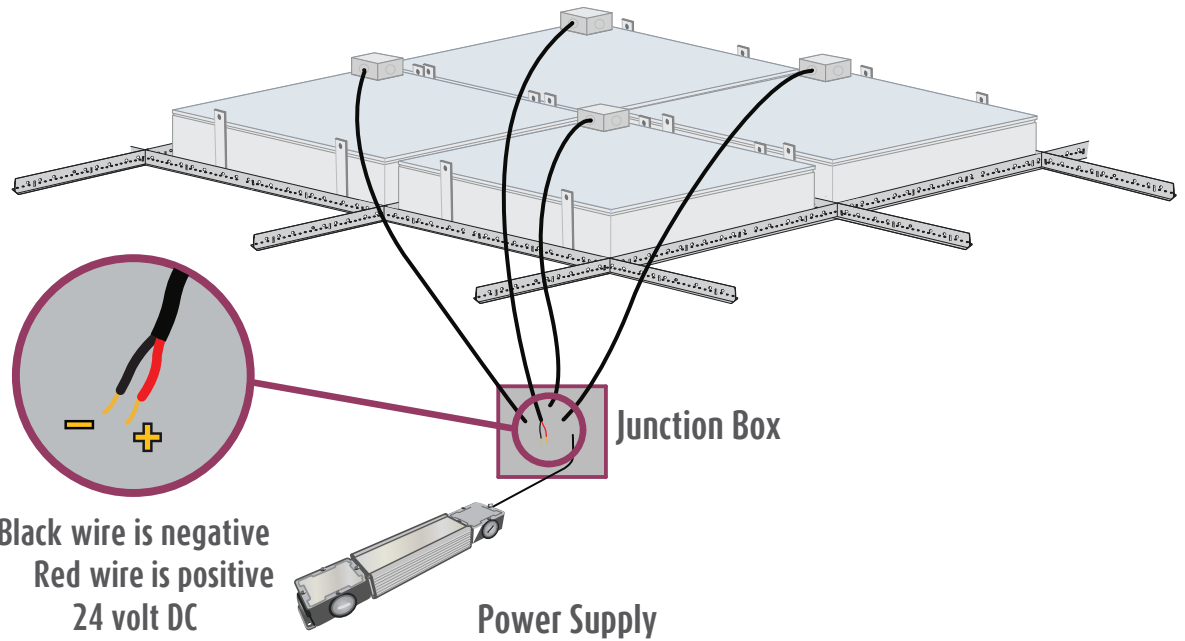


## Custom EcoPlus Electrical Instructions (Fixture Only)



### Installation Instructions includes:

Custom EcoPlus Electrical Instructions (Fixture Only)

Wiring Diagram EL001248

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 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 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 and EPCST Series fixtures when used with 24PS HLG Power System UL, CSA and CE Listed by Intertek Group plc

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

See wiring diagram on page 5 and 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 (-).
- Some fixture junction boxes have two sets of leads. When making connections, leads are wired together red (+) to red (+) and black (-) to black (-) unless otherwise specified.
- Where fixtures have multiple junction boxes, see fixture and/or installation specific wiring diagram(s) included.
- Wire size 18 AWG stranded.

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

Wiring from fixtures to V DC side of client-provided or client-specified 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



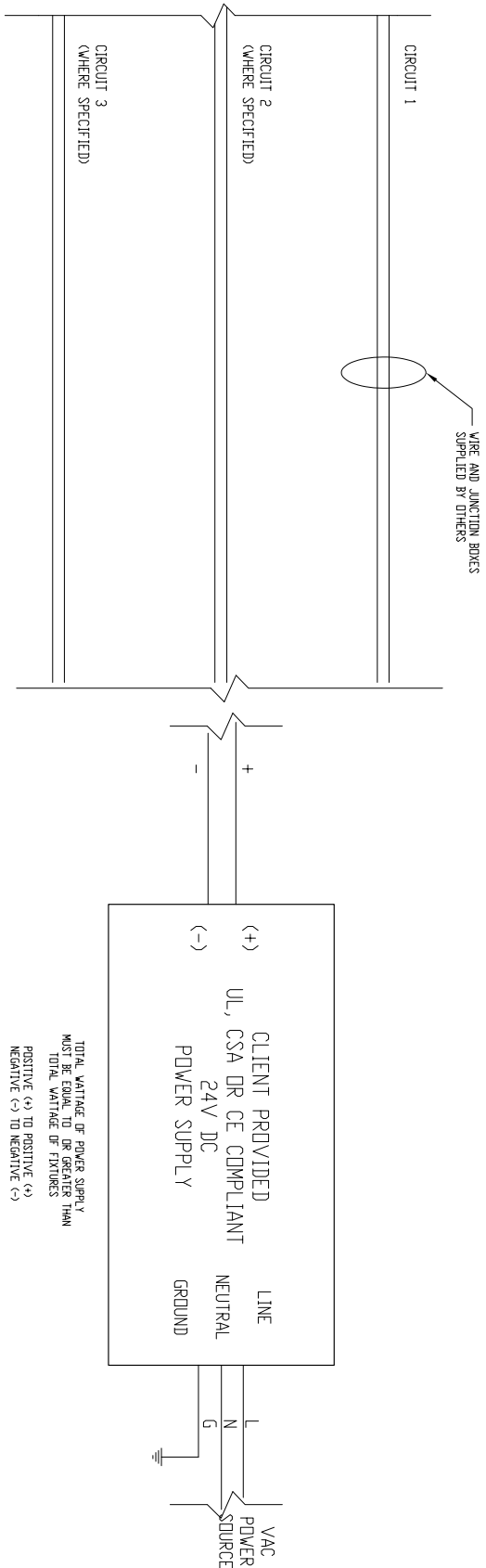
**Notice:** CHECK THE POLARITY BEFORE TURNING ON POWER. MAKE SURE:

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!**

APERTURE, CIRCLE, ELLIPSE AND CUSTOM ECOPLUS  
WITH CLIENT PROVIDED POWER SUPPLY



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- 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 INSTALLATION SPECIFIC E11 AND E12 FOR WATTAGE. USE OF SKY FACTORY APPROVED DIMMING SYSTEM ONLY! CONTACT THE SKY FACTORY IF YOU PLAN ON USING A DIMMING SYSTEM PROVIDED BY OTHERS.
  4. NOTICE: DIMMING USING NON-APPROVED SYSTEMS MAY PERMANENTLY DAMAGE LEDS AND WILL VOID THE WARRANTY!

|  |                |          |  |      |            |
|--|----------------|----------|--|------|------------|
| <b>SKY Factory</b>   |                | DOC. NO. | EL0012148  | REV. | C          |
| <small>                 MANUFACTURER OF EQUIPMENT:<br/>                 SKY FACTORY<br/>                 10000 WILSON BLVD<br/>                 SUITE 100<br/>                 VAN NUYS, CA 91411<br/>                 TEL: 818-708-8888<br/>                 FAX: 818-708-8889<br/>                 WWW.SKYFACTORY.COM             </small> |                | TITLE    | CHANGE FROM E11 AND E12 TO<br>APERTURE, CIRCLE, ELLIPSE AND<br>CUSTOM ECOPLUS WITH CLIENT<br>PROVIDED POWER SUPPLY |      |            |
| DATE   | 11/11/2014     | BY       | DANIEL GOSWAMI   |      |            |
| SCALE  | AS SHOWN       | DATE     | 11/11/2014   |      |            |
| BY   | DANIEL GOSWAMI | SCALE    | AS SHOWN   | DATE | 11/11/2014 |