

# DIALIGHT TECH SUPPORT

## TROUBLESHOOTING GUIDE

### TESTER SETTINGS FOR PROPER MEASUREMENTS

- Measure Ohms/ Resistance **(Fig. 1a)**
- Measure Volts DC **(Fig. 1b)**
- Measure Volts AC **(Fig. 1c)**

### MEDIUM INTENSITY SYSTEM

- Beacon Cable Resistance Readings
  - White Solid (+) to White/Black (-) = Nominal value 150K $\Omega$  **(Fig. 2a)**
  - White Solid (+) to GND = OL **(Fig. 2b)**
  - White/Black (-) to GND = OL **(Fig. 2c)**
  - Red Solid (+) to Red/Black (-) = Nominal value 60K $\Omega$  **(Fig. 2d)**
  - Red Solid (+) to GND = OL **(Fig. 2e)**
  - Red/Black (-) to GND = OL **(Fig. 2f)**
- Beacon Cable Voltage Readings (DC)
  - White Solid (+) to GND = 110 – 130 Vdc (Normal operation) **(Fig. 3a)**
  - White Solid (+) to GND = 160 – 165 Vdc (Open Load Condition) **(Fig. 3b)**
  - Red Solid (+) to GND = 55 – 60 Vdc (Normal operation) **(Fig. 3c)**
  - Red Solid (+) to GND = 65 – 68 Vdc (Open Load Condition) **(Fig. 3d)**

### HI INTENSITY SYSTEM

- Communication Voltage Reading (J7 LCD Board)
  - Blue Cable to Yellow Cable = ~2.3 Vdc **(Fig. 8a)**
  - Grey Cable to Yellow Cable = ~2.7 Vdc **(Fig. 8b)**
- Verification of Terminator Jumper Fitted (Resistance Reading, J7 LCD Board)

Blue Cable to Grey Cable = Value would depend on the total amount of lights connected

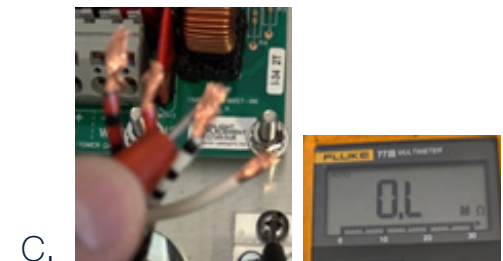
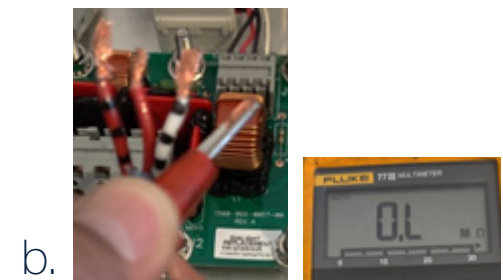
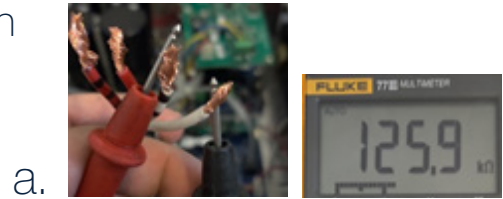
- Photocell Port Voltage Reading (DC)
  - V+ to Return (-)
    - ~11 Vdc ( No photocell connected) **(Fig. 4a)**
    - ~10 Vdc (Night mode) **(Fig. 4b)**
    - ~8 Vdc (Day mode) **(Fig. 4c)**
  - Sign\_IN (+) to Return (-)
    - >4.5 Vdc (Day Mode) **(Fig. 4d)**
    - <1.3 Vdc (Night mode) **(Fig. 4e)**
- Main Input Voltage (AC)
  - 110 – 277 VAC **(Fig. 5a)**
- Side Light Monitor R64 Reading
  - Should read ~330 $\Omega$  **(Fig. 6a)**
- Main LCD Board Voltage Readings (DC)
  - J4 = 48 Vdc **(Fig. 7a)**
  - J5 = 8.5 Vdc **(Fig. 7b)**

# FIGURE REFERENCE

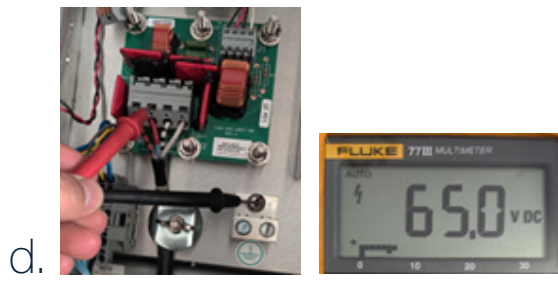
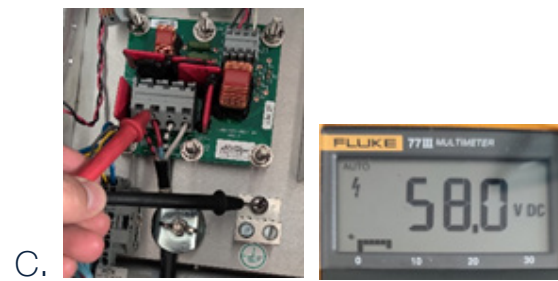
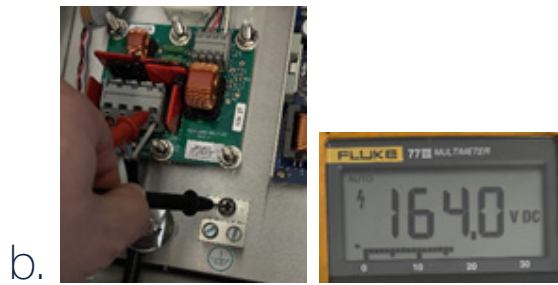
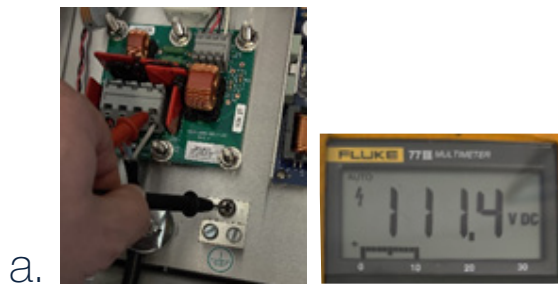
## 1. Tester Setting



