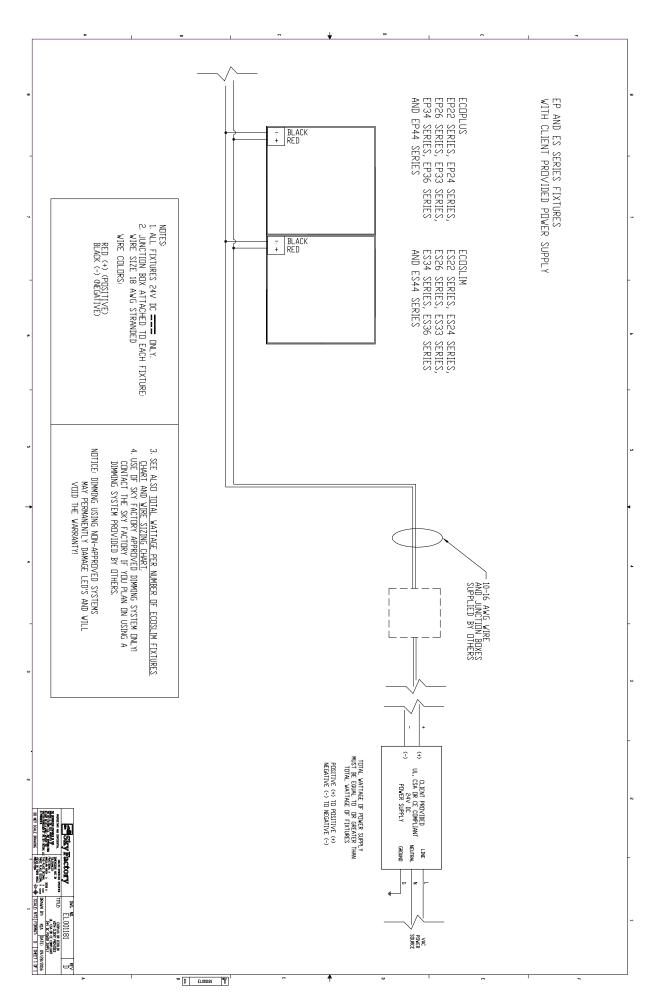
Step 3: Checking the polarity



Notice: CHECK THE POLARITY <u>BEFORE TURNING ON POWER</u>. MAKE SURE:

Red wires on the fixtures go to the "+" terminals of the power supply Black wires on the fixtures go to the "-" terminals of the power supply

IF THE SYSTEM IS WIRED BACKWARD, IT WILL DESTROY THE LED'S!



The Sky Factory

Total Wattage per Number of EcoPlus Fixtures

All Revelation fixtures must be powered by a UL Listed or CE Compliant 24V DC power supply. This table provides information for properly sizing a power supply given the number of fixtures in a given installation.

