# Command Flood™ Remote Driver Series

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## ! CAUTION

- All wiring should be done by a licensed electrician in accordance with state codes, local codes, and National Electrical Code (NEC) or International Electric Commission (IEC) standards.

- Improper installation may result in serious injury and void warranty.

- Contains parts and assemblies susceptible to damage by electrostatic discharge (ESD).

- Surge protective devices should be utilized for fixtures installed in environments subject to power surges outside the specified operating parameters.
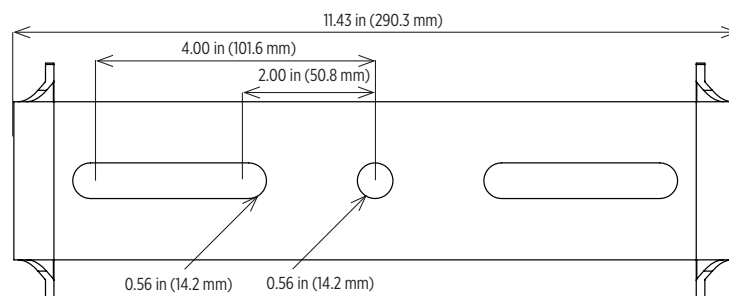
## Mounting

Fasten LED Modules with 3 x 1/2 inch (M12) bolts (not provided) through center hole and slots in harp assembly to a recommended torque of 45 lb-ft. Use mounting dimensions shown in Figure 1. Attach near corner supports or use adequate subbase for the weight of the fixture.

**Figure 1: Dimensions for Standard Mounting Brackets**
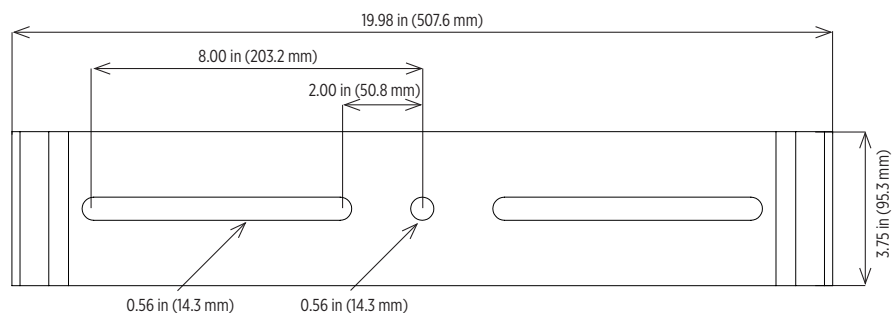
**CF-125-V2**

Module weight: 14.4 lbs (6.53 kg)

EPA (windload): 1.2 ft²



11.43 in (290.3 mm)
4.00 in (101.6 mm)
2.00 in (50.8 mm)
0.56 in (14.2 mm)   0.56 in (14.2 mm)

**CF-250**

Module weight: 26.4 lbs (11.97 kg)

EPA (windload): 2.8 ft²



19.98 in (507.6 mm)
8.00 in (203.2 mm)
2.00 in (50.8 mm)
3.75 in (95.3 mm)
0.56 in (14.3 mm)   0.56 in (14.3 mm)

**CF-375**

Module weight: 37.2 lbs (16.87 kg)

EPA (windload): 3.23 ft²



27.98 in (710.8 mm)
8.00 in (203.2 mm)
2.00 in (50.8 mm)
4.18 in (106.1 mm)
0.56 in (14.2 mm)

