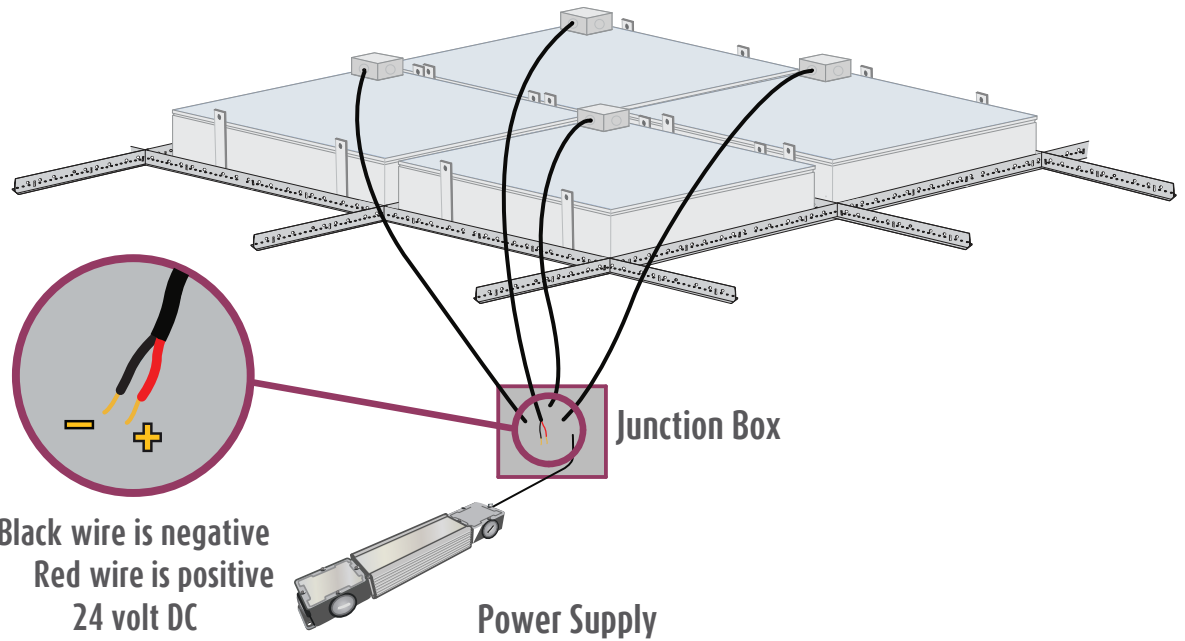


Custom EcoPlus Electrical Instructions (Fixture Only)



Installation Instructions includes:

Custom EcoPlus Electrical Instructions (Fixture Only)

EL001248

Wire Sizing Chart

Electrical Layout EL1 & EL2

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.

Custom EcoPlus Electrical Requirements:

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 installation specific fixture wattage, see

Electrical Layout EL1 & EL2

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 EcoPlus fixtures to the power supply

See also Electrical Layout EL1 & EL2



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 (+) and black (-).
- Wire size 18 AWG stranded.
- NOTE: Where a fixture has multiple junction boxes, each junction box will be included in a separate circuit.
See EL2

For installation specific number of fixtures per power system, see Electrical Layout EL1 & EL2

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:

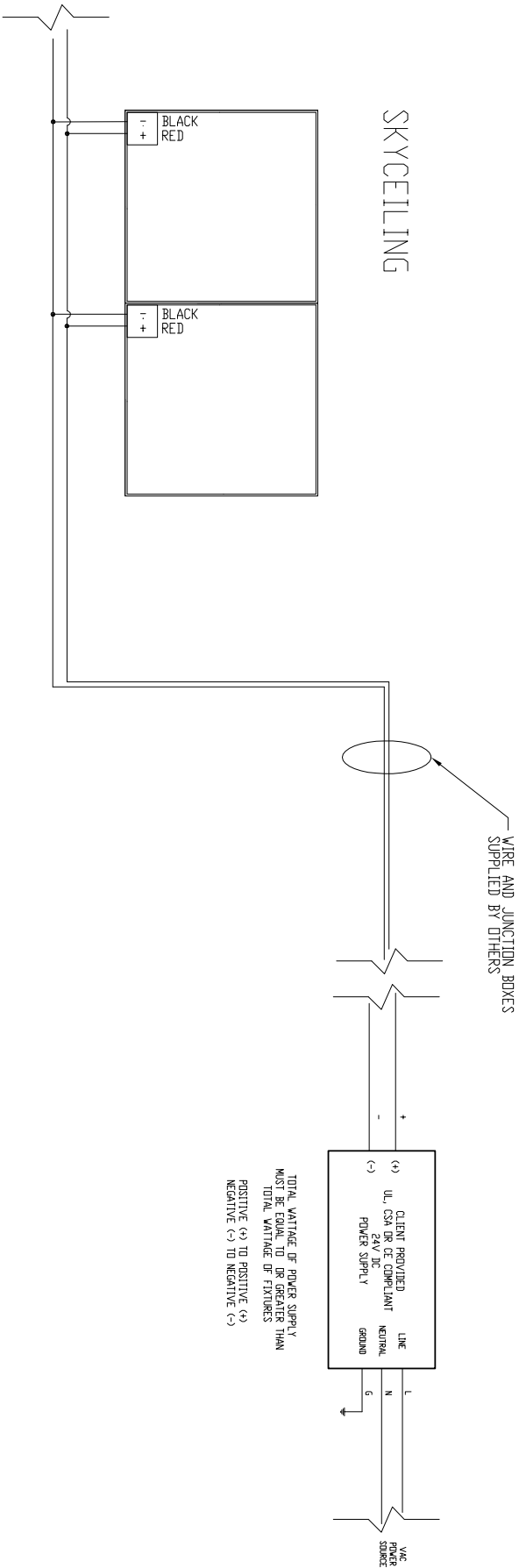
Red wires on the fixtures go to the “+” terminals of the power supply

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!

CIRCLE, ELLIPSE OR CUSTOM
ECOPLUS WITH CLIENT PROVIDED POWER SUPPLY

SKYCEILING



- 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 INSTALLATION SPECIFIC E11 AND E12 FOR WATTAGE, 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 LED'S AND WILL VOID THE WARRANTY!

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

SkyFactory		SPEC. NO.	E10012148	REV.	A
<small> MANUFACTURER OF SKYCEILING 10000 WILLOW CREEK DRIVE SUITE 100 DALLAS, TX 75243 TEL: 972.281.1111 FAX: 972.281.1112 WWW.SKYFACTORY.COM </small>		TITLE	WIRING FOR SKYCEILING	DATE	02/27/2017
<small> SKYCEILING IS A REGISTERED TRADEMARK OF SKYFACTORY, INC. ALL RIGHTS RESERVED. © 2017 SKYFACTORY, INC. </small>		SCALE	AS SHOWN	SHEET	1 OF 1

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