# QTM-eLED(E)

24V DC Power Supply - 40W-200W



- Can house up to five 40W Lutron hi-lume drivers with EcoSystem technology
- Each driver can be independently controlled or wired together
- The drivers are capable of 100% - 0.1% dimming, soft-on, soft-off, and can be fully loaded
- Lutron EcoSystem technology provides addressing of individual fixtures and status feedback from LED drivers and is compatible with QTL's strips
- The power supplies and modules are all prewired together along with terminal blocks for power and control wires
- The housing can be recessed or surface mounted

## ORDERING PROCESS

**A** Specify housing

**B** Specify power supply tray details

### A. HOUSING

| A1 PRODUCT | A2 COLOR |
|---|---|
| QTM | |

Sample Part Number: **QTM-WH**

### B. POWER SUPPLY TRAY DETAILS

| 1 PRODUCT | 2 WATTAGE | 3 PRIMARY VOLTAGE | 4 SECONDARY VOLTAGE | 5 ASSEMBLY | 6 CORRELATED HOUSING COLOR |
|---|---|---|---|---|---|
| QTM-eLED(E) | | UNV | 24VDC | | |

Sample Part Number: **QTM-eLED(E)-120W-UNV-24VDC-FA-WH**

**A1 PRODUCT**

QTM

**A2 COLOR**

**WH** White (Standard)
**BK** Black Powder Coat Finish

**B1 PRODUCT**

QTM-eLED(E)

**B2 WATTAGE**

40W
80W
120W
160W
200W

**B3 PRIMARY VOLTAGE**

**UNV** Universal

**B4 SECONDARY VOLTAGE**

24VDC

**B5 ASSEMBLY**

**FA** Factory Assembled
**NI** Not Installed

Select NI to receive the housing before the power supply tray ships.

**B6 CORRELATED HOUSING COLOR**

**WH** White (Standard)
**BK** Black Powder Coat Finish

## COMPATIBLE LEDS

**STATIC WHITE**

| | |
|---|---|
| SW24/1.5-4.0<br>SW-DR24/1.5-4.0<br>SHLD-SW24/1.5-4.0<br>SW-SCOB24/1.5-4.0 | ✓ |
| SW24/5.0, SW-HE, SW-HE+<br>SW-DR24/5.0, SW-HE-DR<br>SHLD-SW24/5.0, SHLD-SW-HE<br>SW-SCOB24/5.0 | ✓ |
| SW-SD24/1.0-4.0 | ✓ |
| SW-SD24/6.0 | ✓ |
| SW-IA | |
| SW-XT | ✓ |

**OTHER**

| | |
|---|---|
| DW-HE Tunable Applications | |
| DW-HE Warm Dim Applications | |
| WD | ✓ |
| SC | ✓ |
| RGB | |
| RGBW, RGBW-HE | |

**SHEETS**

| | |
|---|---|
| Q-SHEETS SW | ✓ |
| Q-SHEETS DW Tunable Applications | |
| Q-SHEETS DW Warm Dim Applications | |
| Q-SHEETS RGB | |
| Q-SHEETS RGBW | |

**MICRO 5**

| | |
|---|---|
| MICRO 5 SW | ✓ |
| MICRO 5 DW Tunable Applications | |
| MICRO 5 DW Warm Dim Applications | |
| MICRO 5 RGB | |

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# QTM-eLED(E)

24V DC Power Supply - 40W-200W

## PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Continuous, flicker-free dimming from 100% to 1%
- Dimmable with EcoSystem
- Fully potted driver(s) for moisture resistance
- Suitable for dry and damp locations
- Suitable for surface or recessed mounting use
- Primary voltage - universal (120-277V)
- Wide operating temperature range: 32˚F to 149˚F
- Fits up to 5 of the 40W drivers in the same housing
- 5 year warranty
- Driver has Class A sound rating
- Class 2 output
- CSA #239924
- Low Voltage Lighting Systems
  - CSA class 3425-15 and class 3425-95
  - CSA standard C22.2 No. 250.0-08 - Luminaires
  - ANSI/ UL standard 2108 - Low voltage lighting systems
  - CSA standard C22.2 No 250.13-14 - Light emitting diode (LED equipment for lighting applications
  - ANSI/ UL standard8750 - Light emitting diode (LED) equipment for use in lighting products

