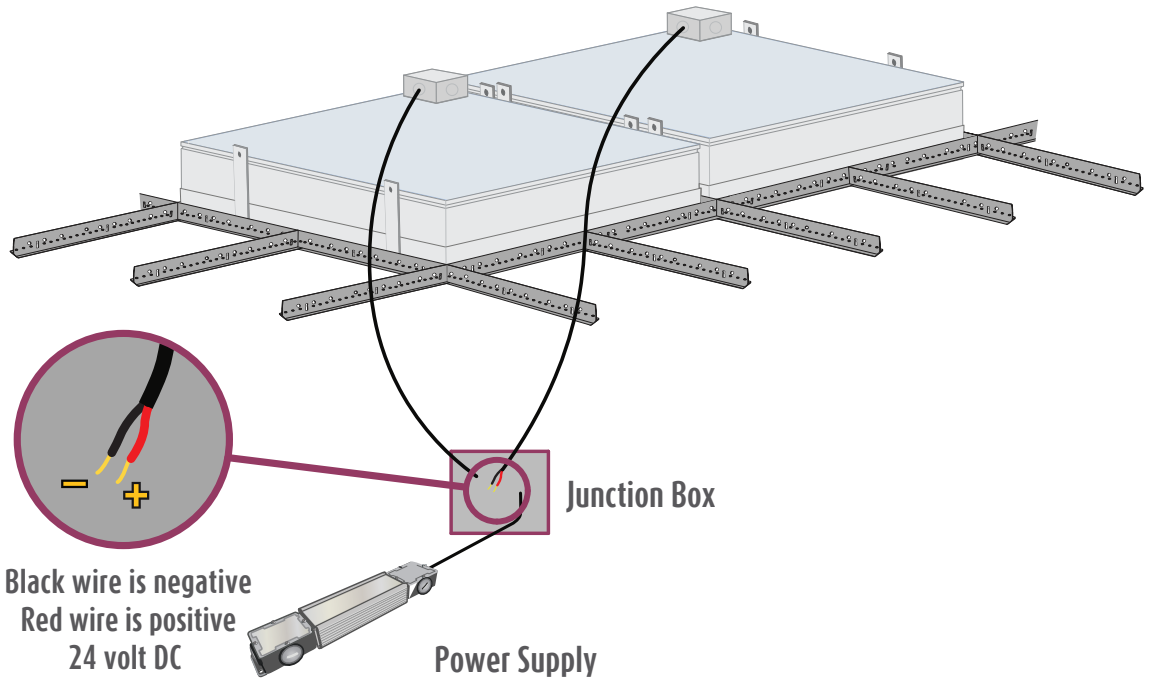


## Revelation w/ EcoPlus Electrical Instructions (Fixture Only)



### Installation Instructions includes:

Revelation w/ EcoPlus Electrical Instructions (Fixture Only)

Wiring Diagram EL001181

Total Wattage per Number of EcoPlus Fixtures

Installation specific 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 Sky Factory.

## Revelation w/ EcoPlus Electrical Requirements:

EP24 Series = EP24, EP24M, EP24G

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

EP46 Series = EP46, EP46M, EP46G

NOTE: For custom sizes and/or client-specified power supplies, see installation specific wiring diagram included (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 6-7

For installations with one or more custom sizes or client-specified power supplies, see

installation specific wiring diagram attached

For dimming requirements, see page 4.

RF filter, if used, is not provided by 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.*

## Non-Dimmable and Dimmable Certification:

ES22 Series, ES24 Series, ES26 Series, ES33 Series, ES34 Series, ES36 Series, ES44 Series, ES46 Series, ESCST Series, EP22 Series, EP24 Series, EP26 Series, EP33 Series, EP34 Series, EP36 Series, EP44 Series, EP46 Series, EPCST Series fixtures when used with 24PS HLG Power System UL, CSA and CE Listed by Intertek Group plc

## Step 1: Wiring the Revelation fixtures to the power supply

See wiring diagram and charts on pages 5-7 and installation specific wiring diagram (where applicable)

EcoPlus Lighting System - EP24 to EP46 Series				
TSF Model No.	Light Box Dimensions and Weight Only		System Wattage (Max)	Input Current @ 24 Volts DC
	WxLxH	Weight		
EP24	22.8125 x 46.8125 x 5.85 (inches)	10.2 lb	47.1	1.96A
EP26	22.8125 x 70.8125 x 5.85 (inches)	16.7 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)	15.9 lb	69.1	2.88A
EP36	34.8125 x 70.8125 x 5.85 (inches)	22.4 lb	103.7	4.32A
EP44	46.8125 x 46.8125 x 5.85 (inches)	19.9 lb	92.2	3.84A
EP46	46.8125 x 70.8125 x 5.85 (inches)	27.8 lb	138	5.75A
EP24M	57 x 117 x 14.86 (cm)	4.5 kg	47.1	1.96A
EP26M	57 x 177 x 14.86 (cm)	7.4 kg	69.1	2.88A
EP33M	87 x 87 x 14.86 (cm)	5.6 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)	9.9 kg	103.7	4.32A
EP44M	117 x 117 x 14.86 (cm)	8.8 kg	92.2	3.84A
EP46M	117 x 177 x 14.86 (cm)	12.3 kg	138	5.75A
EP24G	59.5 x 122 x 14.86 (cm)	4.8 kg	47.1	1.96A
EP26G	59.5 x 184.5 x 14.86 (cm)	7.9 kg	69.1	2.88A
EP33G	90.8 x 90.8 x 14.86 (cm)	5.9 kg	51.8	2.16A
EP34G	90.8 x 122 x 14.86 (cm)	7.5 kg	69.1	2.88A
EP36G	90.8 x 184.5 x 14.86 (cm)	10.6 kg	103.7	4.32A
EP44G	122 x 122 x 14.86 (cm)	9.4 kg	92.2	3.84A
EP46G	122 x 184.5 x 14.86 (cm)	13.1 kg	138	5.75A

NOTE: For custom sizes, see also installation specific wiring diagram



**Notice:** The LED fixtures are 24V DC ONLY.

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

## Step 1 continued

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 (-).
- EP36, -44, -46 & ES36 -44-, -46 have two sets of leads and will be wired together red (+) to red (+) and black (-) to black (-).
- Fixture wire size 18 AWG stranded.

