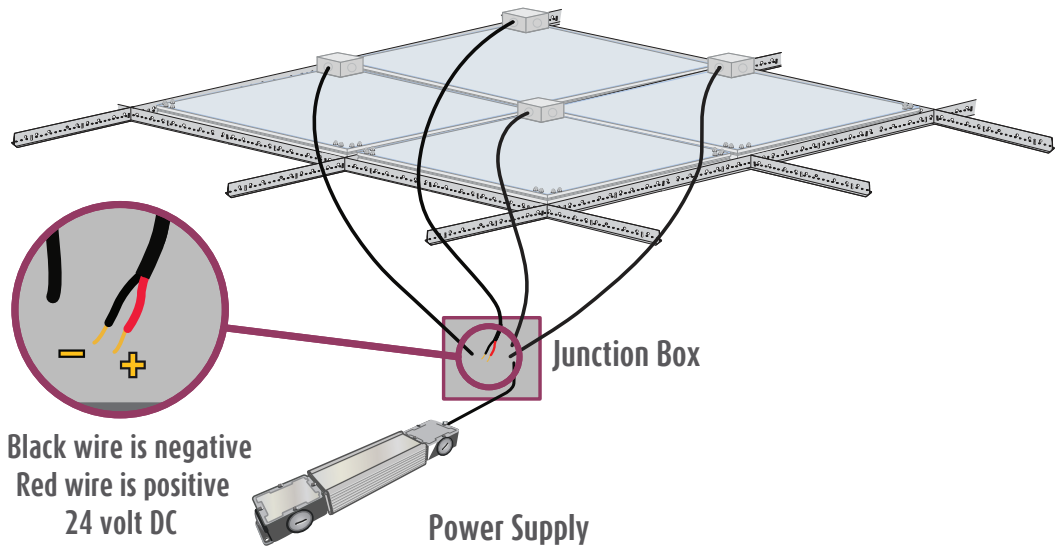




## Classic w/ EcoSlim Electrical Instructions (Fixture Only)



### Installation Instructions includes:

Classic w/ EcoSlim Electrical Instructions (Fixture Only)

Wiring Diagram EL001181

Total Wattage per Number of EcoSlim 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.

## Classic w/ EcoSlim Electrical Requirements:

ES22 Series: ES22 (2' x 2'), ES22M (60cm x 60cm), ES22G (62.5cm x 62.5cm)

ES24 Series: ES24 (2' x 4'), ES24M (60cm x 120cm), ES24G (62.5cm x 125cm)

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

For installations with one or more custom sizes, 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 EcoSlim fixtures to the power supply

See supporting drawing and chart on pages 5-6 and installation specific wiring diagram (where applicable)

EcoSlim Lighting System - ES22 and ES24				
TSF Model No.	Dimensions: WxLxH	Weight	System Wattage (Max)	Input Current @ 24 Volts DC
ES22	23.75 x 23.75 x 3.72 (inches)	10.5 lb	24.5	1.02 A
ES24	23.75 x 47.75 x 3.72 (inches)	19.7 lb	36.7	1.53 A
ES22M	59.4 x 59.4 x 9.45 (cm)	4.76 kg	24.5	1.02 A
ES24M	59.4 x 119.4 x 9.45 (cm)	8.94 kg	36.7	1.53 A
ES22G	61.9 x 61.9 x 9.45 (cm)	4.76 kg	24.5	1.02 A
ES24G	61.9 x 124.4 x 9.45 (cm)	8.94 kg	36.7	1.53 A

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.**

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 (-).
- Where fixtures have multiple junction boxes, see installation specific wiring diagram included.
- 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 3% 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:

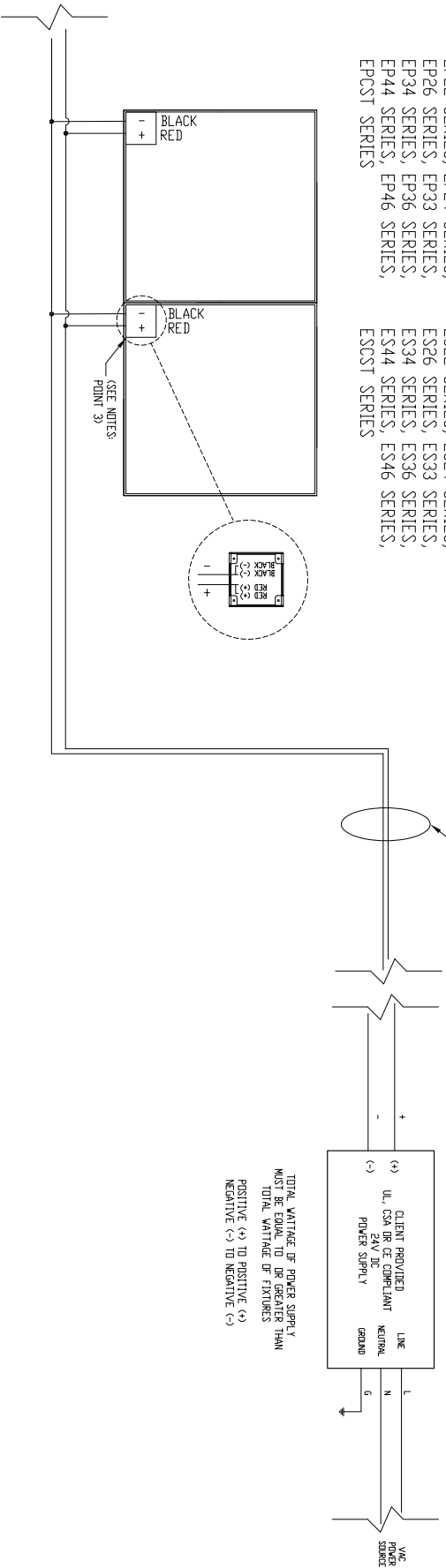
Red wires on the fixtures go to the "+" terminals of the power supply


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

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



- NOTES:  
1. ALL FIXTURES 24V DC  ONLY.  
2. JUNCTION BDX 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 VATTAGE PER NUMBER OF EODSLIM 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 LED'S AND WILL  
VOID THE WARRANTY!

<b>Sky Factory</b>		DATE: 08/11/2018	REV: 1
PROJECT: 18010181		TITLE: 18010181	1
DRAWN BY: J. B. BROWN		CHECKED BY: J. B. BROWN	DATE: 08/07/2018
SCALE: AS SHOWN		SHEET 1 OF 1	

# Total Wattage per Number of EcoSlim Fixtures

ES22 Series and ES24 Series EcoSlim 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 EcoSlims in a given installation.

No. of EcoSlims	ES22 Series		ES24 Series	
	Required Current Amps	Required Current Watts	Required Current Amps	Required Current Watts
1	1.02	24.5	1.53	36.7
2	2.04	49.0	3.06	73.4
3	3.06	73.4	4.59	110.2
4	4.08	97.9	6.12	146.9
5	5.1	122.4	7.65	183.6
6	6.12	146.9	9.18	220.3
7	7.14	171.4	10.71	257.0
8	8.16	195.8	12.24	293.8
9	9.18	220.3	13.77	330.5
10	10.2	244.8	15.3	367.2
11	11.22	269.3	16.83	403.9
12	12.24	293.8	18.36	440.6
13	13.26	318.2	19.89	477.4
14	14.28	342.7	21.42	514.1
15	15.3	367.2	22.95	550.8
16	16.32	391.7	24.48	587.5
17	17.34	416.2	26.01	624.2
18	18.36	440.6	27.54	661.0
19	19.38	465.1	29.07	697.7
20	20.4	489.6	30.6	734.4
21	21.42	514.1	32.13	771.1
22	22.44	538.6	33.66	807.8
23	23.46	563.0	35.19	844.6
24	24.48	587.5	36.72	881.3
25	25.5	612.0	38.25	918.0
26	26.52	636.5	39.78	954.7
27	27.54	661.0	41.31	991.4
28	28.56	685.4	42.84	1028.2
29	29.58	709.9	44.37	1064.9
30	30.6	734.4	45.9	1101.6
31	31.62	758.9	47.43	1138.3
32	32.64	783.4	48.96	1175.0
33	33.66	807.8	50.49	1211.8
34	34.68	832.3	52.02	1248.5
35	35.7	856.8	53.55	1285.2
36	36.72	881.3	55.08	1321.9