## VOLTAGE DROP CHART

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved

VOLTAGE DROP

| Distance from PS for 1% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 192 | 121 | 76 | 48 | 30 | 19 | 12 | 7 | 5 |
| 24 | 30 | 96 | 60 | 38 | 24 | 15 | 9 | 6 | 4 | 2 |
| 24 | 40 | 72 | 45 | 29 | 18 | 11 | 7 | 4 | 3 | 2 |

| Distance from PS for 3% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 577 | 362 | 228 | 143 | 90 | 57 | 36 | 22 | 14 |
| 24 | 30 | 288 | 181 | 114 | 72 | 45 | 28 | 18 | 11 | 7 |
| 24 | 40 | 216 | 136 | 86 | 54 | 34 | 21 | 13 | 8 | 5 |

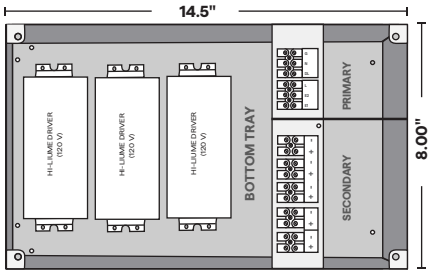
| Distance from PS for 5% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 961 | 604 | 380 | 239 | 150 | 95 | 59 | 37 | 24 |
| 24 | 30 | 480 | 302 | 190 | 120 | 75 | 47 | 30 | 19 | 12 |
| 24 | 40 | 360 | 227 | 143 | 90 | 56 | 35 | 22 | 14 | 9 |

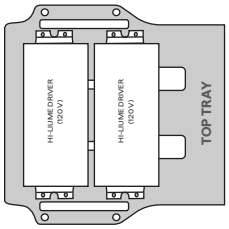
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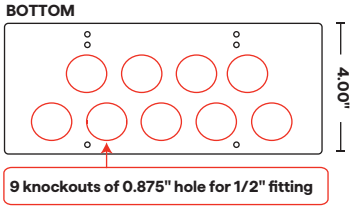
# QTM-eLED(E)

24V DC Power Supply - 40W-200W

## A1 PRODUCT - DIMENSIONS




**NOTE: 16 additional side knockouts**

## B2 TECHNICAL INFORMATION

| Wattage | Max Load (Watts) | Secondary Voltage | Max Prim Amps @ 120V |
|---|---|---|---|
| 40W | 1x40W | 24VDC | 0.9A |
| 80W | 2x40W | 24VDC | 1.4A |
| 120W | 3x40W | 24VDC | 2.0A |
| 160W | 4x40W | 24VDC | 2.6A |
| 200W | 5x40W | 24VDC | 3.0A |

## HOUSING

- 18 gauge welded steel enclosure: 14.5"W x 8.00"H x 4.00"D
- Door: 15.5"W x 9.00"H
- Knockouts: 25
- Built-in support bracket incorporated to secure housing for surface mounting

## PERFORMANCE

- Power Supply
  - Rated for surface mount or recessed use
  - Fully rated to operate low voltage load at listed wattage (No derating required)
  - Voltage regulation to 5% or less of rated output voltage
  - Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - Short circuit protection (SCP)
  - Overloadprotection (OLP)
  - Live tested by the manufacture to ensure proper operation
  - Manufacturer offers a minimum of 5 years warranty
- Terminal blocks is made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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# QTM-eLED(E)

24V DC Power Supply - 40W-200W

## SPECIFICATIONS

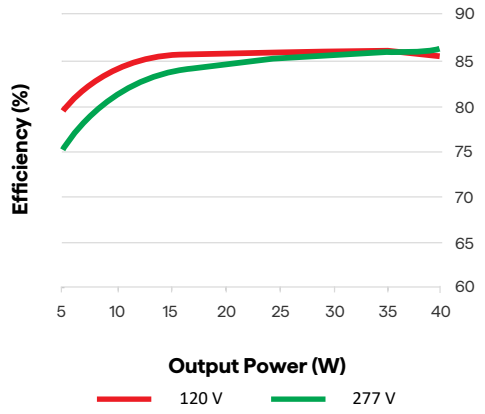
| Input | 24VDC | | |
|---|---|---|---|
| Input Voltage (Vrms) | 120 | 240 | 277 |
| Input Current, max (Arms) | 0.37 | 0.19 | 0.17 |
| Inrush Current, max* (Apk) | 2 | 2 | 2 |
| Input Frequency (Hz) | 50/60 | | |
| Input Power (W) | 44 | | |

