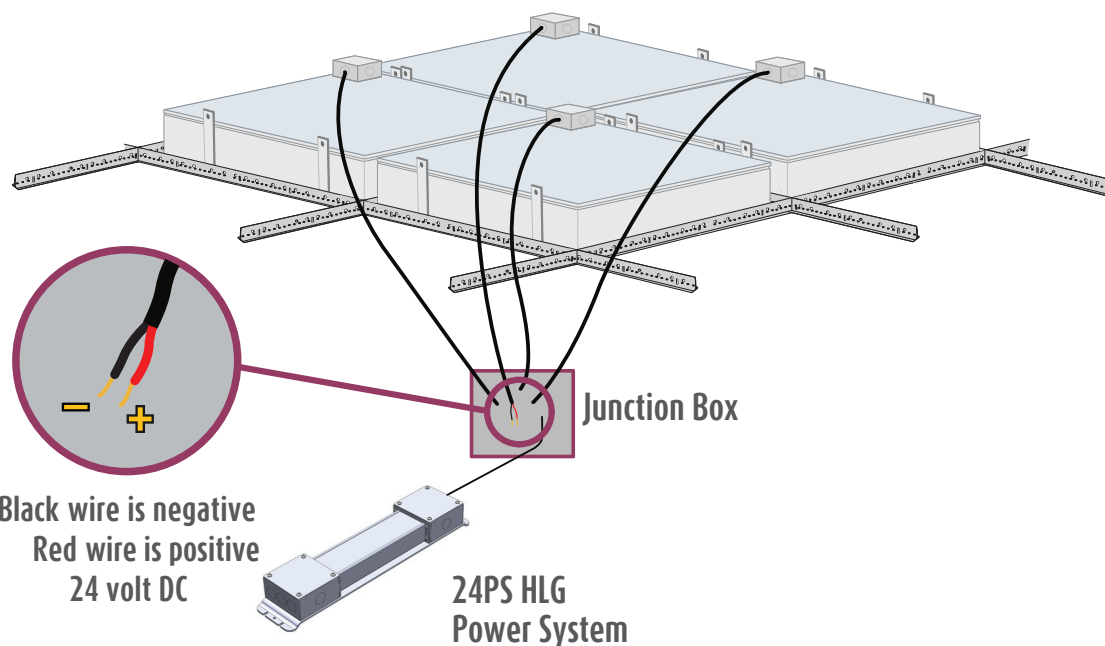




Custom EcoPlus Electrical Instructions (24PS HLG)



Installation Packet Includes:

Custom EcoPlus Electrical Instructions (24PS HLG)

- EL001250 - Without Dimmer
- EL001450 - With Lutron Dimmers
- EL001449 - With Jung Dimmers
- EL001455 - Lutron Dimmers with Multiple Power Systems
- EL001447 - Jung Dimmers with Multiple Power Systems

Electrical Layout EL1 & EL2

Sky Factory 24PS HLG Power System Installation

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 mounted in dry locations only.

EcoPlus fixtures must be powered by provided UL, CSA and CE Compliant 24PS HLG Power System

Sky Factory 24PS HLG Power System:

Input (Typ): 90-305V, 47 - 63 Hz

Output: 24V DC

Maximum Watts (useable) per power system: 600 Watts

Available sizes: 40W, 60W, 80W, 100W, 120W, 150W, 185W, 240W, 320W, 480W, 600W

Power System aluminum enclosure

Mounted on baseplate with junction box on input and output ends

For mounting dimensions and weights, see "Sky Factory 24PS HLG Power System Installation"

For power system wire sizes, see "Sky Factory 24PS HLG Power System Installation"

Power system must have 2" clearance for air flow. Wall mount recommended.

Power system must be mounted in dry locations.

For installation specific number of power systems and number of fixtures per power system,

see Electrical Layout EL1 & EL2

For EcoPlus with 24PS HLG Power System general wiring diagrams, see

EL001250, EL001449 & EL001450

For single dimmer control and multiple power systems, see

EL001447 & EL001455

RF filter, if used, is not provided by Sky Factory. One filter per power system required.

Custom EcoPlus electrical requirements (cont'd):

Sky Factory provided dimmer control (where specified):

Lutron Diva DVSTV 0 - 10V dimmer/switch (UL & CSA compliant)

Input: auto-ranging 120 - 277V AC

Lutron Diva DVTV 0 - 10V dimmer/switch and PP-DV power pack (UL & CSA compliant)

Input: auto-ranging 120 - 277V AC

Lutron Diva mounts in standard single-gang electrical box

White standard, other colors available on request

Jung 240-10 dimmer/switch and external relay where specified (CE compliant)

Input: 230 - 240V AC

Installs in appliance box to DIN 49073

For dimming requirements, see page 5.