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.

Wire gauge must conform to local and national codes. Voltage drop of no more than 2% is recommended.

## 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 Sky Factory.

## Step 3: Checking the polarity



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

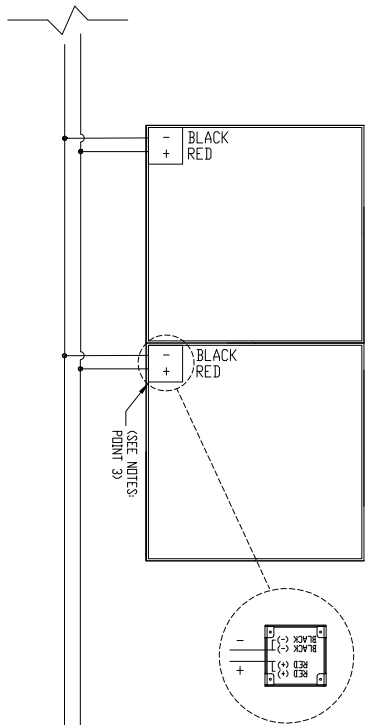
Red wires on the fixtures go to the "+" terminals of the power supply

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

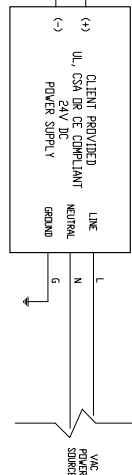
**IF THE SYSTEM IS WIRED BACKWARD, IT WILL DESTROY THE LED'S!**

EP AND ES SERIES FIXTURES  
WITH CLIENT PROVIDED POWER SUPPLY

- ECOSLIM  
 EP22 SERIES, EP24 SERIES,  
 EP26 SERIES, EP33 SERIES,  
 EP34 SERIES, EP36 SERIES,  
 EP44 SERIES, EP46 SERIES,  
 EPCST SERIES
- ECOSLIM  
 ES22 SERIES, ES24 SERIES,  
 ES26 SERIES, ES33 SERIES,  
 ES34 SERIES, ES36 SERIES,  
 ES44 SERIES, ES46 SERIES,  
 ESCST SERIES



WIRE AND JUNCTION BOXES  
SUPPLIED BY OTHERS



TOTAL VOLTAGE OF POWER SUPPLY  
MUST BE EQUAL TO OR GREATER THAN  
TOTAL VOLTAGE 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. EP36,44,46 AND ES36,44,46 HAVE TWO SETS OF LEADS.  
 ALWAYS CONNECT RED (+) TO RED (+) AND BLACK (-)  
 TO BLACK (-).  
 4. SEE ALSO TOTAL VOLTAGE PER NUMBER OF ECOSLIM FIXTURES CHART.  
 5. 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 LEADS AND WILL  
 VOID THE WARRANTY!

		DATE: 11/18/2022 DRAWN BY: RJA CHECKED BY: JTB SCALE: 1/8" = 1'-0"
PROJECT: 11/18/2022 TITLE: EP AND ES SERIES FIXTURES WITH CLIENT PROVIDED POWER SUPPLY	SHEET NO.: E1001181	REV: 1

# 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	EP24 Series		EP26 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	1.96	47.04	2.88	69.12
2	3.92	94.08	5.76	138.24
3	5.88	141.12	8.64	207.36
4	7.84	188.16	11.52	276.48
5	9.8	235.2	14.4	345.6
6	11.76	282.24	17.28	414.72
7	13.72	329.28	20.16	483.84
8	15.68	376.32	23.04	552.96
9	17.64	423.36	25.92	622.08
10	19.6	470.4	28.8	691.2
11	21.56	517.44	31.68	760.32
12	23.52	564.48	34.56	829.44

# 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	EP33 Series		EP34 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	2.16	51.84	2.88	69.12
2	4.32	103.68	5.76	138.24
3	6.48	155.52	8.64	207.36
4	8.64	207.36	11.52	276.48
5	10.8	259.2	14.4	345.6
6	12.96	311.04	17.28	414.72
7	15.12	362.88	20.16	483.84
8	17.28	414.72	23.04	552.96
9	19.44	466.56	25.92	622.08
10	21.6	518.4	28.8	691.2
11	23.76	570.24	31.68	760.32
12	25.92	622.08	34.56	829.44

## 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	EP36 Series		EP44 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	4.32	103.68	3.84	92.16
2	8.64	207.36	7.68	184.32
3	12.96	311.04	11.52	276.48
4	17.28	414.72	15.36	368.64
5	21.6	518.4	19.2	460.8
6	25.92	622.08	23.04	552.96
7	30.24	725.76	26.88	645.12
8	34.56	829.44	30.72	737.28
9	38.88	933.12	34.56	829.44
10	43.2	1036.8	38.4	921.6
11	47.52	1140.48	42.24	1013.76
12	51.84	1244.16	46.08	1105.92

## 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	EP46 Series	
	Required Current Amps	Required Current Watts
1	5.75	138
2	11.5	276
3	17.25	414
4	23	552
5	28.75	690
6	34.5	828
7	40.25	966
8	46	1104
9	51.75	1242
10	57.5	1380
11	63.25	1518
12	69	1656