| Output | | | |
|---|---|---|---|
| Output Voltage, nom (V) | - | 24 | - |
| Output Current (A) | - | 1.7 | - |
| Output Power (Wmax) | - | 40 | - |
| Efficiency | 86% | 87% | 88% |
| Power Dimming Frequency | - | 550Hz | - |

| Environmental | Min | Nom | Max | Min | Nom | Max |
|---|---|---|---|---|---|---|
| THD (%) | - | - | 20 | - | - | 20 |
| PF (%) | 0.90 | - | - | 0.90 | - | - |
| Case Temp (°F) | - | - | 90 | - | - | 90 |

*- 200us event **Loads >25W

## Driver Efficiency vs. Output Power at 24V




## PROTECTIONS

- Thermal Foldback
- Inrush Current limited
- Open Circuit protected
- Short Circuit Protection (SCP)
- Class 2 Output

## COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - CISPR 15
  - CISPR 22 Class A
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

## A2 COLOR

White (Standard)

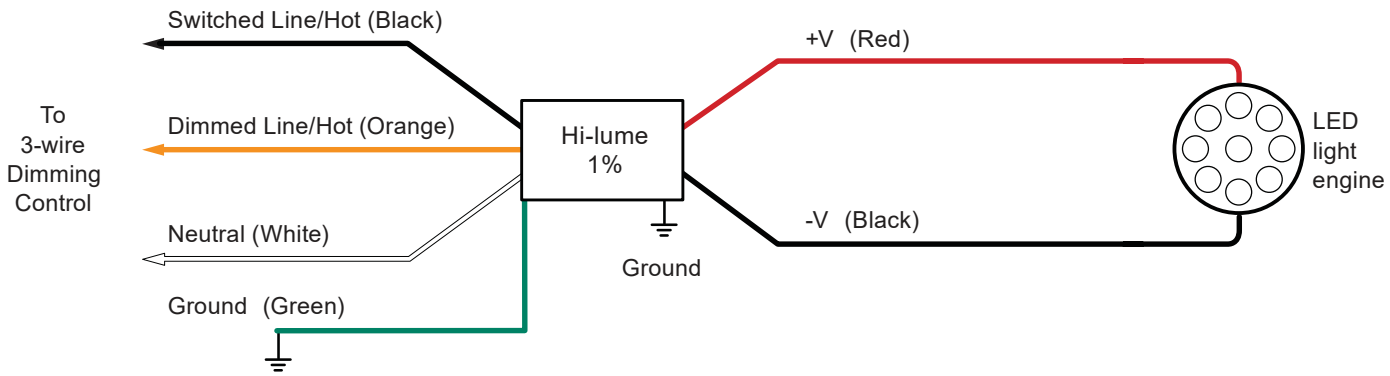
Black Powder Coat Finish

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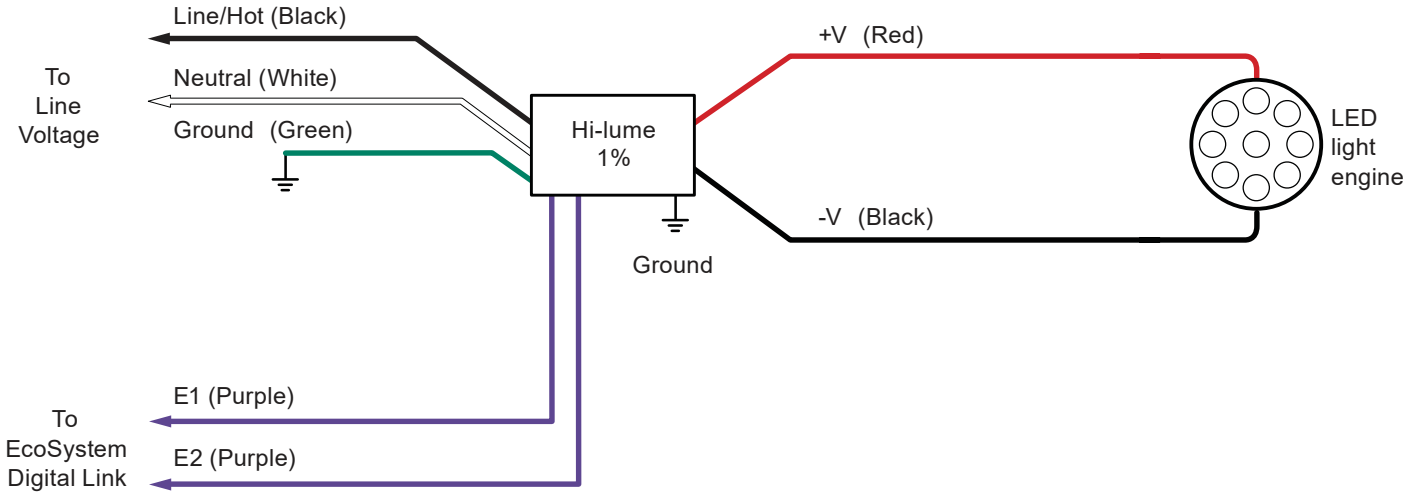
# QTM-eLED(E)

24V DC Power Supply - 40W-200W

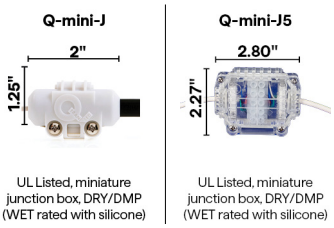
## WIRING DIAGRAM FOR 3-WIRE CONTROL




## WIRING DIAGRAM FOR ECOSYSTEM DIGITAL CONTROL




## COMPATIBLE WIRING ACCESSORIES

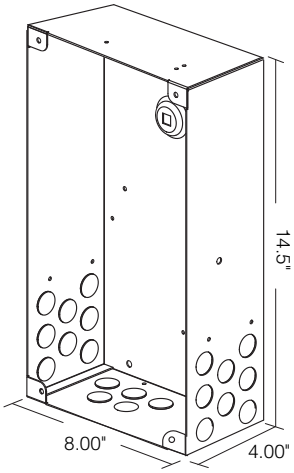



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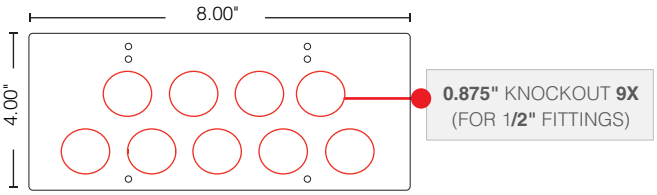
# QTM-eLED (E)