| | EP26 Series | | EP33 Series | |
|-----------------|------------------|------------------|------------------|------------------|
| No. of Fixtures | Required Current | Required Current | Required Current | Required Current |
| No. of fixtures | Amps | Watts | Amps | Watts |
| 1 | 2.88 | 69.1 | 2.16 | 51.8 |
| 2 | 5.76 | 138.2 | 4.32 | 103.6 |
| 3 | 8.64 | 207.3 | 6.48 | 155.4 |
| 4 | 11.52 | 276.4 | 8.64 | 207.2 |
| 5 | 14.4 | 345.5 | 10.8 | 259 |
| 6 | 17.28 | 414.6 | 12.96 | 310.8 |
| 7 | 20.16 | 483.7 | 15.12 | 362.6 |
| 8 | 23.04 | 552.8 | 17.28 | 414.4 |
| 9 | 25.92 | 621.9 | 19.44 | 466.2 |
| 10 | 28.8 | 691 | 21.6 | 518 |
| 11 | 31.68 | 760.1 | 23.76 | 569.8 |
| 12 | 34.56 | 829.2 | 25.92 | 621.6 |
| 13 | 37.44 | 898.3 | 28.08 | 673.4 |
| 14 | 40.32 | 967.4 | 30.24 | 725.2 |
| 15 | 43.2 | 1036.5 | 32.4 | 777 |
| 16 | 46.08 | 1105.6 | 34.56 | 828.8 |
| 17 | 48.96 | 1174.7 | 36.72 | 880.6 |
| 18 | 51.84 | 1243.8 | 38.88 | 932.4 |
| 19 | 54.72 | 1312.9 | 41.04 | 984.2 |
| 20 | 57.6 | 1382 | 43.2 | 1036 |
| 21 | 60.48 | 1451.1 | 45.36 | 1087.8 |
| 22 | 63.36 | 1520.2 | 47.52 | 1139.6 |
| 23 | 66.24 | 1589.3 | 49.68 | 1191.4 |
| 24 | 69.12 | 1658.4 | 51.84 | 1243.2 |
| 25 | 72 | 1727.5 | 54 | 1295 |
| 26 | 74.88 | 1796.6 | 56.16 | 1346.8 |
| 27 | 77.76 | 1865.7 | 58.32 | 1398.6 |
| 28 | 80.64 | 1934.8 | 60.48 | 1450.4 |
| 29 | 83.52 | 2003.9 | 62.64 | 1502.2 |
| 30 | 86.4 | 2073 | 64.8 | 1554 |
| 31 | 89.28 | 2142.1 | 66.96 | 1605.8 |
| 32 | 92.16 | 2211.2 | 69.12 | 1657.6 |
| 33 | 95.04 | 2280.3 | 71.28 | 1709.4 |
| 34 | 97.92 | 2349.4 | 73.44 | 1761.2 |
| 35 | 100.8 | 2418.5 | 75.6 | 1813 |

Total Wattage per Number of EcoPlus Fixtures

All Revelation fixtures must be powered by a UL Listed or CE Compliant 24V DC power supply. This table provides information for properly sizing a power supply given the number of fixtures in a given installation.

| | EP34 Series | | EP36 Series | | |
|-----------------|------------------|------------------|------------------|------------------|--|
| No of Eighten | Required Current | Required Current | Required Current | Required Current | |
| No. of Fixtures | Amps | Watts | Amps | Watts | |
| 1 | 2.88 | 69.1 | 4.32 | 103.7 | |
| 2 | 5.76 | 138.2 | 8.64 | 207.4 | |
| 3 | 8.64 | 207.3 | 12.96 | 311.1 | |
| 4 | 11.52 | 276.4 | 17.28 | 414.8 | |
| 5 | 14.4 | 345.5 | 21.6 | 518.5 | |
| 6 | 17.28 | 414.6 | 25.92 | 622.2 | |
| 7 | 20.16 | 483.7 | 30.24 | 725.9 | |
| 8 | 23.04 | 552.8 | 34.56 | 829.6 | |
| 9 | 25.92 | 621.9 | 38.88 | 933.3 | |
| 10 | 28.8 | 691 | 43.2 | 1037 | |
| 11 | 31.68 | 760.1 | 47.52 | 1140.7 | |
| 12 | 34.56 | 829.2 | 51.84 | 1244.4 | |
| 13 | 37.44 | 898.3 | 56.16 | 1348.1 | |
| 14 | 40.32 | 967.4 | 60.48 | 1451.8 | |
| 15 | 43.2 | 1036.5 | 64.8 | 1555.5 | |
| 16 | 46.08 | 1105.6 | 69.12 | 1659.2 | |
| 17 | 48.96 | 1174.7 | 73.44 | 1762.9 | |
| 18 | 51.84 | 1243.8 | 77.76 | 1866.6 | |
| 19 | 54.72 | 1312.9 | 82.08 | 1970.3 | |
| 20 | 57.6 | 1382 | 86.4 | 2074 | |
| 21 | 60.48 | 1451.1 | 90.72 | 2177.7 | |
| 22 | 63.36 | 1520.2 | 95.04 | 2281.4 | |
| 23 | 66.24 | 1589.3 | 99.36 | 2385.1 | |
| 24 | 69.12 | 1658.4 | 103.68 | 2488.8 | |
| 25 | 72 | 1727.5 | 108 | 2592.5 | |
| 26 | 74.88 | 1796.6 | 112.32 | 2696.2 | |
| 27 | 77.76 | 1865.7 | 116.64 | 2799.9 | |
| 28 | 80.64 | 1934.8 | 120.96 | 2903.6 | |
| 29 | 83.52 | 2003.9 | 125.28 | 3007.3 | |
| 30 | 86.4 | 2073 | 129.6 | 3111 | |
| 31 | 89.28 | 2142.1 | 133.92 | 3214.7 | |
| 32 | 92.16 | 2211.2 | 138.24 | 3318.4 | |
| 33 | 95.04 | 2280.3 | 142.56 | 3422.1 | |
| 34 | 97.92 | 2349.4 | 146.88 | 3525.8 | |
| 35 | 100.8 | 2418.5 | 151.2 | 3629.5 | |

