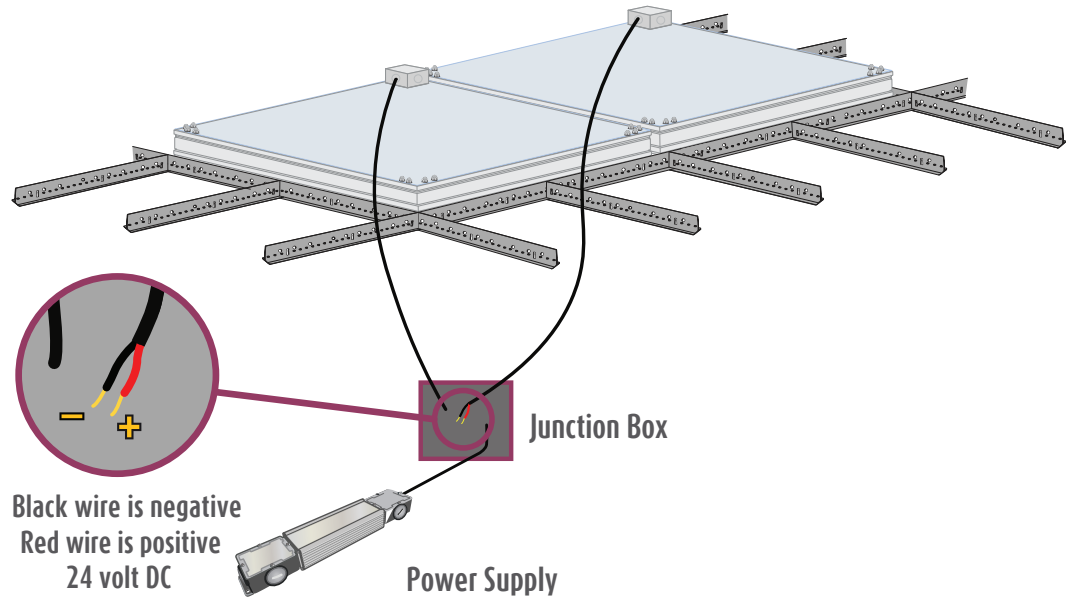


## Revelation w/ EcoSlim Electrical Instructions (Fixture Only)



### Installation Instructions includes:

Revelation w/ EcoSlim Electrical Instructions (Fixture 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)	27.6 lb	57.1	2.38A
ES33	34.8125 x 34.8125 x 3.72 (inches)	20.8 lb	42.7	1.78A
ES34	34.8125 x 46.8125 x 3.72 (inches)	27.6 lb	52.6	2.19A
ES36	34.8125 x 70.8125 x 3.72 (inches)	40 lb	65.5	2.73A
ES44	46.8125 x 46.8125 x 3.72 (inches)	35.3 lb	59	2.46A
ES26M	57 x 177 x 9.54 (cm)	12.6 kg	57.1	2.38A
ES33M	87 x 87 x 9.54 (cm)	9.5 kg	42.7	1.78A
ES34M	87 x 117 x 9.54 (cm)	12.6 kg	52.6	2.19A
ES36M	87 x 177 x 9.54 (cm)	18.1 kg	65.5	2.73A
ES44M	117 x 117 x 9.54 (cm)	16 kg	59	2.46A
ES26G	59.5 x 184.5 x 9.54 (cm)	12.6 kg	57.1	2.38A
ES33G	90.8 x 90.8 x 9.54 (cm)	9.5 kg	42.7	1.78A
ES34G	90.8 x 122 x 9.54 (cm)	12.6 kg	52.6	2.19A
ES36G	90.8 x 184.5 x 9.54 (cm)	18.1 kg	65.5	2.73A
ES44G	122 x 122 x 9.54 (cm)	16 kg	59	2.46A

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 are wired together in single or multiple circuits. Each circuit may be arranged in rows or clusters, depending on 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 (+) and black (-).
- 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!**