Installation Instructions

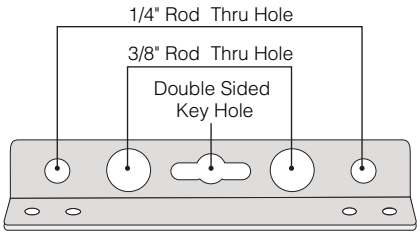
## Housing




ISOMETRIC VIEW

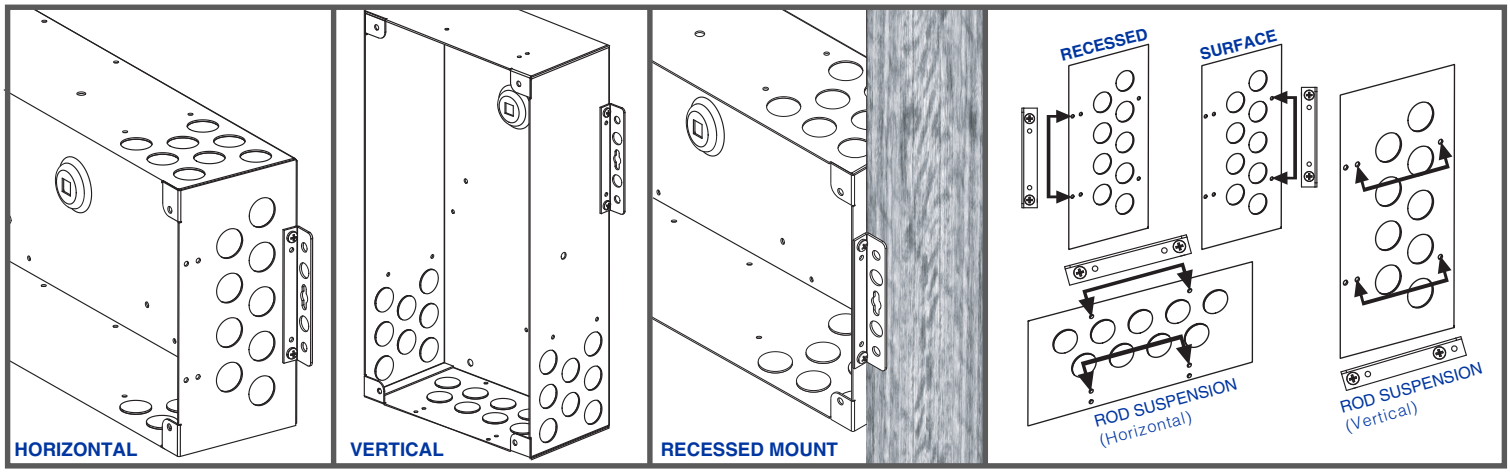


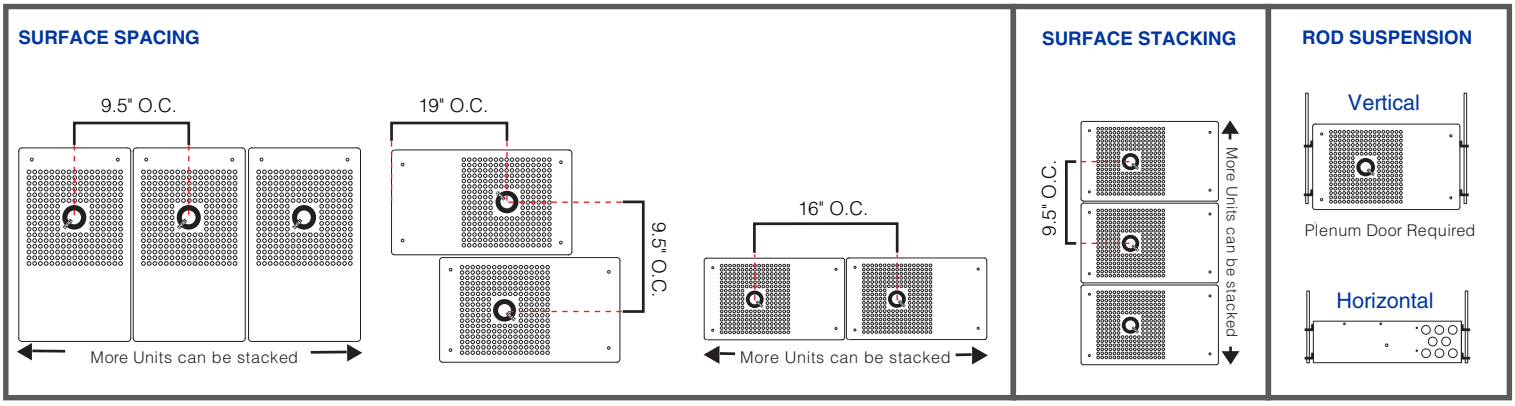

BOTTOM VIEW




NOTE: Bracket can also be mounted (Top & Bottom) for Vertical Mounts.

## Mounting Options




NOTE: Rods not included.