For dimmer wiring diagrams, see dimmer control (and relay where specified) and wiring diagrams included

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 system

See also wiring diagrams on pages 6-10 and 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 are wired together in single or multiple circuits.

Each circuit is dedicated to a single power system and may be arranged in rows or clusters, depending on installation.

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

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.

Wiring from fixtures to V DC side of provided power system is polarized, positive (+) to positive (+) and negative (-) to negative (-):

EcoPlus fixture red "+" to power system **Vo+**

EcoPlus fixture black "-" to power system **Vo-**

For power system V DC wire sizes, see EL001250

HLG-480H-24B and HLG-600H-24B have two sets of output leads. Meanwell recommends loading no more than:

240 Watts on each set of cables for HLG-480H-24B

480 Watts on each set of cables for HLG-600H-24B

Wire and additional junction boxes from the fixtures to the power system supplied by others.

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

Step 2: Wiring the power system to source V AC

Run power to V AC side of the power system. For power system V AC wire size, see “Sky Factory 24PS HLG Power System Installation”

Load to power system **ACL**

Neutral to power system **ACN**

Ground to power system  **(GREEN/YELLOW)**

Wire gauge must conform to local and national codes.

Install the power switch on the V AC input side of the power system.

Step 3: Dimming requirements

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!

Wiring a Sky Factory provided dimmer control:

To wire the dimmer control (and external relay where specified), refer to wiring diagram included with dimmer and relay and wiring diagrams included.

Step 4: Checking the polarity



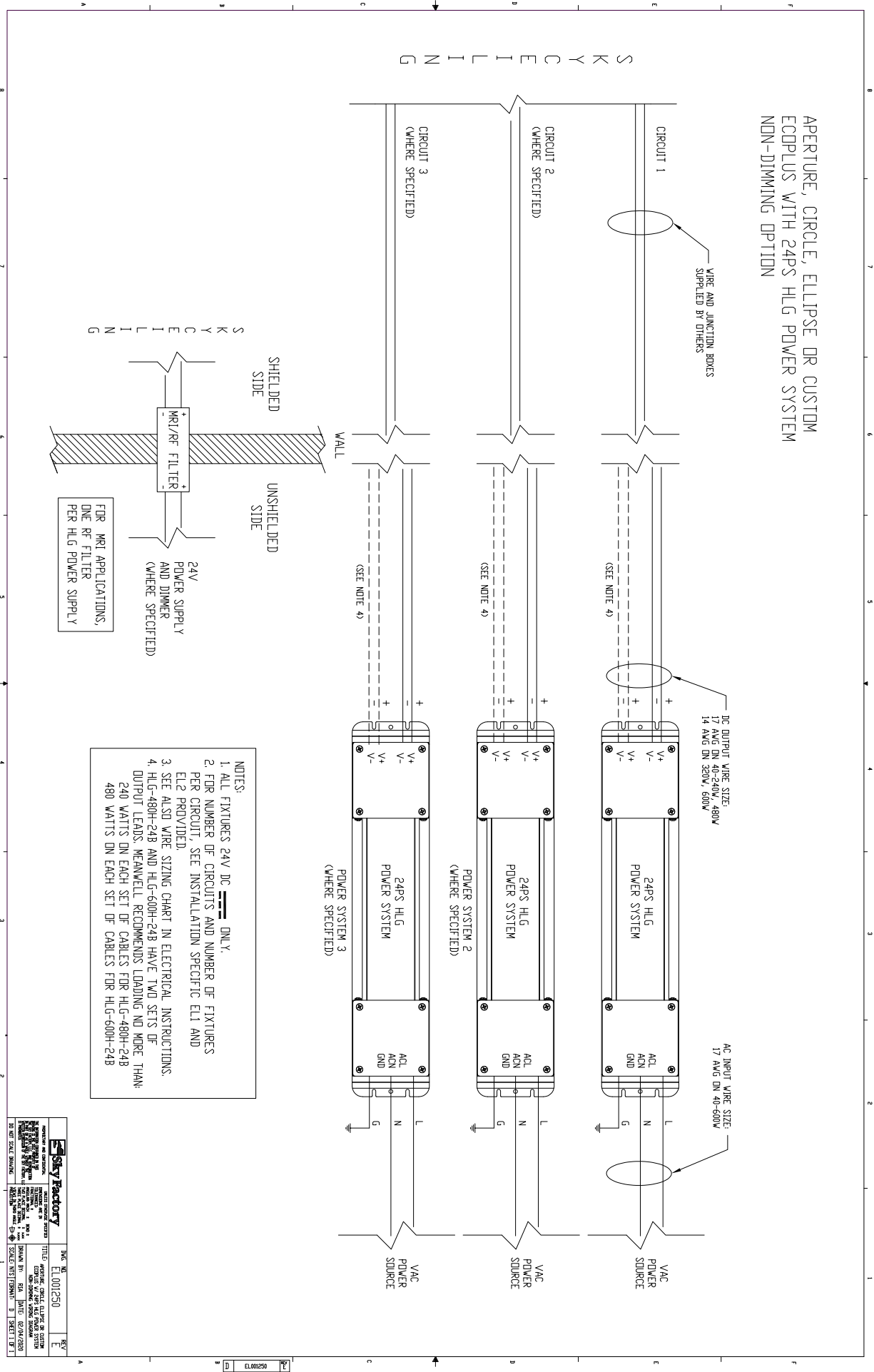
Notice: CHECK THE POLARITY BEFORE TURNING ON POWER. MAKE SURE:

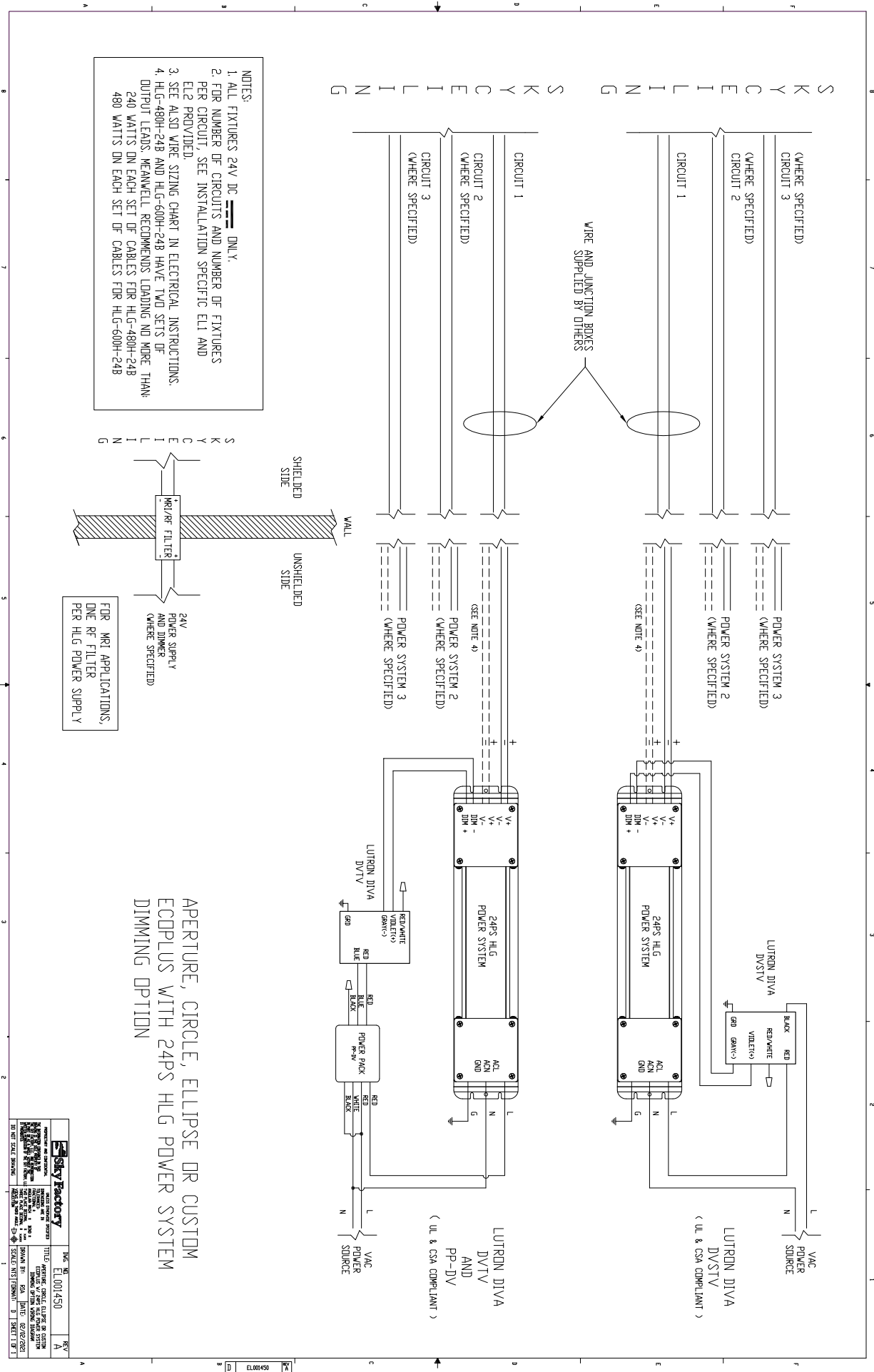
Red wires on the fixtures go to the “+” terminals of the power supply