# 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.

No. of Fixtures	ES26 Series		ES33 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	2.38	57.1	1.78	42.7
2	4.76	114.2	3.56	85.4
3	7.14	171.3	5.34	128.1
4	9.52	228.4	7.12	170.8
5	11.9	285.5	8.9	213.5
6	14.28	342.6	10.68	256.2
7	16.66	399.7	12.46	298.9
8	19.04	456.8	14.24	341.6
9	21.42	513.9	16.02	384.3
10	23.8	571	17.8	427
11	26.18	628.1	19.58	469.7
12	28.56	685.2	21.36	512.4
13	30.94	742.3	23.14	555.1
14	33.32	799.4	24.92	597.8
15	35.7	856.5	26.7	640.5
16	38.08	913.6	28.48	683.2
17	40.46	970.7	30.26	725.9
18	42.84	1027.8	32.04	768.6
19	45.22	1084.9	33.82	811.3
20	47.6	1142	35.6	854
21	49.98	1199.1	37.38	896.7
22	52.36	1256.2	39.16	939.4
23	54.74	1313.3	40.94	982.1
24	57.12	1370.4	42.72	1024.8
25	59.5	1427.5	44.5	1067.5
26	61.88	1484.6	46.28	1110.2
27	64.26	1541.7	48.06	1152.9
28	66.64	1598.8	49.84	1195.6
29	69.02	1655.9	51.62	1238.3
30	71.4	1713	53.4	1281
31	73.78	1770.1	55.18	1323.7
32	76.16	1827.2	56.96	1366.4
33	78.54	1884.3	58.74	1409.1
34	80.92	1941.4	60.52	1451.8
35	83.3	1998.5	62.3	1494.5
36	85.68	2055.6	64.08	1537.2

# 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.

No. of Fixtures	ES34 Series		ES36 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	2.19	52.6	2.73	65.5
2	4.38	105.2	5.46	131
3	6.57	157.8	8.19	196.5
4	8.76	210.4	10.92	262
5	10.95	263	13.65	327.5
6	13.14	315.6	16.38	393
7	15.33	368.2	19.11	458.5
8	17.52	420.8	21.84	524
9	19.71	473.4	24.57	589.5
10	21.9	526	27.3	655
11	24.09	578.6	30.03	720.5
12	26.28	631.2	32.76	786
13	28.47	683.8	35.49	851.5
14	30.66	736.4	38.22	917
15	32.85	789	40.95	982.5
16	35.04	841.6	43.68	1048
17	37.23	894.2	46.41	1113.5
18	39.42	946.8	49.14	1179
19	41.61	999.4	51.87	1244.5
20	43.8	1052	54.6	1310
21	45.99	1104.6	57.33	1375.5
22	48.18	1157.2	60.06	1441
23	50.37	1209.8	62.79	1506.5
24	52.56	1262.4	65.52	1572
25	54.75	1315	68.25	1637.5
26	56.94	1367.6	70.98	1703
27	59.13	1420.2	73.71	1768.5
28	61.32	1472.8	76.44	1834
29	63.51	1525.4	79.17	1899.5
30	65.7	1578	81.9	1965
31	67.89	1630.6	84.63	2030.5
32	70.08	1683.2	87.36	2096
33	72.27	1735.8	90.09	2161.5
34	74.46	1788.4	92.82	2227
35	76.65	1841	95.55	2292.5
36	78.84	1893.6	98.28	2358

# 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.

No. of Fixtures	ES44 Series	
	Required Current Amps	Required Current Watts
1	2.46	59
2	4.92	118
3	7.38	177
4	9.84	236
5	12.3	295
6	14.76	354
7	17.22	413
8	19.68	472
9	22.14	531
10	24.6	590
11	27.06	649
12	29.52	708
13	31.98	767
14	34.44	826
15	36.9	885
16	39.36	944
17	41.82	1003
18	44.28	1062
19	46.74	1121
20	49.2	1180
21	51.66	1239
22	54.12	1298
23	56.58	1357
24	59.04	1416
25	61.5	1475
26	63.96	1534
27	66.42	1593
28	68.88	1652
29	71.34	1711
30	73.8	1770
31	76.26	1829
32	78.72	1888
33	81.18	1947
34	83.64	2006
35	86.1	2065
36	88.56	2124



# 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