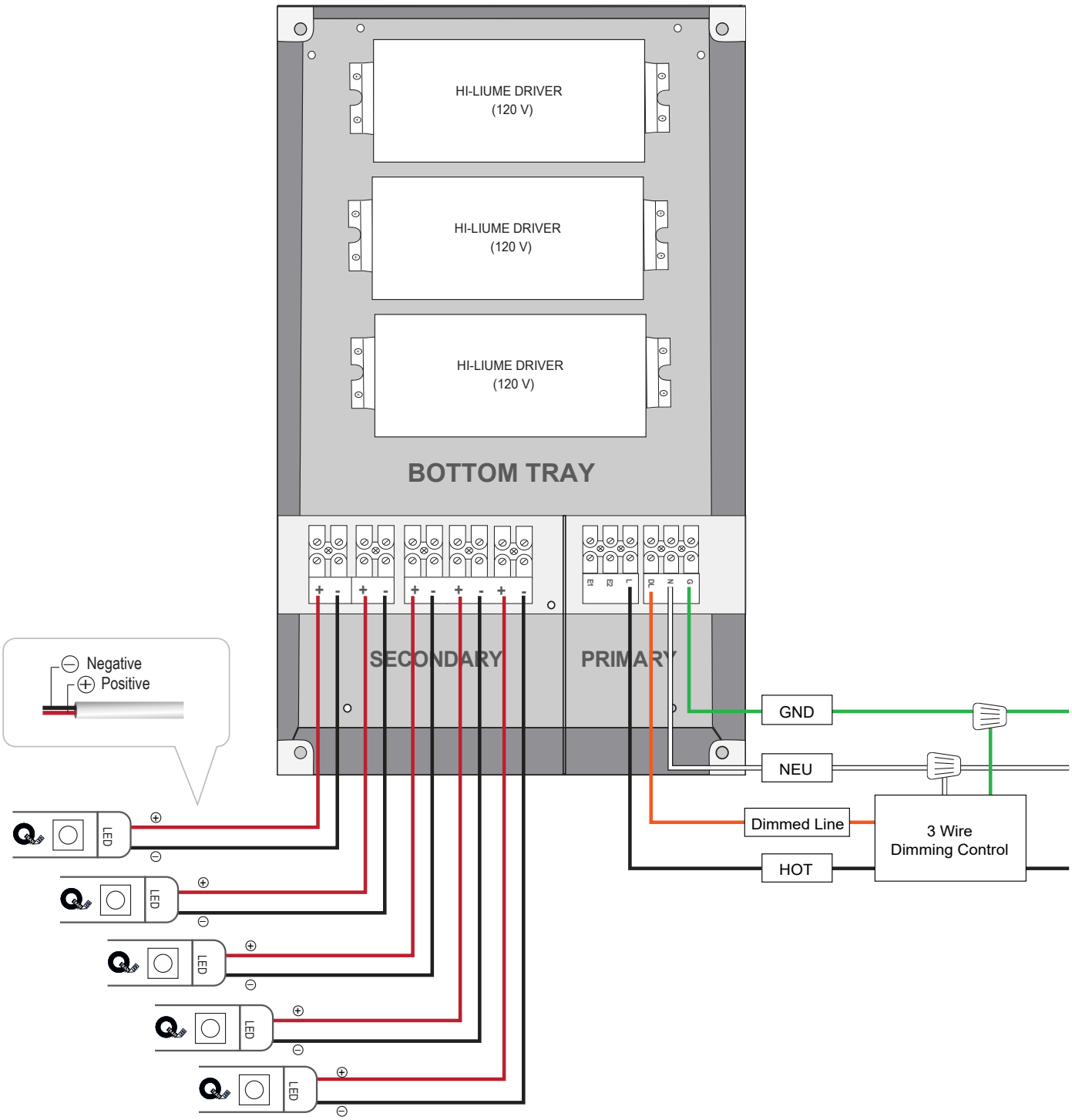
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Specification subject to change. Rev-04-01-24