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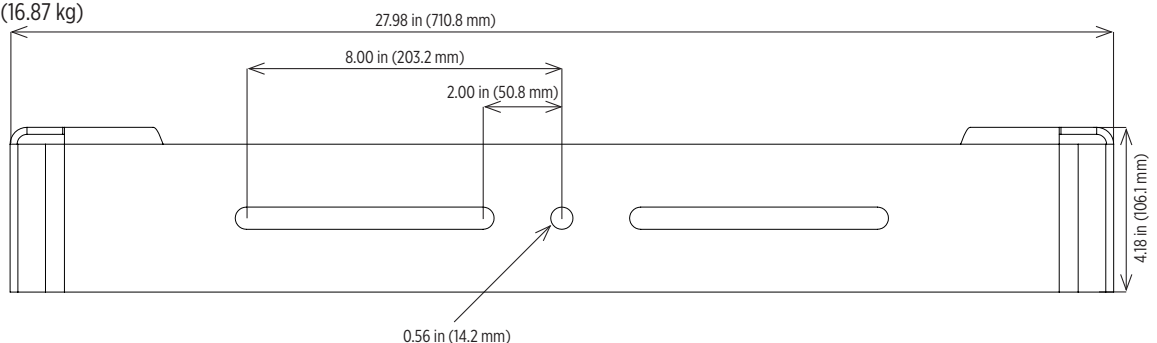
**The following table displays the maximum/minimum number of LED modules per LED Driver Kit**

| Driver Description[1] | Input Voltage | CF-125-V2 | CF-250 | CF-375 |
|---|---|---|---|---|
| KIT,CF,RDRV-600W | 200-480VAC | 5 total (5 max/3 min per channel) | 2 total (2 max/2 min per channel) | 1 total (1 max/1 min per channel) |
| KIT,CF,RDRV-1800W | 200-480VAC | 15 total (5 max/3 min per channel) | 6 total (2 max/2 min per channel) | 3 total (1 max/1 min per channel) |

**Notes**

1     KIT,CF,RDRV-1800W has three independent programmable channels. Each driver channel supports up to 600W maximum. To stay within electrical limits, Phoenix recommends using the same module type per channel.

## Wiring

### Power Supply

The power supply (remote led driver) comes in two (2) wattages (600W/1800W). All power supplies are IP66 rated with 10kV surge protection. The 1800W LED driver (standard) is divided into three (3) independent, constant-current channels (600W each channel). Supply cord should be SOOW/H07RN-F or equivalent and be 1/4 to 7/16 inch O.D.. Cord to the power supply should be connected per the diagram in (Figure 2).