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

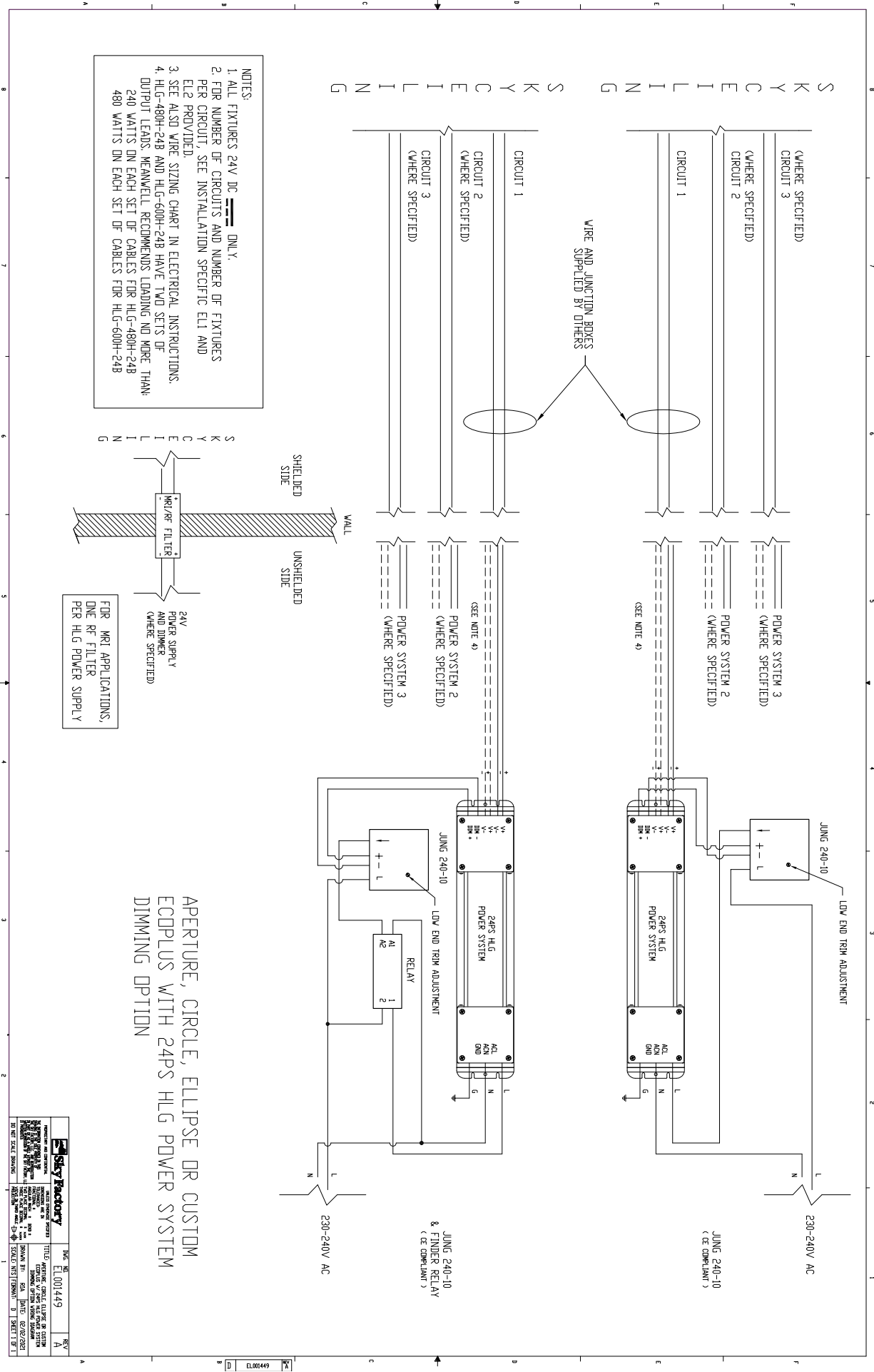
IF THE SYSTEM IS WIRED BACKWARD, IT WILL DESTROY THE LED'S!

