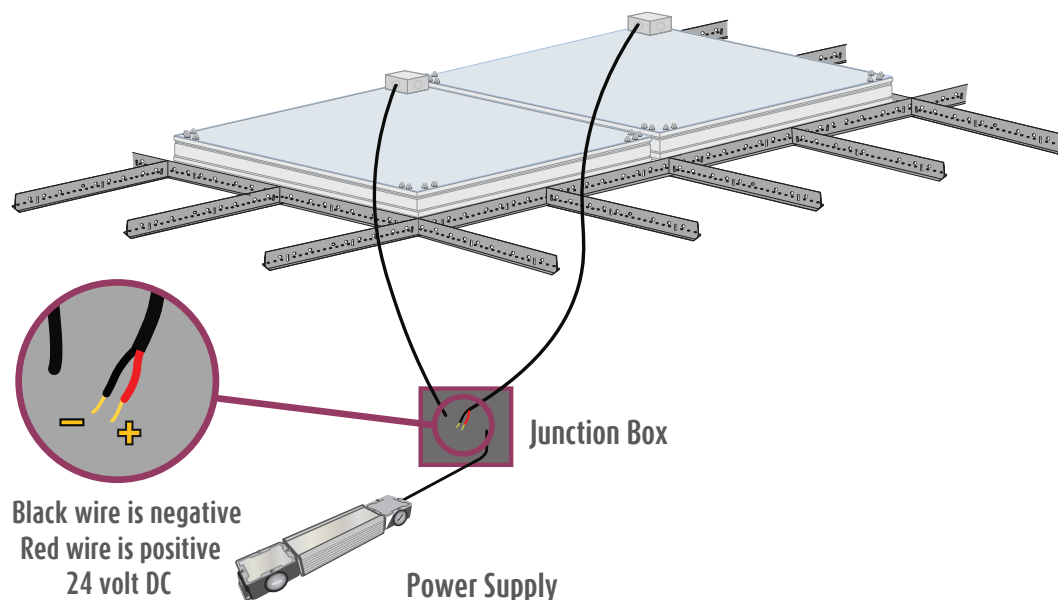




Revelation w/ EcoSlim Electrical Instructions (ES Only)



Installation Instructions includes:

Revelation w/ EcoSlim Electrical Instructions (ES Only)

Wiring Diagram EL001181

Total Wattage per Number of EcoSlim 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/ EcoSlim Electrical Requirements:

ES26 Series = ES26, ES26M, ES26G

ES33 Series = ES33, ES33M, ES33G

ES34 Series = ES34, ES34M, ES34G

ES36 Series = ES36, ES36M, ES36G

ES44 Series = ES44, ES44M, ES44G

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

All EcoSlim fixtures are 24V DC only.

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

Dry locations only.

For number of fixtures per power supply, see

“Total Wattage per Number of EcoSlim 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 not 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)

EcoSlim Lighting System - ES26 Series to ES44 Series				
TSF Model No.	Light Box Dimensions and Weight Only		System Wattage (Max)	Input Current @ 24 Volts DC
	WxLxH	Weight		
ES26	22.8125 x 34.8125 x 3.72 (inches)	28.3 lb	63.2	2.64A
ES33	34.8125 x 34.8125 x 3.72 (inches)	20.8 lb	46.8	1.95A
ES34	34.8125 x 46.8125 x 3.72 (inches)	27.1 lb	56.2	2.34A
ES36	34.8125 x 70.8125 x 3.72 (inches)	40 lb	72.5	3.02A
ES44	46.8125 x 46.8125 x 3.72 (inches)	35.3 lb	65.5	2.73A
ES26M	57 x 177 x 9.54 (cm)	12.9 kg	63.2	2.64A
ES33M	87 x 87 x 9.54 (cm)	9.5 kg	46.8	1.95A
ES34M	87 x 117 x 9.54 (cm)	12.3 kg	56.2	2.34A
ES36M	87 x 177 x 9.54 (cm)	18.1 kg	72.5	3.02A
ES44M	117 x 117 x 9.54 (cm)	16 kg	65.5	2.73A
ES26G	59.5 x 184.5 x 9.54 (cm)	12.9 kg	63.2	2.64A
ES33G	90.8 x 90.8 x 9.54 (cm)	9.5 kg	46.8	1.95A
ES34G	90.8 x 122 x 9.54 (cm)	12.3 kg	56.2	2.34A
ES36G	90.8 x 184.5 x 9.54 (cm)	18.1 kg	72.5	3.02A
ES44G	122 x 122 x 9.54 (cm)	16 kg	65.5	2.73A

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



Notice: The LED fixtures are 24V DC ONLY.