**Figure 2**
**(visual of the terminal block)**
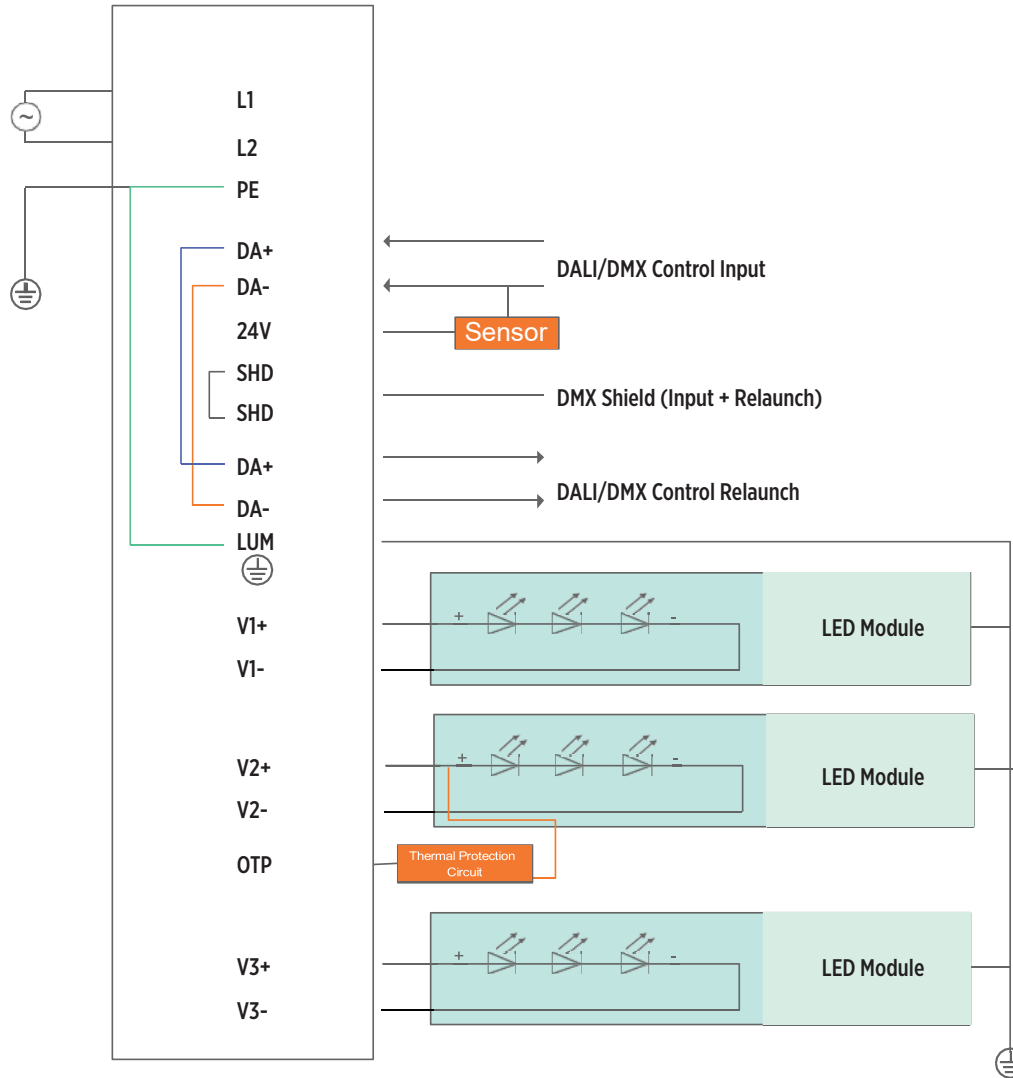


## Connections

The Command Flood remote driver lights (LED modules) are DC-powered and set up for through (continuous row) wiring. Each led module must be wired in series, with a minimum of 3 and maximum of 5 CF-125-V2 lights per channel. A combination of "T" and "Straight" connectors are provided with the lighting system. "T" connectors are to be used for all lights except for the last light in each channel. "Straight" connectors are to be used for the last light in each channel.

All modules are supplied with a 72 inch 17 AWG, 3-conductor, SOOW, 600V cable.

BROWN = LED (+)

BLUE = LED (-)

GRN/YLW = GROUND
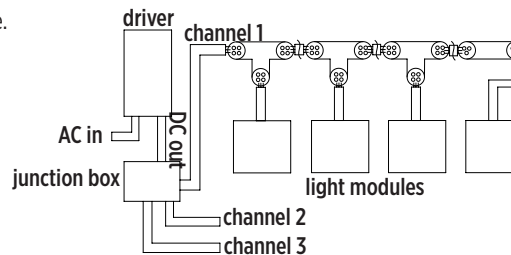


1. Connect cable (supplied by others) from power supply to first LED module in each channel using T-connector. For wiring diagram, see (Figure 3).
2. Connect additional LED modules between first and last led module using T-connector. For wiring diagram, see (Figure 4).
3. For last LED module in series, connect led module using a straight connector. For wiring diagram, see (Figure 5).

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# Command Flood™ Remote Driver Series

Installation Instructions

**Figure 3 - Wiring for First Fixture of Each Channel, T-Connector**

incoming power

outgoing power

1: DRV (+)
2: EMPTY
3: DRV (-)
GND: GROUND

1: EMPTY
2: LED (+) OUT
3: DRV (-)
GND: GROUND

1: LED (+) FIXTURE
2: LED (-) FIXTURE
3: EMPTY
GND: GROUND
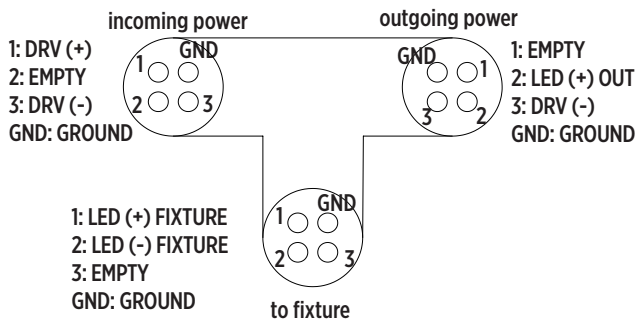
to fixture