# QTM-eLED (E)

Installation Instructions

## Wiring Diagram for 3-Wire Control

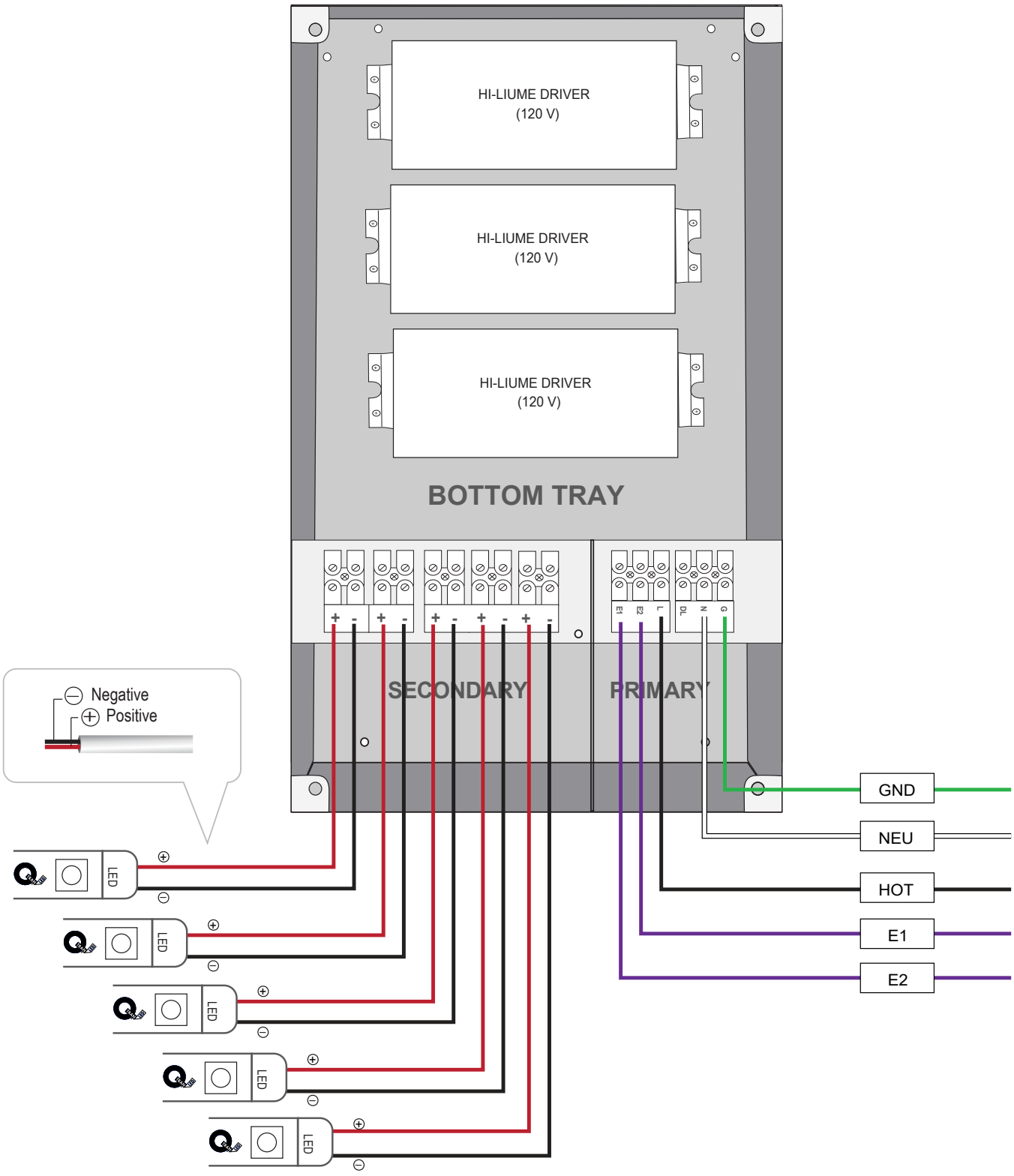



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# QTM-eLED (E)

Installation Instructions

## Wiring Diagram for EcoSystem Digital Control




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# QTM-eLED (E)

Installation Instructions

## CSA Requirements

- Suitable for indoor use
- This power supply must be installed according to the National Electric Code and local codes and ordinances and in accordance with applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply is to be installed in a location where it is not likely to be contacted by non-electricians.
- To avoid a hazard to children, account for all parts and destroy all packaging materials.