AC voltage connected directly to the fixtures
will destroy the lighting system.

Fixtures may be arranged in rows or clusters, 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 polarized, 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 not provided by The Sky Factory.

Step 3: Checking the polarity



Notice: CHECK THE POLARITY BEFORE TURNING ON POWER. MAKE SURE:

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

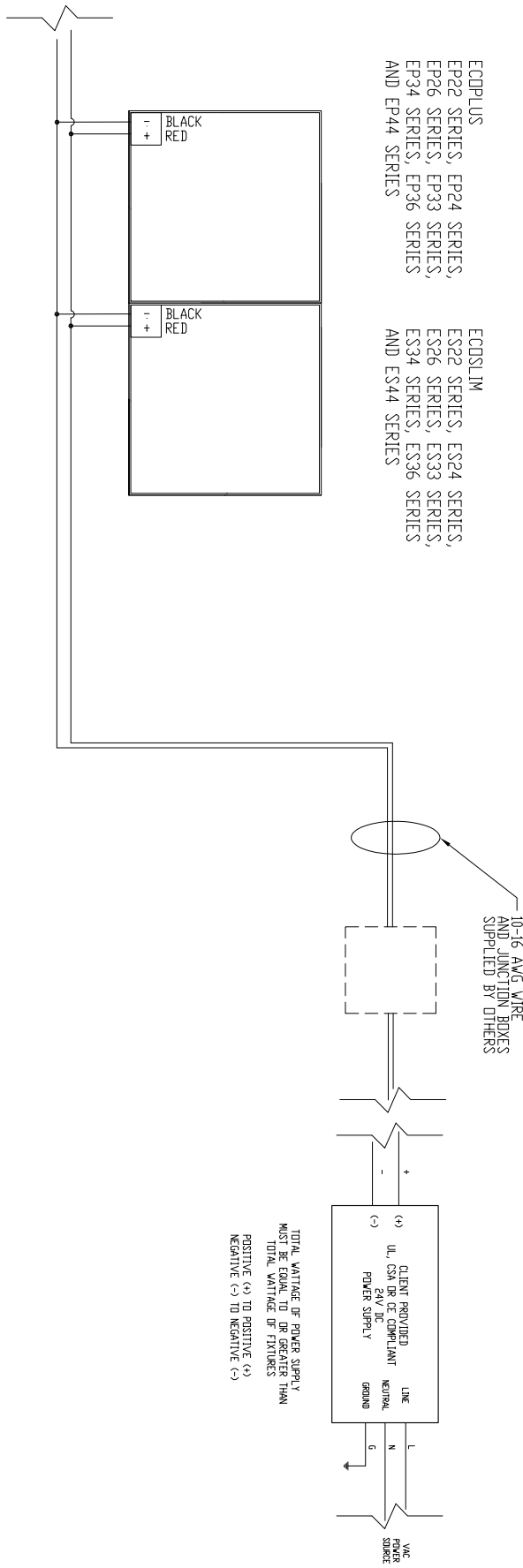
Black wires on the fixtures go to the "-" terminals of the power supply

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

EP AND ES SERIES FIXTURES WITH CLIENT PROVIDED POWER SUPPLY

ECOSLIM
EP22 SERIES, EP24 SERIES,
EP26 SERIES, EP33 SERIES,
EP34 SERIES, EP36 SERIES
AND EP44 SERIES

ECOSLIM
ES22 SERIES, ES24 SERIES,
ES26 SERIES, ES33 SERIES,
ES34 SERIES, ES36 SERIES
AND ES44 SERIES



TOTAL WATTAGE OF POWER SUPPLY
MUST BE EQUAL TO OR GREATER THAN
TOTAL WATTAGE OF FIXTURES
POSITIVE (+) TO POSITIVE (+)
NEGATIVE (-) TO NEGATIVE (-)

- NOTES:
1. ALL FIXTURES 24V DC ONLY.
 2. JUNCTION BOX ATTACHED TO EACH FIXTURE;
WIRE SIZE 18 AWG STRANDED
- WIRE COLORS:
RED (+) POSITIVE
BLACK (-) NEGATIVE

3. SEE ALSO TOTAL WATTAGE PER NUMBER OF ECOSLIM FIXTURES
CHART AND WIRE SIZING CHART.
 4. 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 LEDS AND WILL
VOID THE WARRANTY!