**Figure 4 - Wiring for All Fixtures Between First and Last T-Connector**

incoming power

outgoing power

1: LED (+) IN
2: EMPTY
3: DRV (-)
GND: GROUND

1: EMPTY
2: LED (+) OUT
3: DRV (-)
GND: GROUND

(LED (+) IN IS LED (+) OUT
FROM PREVIOUS FIXTURE)

1: LED (+) FIXTURE
2: LED (-) FIXTURE
3: EMPTY
GND: GROUND
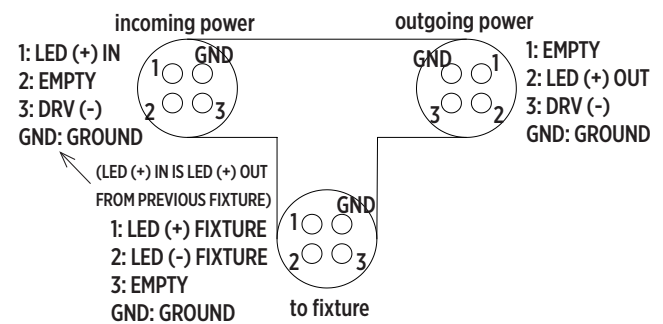
to fixture

**Figure 5 - Wiring for Last Fixture of Each Channel, Straight Connector**

incoming power

outgoing power

L: LED (+) IN
N: DRY (-)
GND: GROUND

L: LED (+) FIXTURE
N: LED (-) FIXTURE
GND: GROUND

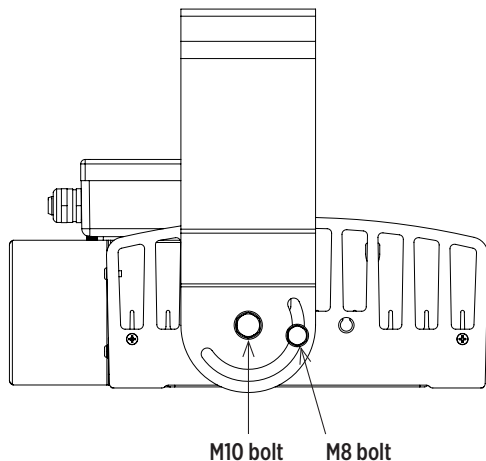(LED (+) IN IS LED (+) OUT
FROM PREVIOUS FIXTURE)
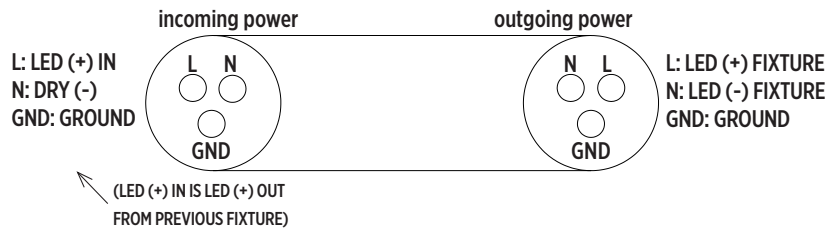
## Aiming

All Command Flood™ fixtures are equipped with aiming slots.
To aim:

1. Loosen the M10 center bolt and the M8 aiming bolt on each side of the harp.

2. Adjust fixture to the desired angle and securely re-tighten M10 bolts and M8 bolts.

**Figure 6**

M10 bolt   M8 bolt

3. Once aligned, retighten M10 bolts to 30 lb-ft (40 Nm) minimum and the M8 bolts to 18.5 lb-ft (25 Nm) minimum.

## Safety Cable Installation

*Phoenix strongly suggests using a safety cable when installing Command Flood™ fixtures.*

1. Locate a sturdy support structure for the safety cable. Please keep in mind that the safety cable is 60.00 inches (1524 mm) long and must be able to loop around a sturdy bar or bracket on the support structure.