APERTURE, CIRCLE, ELLIPSE OR CUSTOM
ECOPUS WITH 24PS HLG POWER SYSTEM
NON-DIMMING OPTION

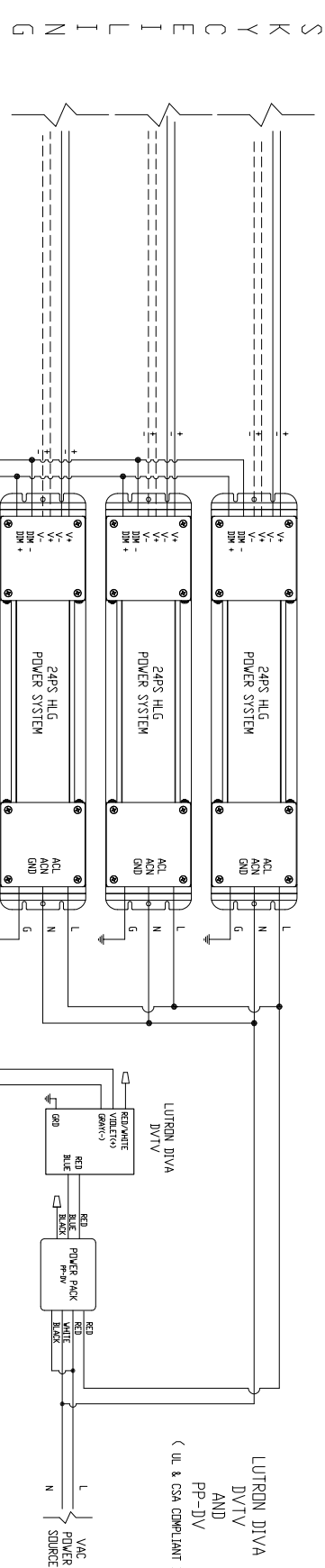
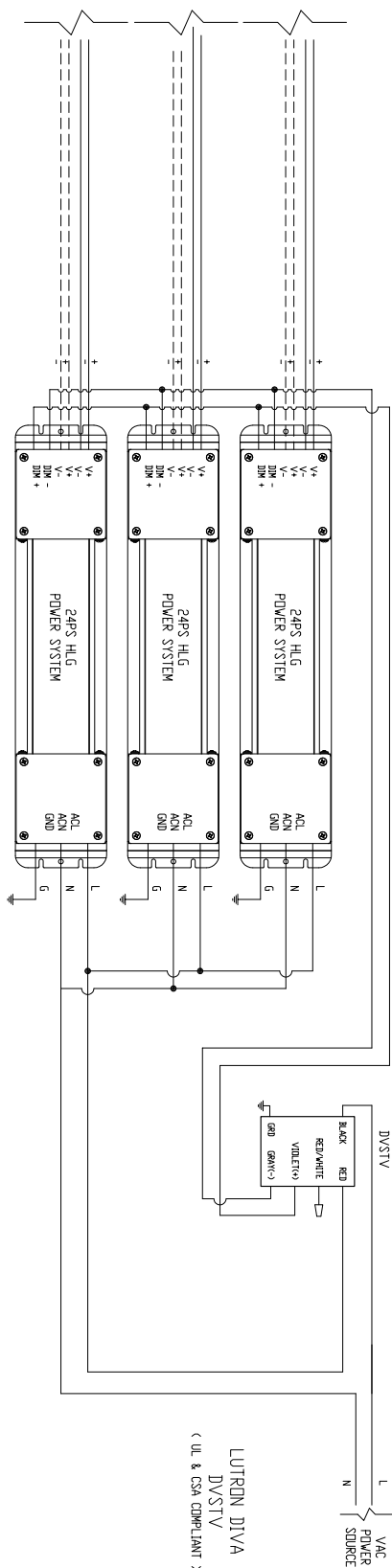




Sky Factory	
MANUFACTURED BY SKY FACTORY	DATE: 02/07/2021
DESIGNED BY SKY FACTORY	DATE: 02/07/2021
REVISION: 1.0	DATE: 02/07/2021
TITLE: APERTURE, CIRCLE, ELLIPSE OR CUSTOM ECOPLUS WITH 24PS HLG POWER SYSTEM DIMMING OPTION	DATE: 02/07/2021
PROJECT: 1817 (DRN)	DATE: 02/07/2021
SHEET: 1 OF 1	DATE: 02/07/2021

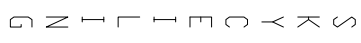


MULTIPLE 24PS HLG POWER SYSTEMS
WITH DVSTV AND DTV + PP-DV
DIMMING OPTION

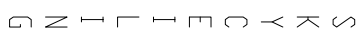


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