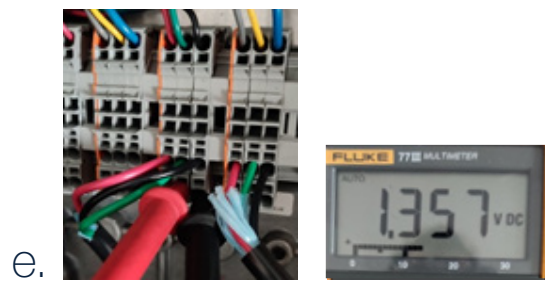
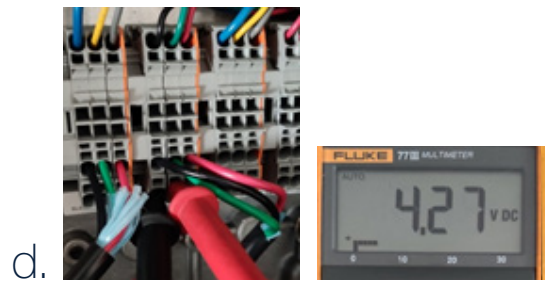
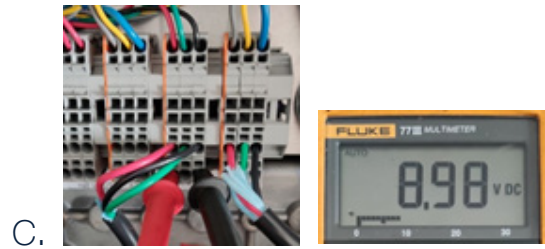
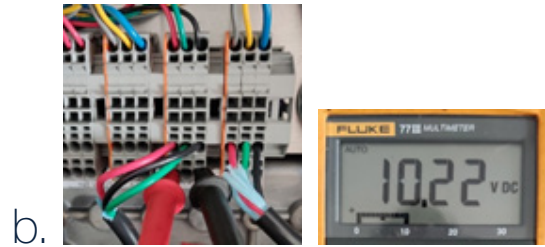
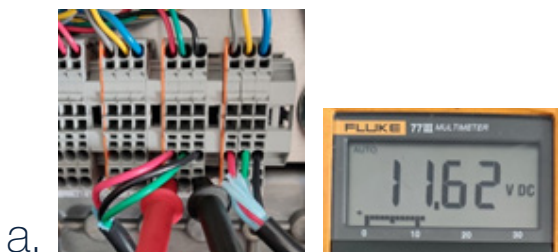
## 2. Medium Beacon Cable Resistance



### 3. Medium Beacon Cable Voltage Readings (DC)



### 4. Photocell Port Voltage Reading (DC)

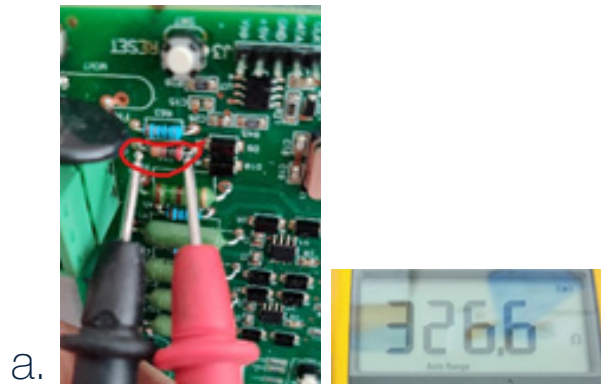


### 5. Main Input Voltage (AC)

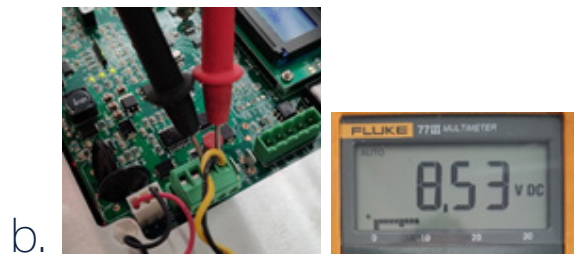
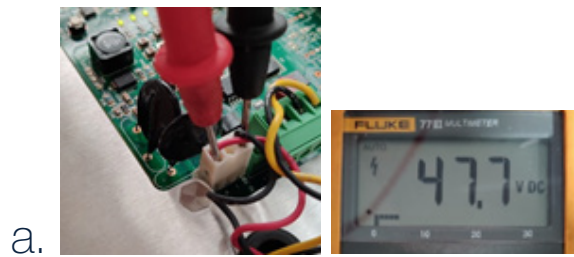




### 6. Side Light Monitor R64 Reading



### 7. Main LCD Board Voltage Readings (DC)



### 8. High Intensity LCD Board