2. Take the loop end (see Figure 7) of the cable and wrap it around the bar/bracket on the support structure.

3. Take the eyelet end (see Figure 7) and insert into the loop, pulling it until tight.

4. Place lock washer and flat washer on bolt, then insert bolt into hole of eyelet. Fasten bolt to the tapped hole provided in the housing, and torque to 70 to 80 lb-in.
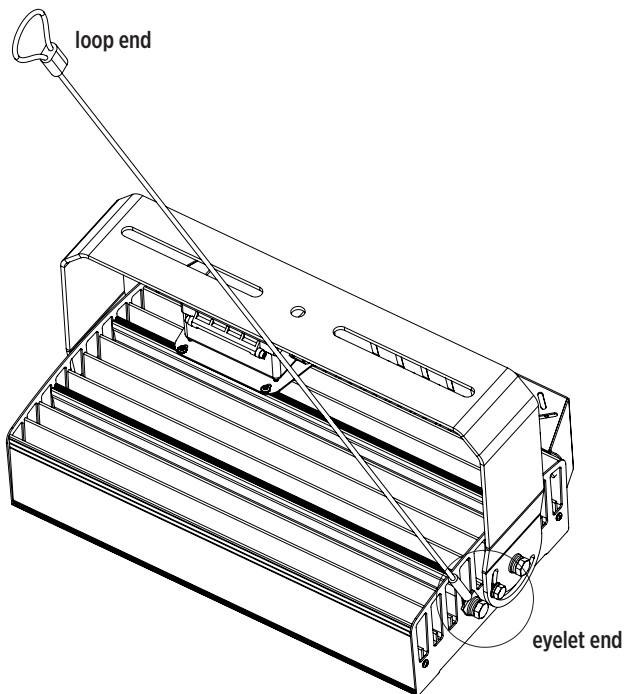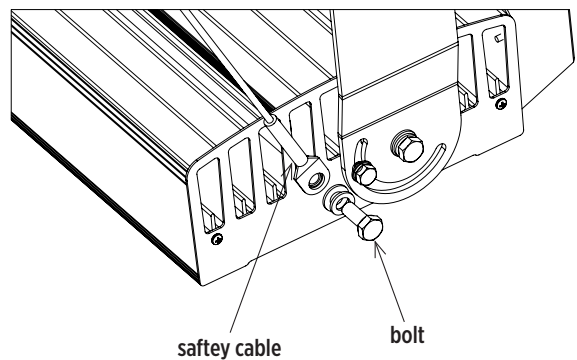
**Figure 7**

loop end

eyelet end

**Figure 8**

saftey cable

bolt

## Maintenance

Periodic maintenance and cleaning is required to keep light fixture in peak operating condition. Buildup of dirt and/or debris will diminish performance, lead to premature failure and will void the fixture's warranty.

1. Inspect fixture monthly for buildup of dirt and debris on lenses and between fins of heatsink. Wash fixture and/or components with water as needed.

2. Inspect fasteners and verify cord grips are tight. Retighten as needed.
   **Note:** Cord grips should be hand tight plus ¼ turn.

3. LED PCB light source of the luminaire is not replaceable; when the LEDs reach end of life, it must be replaced by a complete luminaire.

## Repair Parts List

| Description | Part Number |
|---|---|
| KIT,CF,RDRV-600W-200-480-DI | 010219.900 |
| KIT,CF,RDRV-1800W-200-480-DI | 010219.901 |

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