

Pre-Installation Checklist

Must Read Instructions Before Any Installations

Hot Shock LED Failure

Constant current LED drivers rise to the maximum output voltage in the absence of a load. Without a load the LED driver output is 75VDC and if connected to the LED fixture when on/hot the LED's will be permanently damaged.

The LED driver needs to off/power down first before being connected to the fixture so that when the driver turns on with the fixture connected, the LED driver can only provide the power the LED driver is required, to operate the LED fixture properly.

If the LED driver is connected to the fixture hot/on, it will send 75VDC to the diodes, which will fry them and cause the LED's to burn out (It will light up, then turns off immediately).

Clarté Lighting Operating Voltage when LED Driver and LED fixture are turned on connected

Par 8 = 11-12VDC

Par 16 = 9-10VDC

Par 20 = 18-20VDC

Par 30 = 27-29VDC

Par 38 = 36-38VDC

CAUTION!

- **THIS MLV LED FIXTURE IS DESIGNED FOR CONNECTION TO FORWARD PHASE SCR or TRIAC DIMMER ONLY.**
- **DO NOT CONNECT FIXTURE TO SWITCHED POWER VIA RELAY, TOGGLE SWITCH, OR A BREAKER.**
- **DO NOT CONNECT FIXTURE TO UNIVERSAL OR PHASE ADAPTIVE IGBT OR MOSFET DIMMERS.**
- **ONLY CONNECT TO FORWARD PHASE DIMMER (SCR or TRIAC) WITH ANY DIMMER BYPASS JUMPER REMOVED.**

Every item on this checklist must be checked off before connecting the MLV fixture to power. If the checklist is not followed, damage will be caused to the electrical components and warranty will be voided.

Check that the circuit has a circuit breaker or a surge protector. (No temporary power or extension cords!)

Check that the house voltage is compatible with the fixture if it is 120V or 277V.

Determine if your system is ON/OFF or dimming.

If the fixture is MLV dimming, it must have a MLV dimmer or properly installed system before power is connected.

MLV fixtures must have a dedicated grounded line. Do not share dimming with other ELV systems or fixtures.

Attention!

LED fixtures are different than incandescent lights. LED fixtures contain electronic parts that if not handled with care and installed properly, damage can be caused to the fixture and will shorten its life and void your warranty!

1. Clarté MLV fixtures are not like incandescent; they do not need “burn in” time. Connecting this fixture to power without a dimmer or properly installed MLV Dimming System will cause overheating and failure. During installation of transformer/LED module, all power/line power to housing fixture needs to be off.
2. An EMI filter is highly recommended. “Dirty Power” can cause different types of issues including flickering, flashing, and overheating; also voiding the warranty.
3. ON/OFF fixtures are rated higher and if a MLV dimming fixture is applied to an ELV ON/OFF system, the fixture will start malfunctioning immediately and eventually fail prematurely.
4. There are different types of dimming. It is important to determine if the dimming is MLV, 0-10V, or data dimming. Make sure the Clarté dimming MLV or ELV fixture matches the house dimming system.
5. Any data dimming like Lutron dimming, DMX or Dali must be installed by experts in the proper field. There are DMX experts and Dali experts. Due to addressing, only certified installers must handle this system.
6. It is highly important to follow the installations instructions carefully. Improper or negligent installation will put the fixture at risk of immediate malfunction or failure.
7. We are here to help. If your installer has any questions or concerns please call Customer Service (626)261-4242 and ask to speak with someone in engineering regarding your installation instructions.