Total Wattage per Number of EcoPlus Fixtures

All Revelation fixtures must be powered by a UL Listed or CE Compliant 24V DC power supply. This table provides information for properly sizing a power supply given the number of fixtures in a given installation.

| No. of Fixtures Required Current Amps Required Current Watts 1 3.84 92.2 2 7.68 184.4 3 11.52 276.6 4 15.36 368.8 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 21 80.64 1936.2 |
|--|
| Amps Watts 1 3.84 92.2 2 7.68 184.4 3 11.52 276.6 4 15.36 368.8 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 1 3.84 92.2 2 7.68 184.4 3 11.52 276.6 4 15.36 368.8 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 3 11.52 276.6 4 15.36 368.8 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 3 11.52 276.6 4 15.36 368.8 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 4 15.36 368.8 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 5 19.2 461 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 6 23.04 553.2 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 7 26.88 645.4 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 8 30.72 737.6 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 9 34.56 829.8 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 10 38.4 922 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 11 42.24 1014.2 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 12 46.08 1106.4 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 13 49.92 1198.6 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 14 53.76 1290.8 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 15 57.6 1383 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 16 61.44 1475.2 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 17 65.28 1567.4 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 18 69.12 1659.6 19 72.96 1751.8 20 76.8 1844 |
| 19 72.96 1751.8 20 76.8 1844 |
| 20 76.8 1844 |
| |
| |
| 22 84.48 2028.4 |
| 23 88.32 2120.6 |
| 24 92.16 2212.8 |
| 25 96 2305 |
| 26 99.84 2397.2 |
| 27 103.68 2489.4 |
| 28 107.52 2581.6 |
| 29 111.36 2673.8 |
| 30 115.2 2766 |
| 31 119.04 2858.2 |
| 32 122.88 2950.4 |
| 33 126.72 3042.6 |
| 34 130.56 3134.8 |
| 35 134.4 3227 |

Wire Sizing Chart

This chart is a guideline for recommended wiring practice.

Applies to 24V DC power only, i.e. from "fixture to power supply."

Not meant for "V AC to power supply" nor "dimmer to power supply."

Wire sizes in AWG Conversion chart below.

| Distance: Feet (Meters) | AWG for 5A | AWG for 10A | AWG for 15A |
|-------------------------|------------|-------------|-------------|
| 20 (6) | 18 | 14 | 12 |
| 30 (9) | 16 | 12 | 10 |
| 40 (12) | 14 | 10 | 10 |
| 50 (15) | 12 | 10 | * |
| 60 (18) | 12 | 10 | * |
| 80 (24) | 10 | * | * |
| 100 (30) | 10 | * | * |

^{*} Terminal block wire range #10 - #22 Awg.

| AWG | MM |
|-----|-------|
| 10 | 6.271 |
| 11 | 5.156 |
| 12 | 3.302 |
| 13 | 2.629 |
| 14 | 2.088 |
| 15 | 1.652 |
| 16 | 1.308 |
| 17 | 1.039 |
| 18 | 0.823 |