Sky Factory		DATE: 09/28/2016
PROJECT: EL001161	REV: 1	
DESCRIPTION: EP AND ES SERIES FIXTURES		
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	
DATE: 09/28/2016	DATE: 09/28/2016	
BY: [Signature]	BY: [Signature]	
DATE: 09/28/2016	DATE: 09/28/2016	

Total Wattage per Number of EcoSlim 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.

	ES26 Series		ES33 Series	
No. of Fixtures	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	2.64	63.4	1.95	46.8
2	5.28	126.8	3.9	93.6
3	7.92	190.2	5.85	140.4
4	10.56	253.6	7.8	187.2
5	13.2	317	9.75	234
6	15.84	380.4	11.7	280.8
7	18.48	443.8	13.65	327.6
8	21.12	507.2	15.6	374.4
9	23.76	570.6	17.55	421.2
10	26.4	634	19.5	468
11	29.04	697.4	21.45	514.8
12	31.68	760.8	23.4	561.6
13	34.32	824.2	25.35	608.4
14	36.96	887.6	27.3	655.2
15	39.6	951	29.25	702
16	42.24	1014.4	31.2	748.8
17	44.88	1077.8	33.15	795.6
18	47.52	1141.2	35.1	842.4
19	50.16	1204.6	37.05	889.2
20	52.8	1268	39	936
21	55.44	1331.4	40.95	982.8
22	58.08	1394.8	42.9	1029.6
23	60.72	1458.2	44.85	1076.4
24	63.36	1521.6	46.8	1123.2
25	66	1585	48.75	1170
26	68.64	1648.4	50.7	1216.8
27	71.28	1711.8	52.65	1263.6
28	73.92	1775.2	54.6	1310.4
29	76.56	1838.6	56.55	1357.2
30	79.2	1902	58.5	1404
31	81.84	1965.4	60.45	1450.8
32	84.48	2028.8	62.4	1497.6
33	87.12	2092.2	64.35	1544.4
34	89.76	2155.6	66.3	1591.2
35	92.4	2219	68.25	1638

Total Wattage per Number of EcoSlim 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.

	ES34 Series		ES36 Series	
No. of Fixtures	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	2.34	56.2	3.02	72.5
2	4.68	112.4	6.04	145
3	7.02	168.6	9.06	217.5
4	9.36	224.8	12.08	290
5	11.7	281	15.1	362.5
6	14.04	337.2	18.12	435
7	16.38	393.4	21.14	507.5
8	18.72	449.6	24.16	580
9	21.06	505.8	27.18	652.5
10	23.4	562	30.2	725
11	25.74	618.2	33.22	797.5
12	28.08	674.4	36.24	870
13	30.42	730.6	39.26	942.5
14	32.76	786.8	42.28	1015
15	35.1	843	45.3	1087.5
16	37.44	899.2	48.32	1160
17	39.78	955.4	51.34	1232.5
18	42.12	1011.6	54.36	1305
19	44.46	1067.8	57.38	1377.5
20	46.8	1124	60.4	1450
21	49.14	1180.2	63.42	1522.5
22	51.48	1236.4	66.44	1595
23	53.82	1292.6	69.46	1667.5
24	56.16	1348.8	72.48	1740
25	58.5	1405	75.5	1812.5
26	60.84	1461.2	78.52	1885
27	63.18	1517.4	81.54	1957.5
28	65.52	1573.6	84.56	2030
29	67.86	1629.8	87.58	2102.5
30	70.2	1686	90.6	2175
31	72.54	1742.2	93.62	2247.5
32	74.88	1798.4	96.64	2320
33	77.22	1854.6	99.66	2392.5
34	79.56	1910.8	102.68	2465
35	81.9	1967	105.7	2537.5

Total Wattage per Number of EcoSlim 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.

	ES44 Series	
No. of Fixtures	Required Current Amps	Required Current Watts
1	2.73	65.5
2	5.46	131
3	8.19	196.5
4	10.92	262
5	13.65	327.5
6	16.38	393
7	19.11	458.5
8	21.84	524
9	24.57	589.5
10	27.3	655
11	30.03	720.5
12	32.76	786
13	35.49	851.5
14	38.22	917
15	40.95	982.5
16	43.68	1048
17	46.41	1113.5
18	49.14	1179
19	51.87	1244.5
20	54.6	1310
21	57.33	1375.5
22	60.06	1441
23	62.79	1506.5
24	65.52	1572
25	68.25	1637.5
26	70.98	1703
27	73.71	1768.5
28	76.44	1834
29	79.17	1899.5
30	81.9	1965
31	84.63	2030.5
32	87.36	2096
33	90.09	2161.5
34	92.82	2227
35	95.55	2292.5

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