**QTM-eLED(E)**

| | | INPUT VOLTAGE | | OUTPUT VOLTAGE | | CONTROL TYPE |
|---|---|---|---|---|---|---|
| | | ○ 120V - 277V | | ○ 24V | | ○ ECO |
| | Model | Input Voltage (V) | Input Current (A) | Frequency | Nominal Output Voltage (VDC) | Nominal Output Wattage (W) |
| ○ | QTM-eLED(E)-40 | 120/277 | 0.33/0.14 | 50/60 | 24 | 40 |
| ○ | QTM-eLED(E)-80 | 120/277 | 0.67/0.29 | 50/60 | 24 | 80 |
| ○ | QTM-eLED(E)-120 | 120/277 | 1.00/0.43 | 50/60 | 24 | 120 |
| ○ | QTM-eLED(E)-160 | 120/277 | 1.33/0.58 | 50/60 | 24 | 160 |
| ○ | QTM-eLED(E)-200 | 120/277 | 1.67/0.72 | 50/60 | 24 | 200 |

- Type IC recessed, inherently protected
  TYPE IC ENCASTRE, PROTECTION INHÉRENTE
- For supply connections use wire rated for at least 60°C
  LES FILS D'ALIMENTATION 60°C MIN.
- Not for use with dimmers
  NE PAS UTILISER AVEC DES GRADATEURS
- Suitable for damp locations
  CONVIENT AUX EMPLACEMENTS HUMIDES
- Wall mount only
  MONTAGE MURAL UNIQUEMENT
- 50/60 Cycle
  CYCLE 50/60
- Class 1 or Class 2
  CLASSE 1 OU CLASSE 2

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS.

QTL
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LOW VOLTAGE
LIGHTING SYSTEM
CLASS: 3425 - 15
3425 - 95

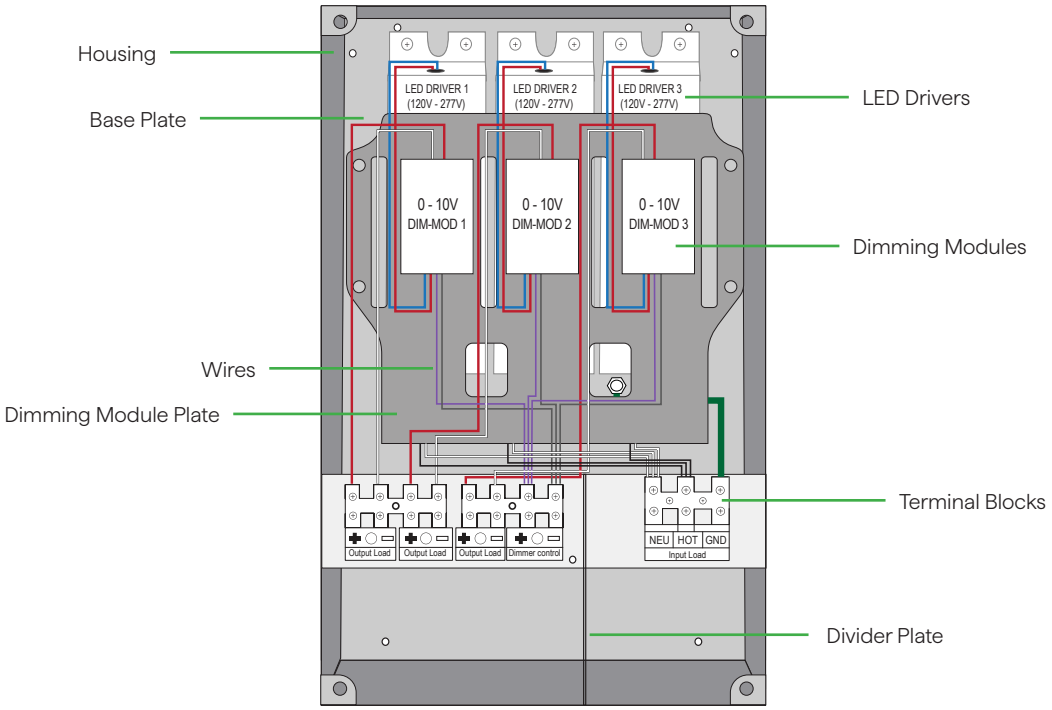
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# MATERIAL RECYCLING

QTM/QOM-eLED

You may be done with your products, but chances are they still have more to give. Follow these instructions to break down and sort recyclable components. Check with local recycling collection to ensure they accept the materials listed below.

Additionally, Q-Tran offers a Takeback Program. Contact factory for information.




QTM-eLED shown

7

Terminal Blocks

E

LED Drivers
Dimming Modules
Wires

40

Housing
Base Plate
Dimming Module Plate
Divider Plate

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