Custom EcoPlus Electrical Instructions (Fixture Only)

Installation Instructions includes:

Custom EcoPlus Electrical Instructions (Fixture Only)

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:**

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

See drawing 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 (-).
- 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.

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!**