# QT-CAB-eLED+WD-AWN

24V DC Power Supply - 100W–600W



- DC power supply designed for warm dim applications
- UL listed enclosure allows for 1-6 drivers and 1-6 dimming modules
- Utilizes 100W constant voltage LED drivers and QTL's proprietary warm dim dimming module
- Control provided by one 0-10V input, simulating incandescent light sources as LEDs dim down
- Available in 100-600 watts of output
- Housing can be recessed or surface mounted
- Type IC rated
- Incorporates a factory-installed Lutron Athena Wireless Nodes, which streamlines installation time and allows for simple programming using the Athena iOS or Android app
- Using radio frequency, it connects seamlessly to Lutron wall controls, keypads, and sensors over a mesh network, providing an efficient lighting control solution
- See QT-CAB-eLED+WD for power supply without Athena Nodes

| 1 PRODUCT | 2 WATTAGE | 3 CONTROL | 4 PRIMARY VOLTAGE | 5 SECONDARY VOLTAGE | 6 COLOR |
|---|---|---|---|---|---|
| QT-CAB-eLED | | | | | |

Sample Part Number: **QT-CAB-eLED-600W-TW-AWN-2-UNV-24VDC-WH**

**1 PRODUCT**

| |
|---|
| **QT-CAB-eLED** |

**2 WATTAGE** / **3 CONTROL**

| | |
|---|---|
| **100W** 1 100W Driver | **WD-AWN-1** |
| **200W** 2 100W Drivers | **WD-AWN-1**<br>**WD-AWN-2** |
| **300W** 3 100W Drivers | **WD-AWN-1**<br>**WD-AWN-3** |
| **400W** 4 100W Drivers | **WD-AWN-1**<br>**WD-AWN-2**<br>**WD-AWN-4** |
| **500W** 5 100W Drivers | **WD-AWN-1**<br>**WD-AWN-5** |
| **600W** 6 100W Drivers | **WD-AWN-1**<br>**WD-AWN-2**<br>**WD-AWN-3**<br>**WD-AWN-6** |

**4 PRIMARY VOLTAGE**

| |
|---|
| **UNV** Universal |

**5 SECONDARY VOLTAGE**

| |
|---|
| **24VDC** |

**6 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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# QT-CAB-eLED+WD-AWN

24V DC Power Supply - 100W–600W

## PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- QTL proprietary dimming curve
- Controllable with Lutron Athena System for Warm-Dim functionality
- 0-10V dimming down to 0.1%
- Fully potted driver(s) for moisture resistance
- Suitable for dry and damp locations
- Suitable for surface or recessed mounting use
- Type IC rated
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4˚F to 104˚F
- Storage temperature range: -40˚F to 185˚F
- Installation temperature range: -4˚F to 140˚F
- Fits up to (6):100W 24VDC driver(s) and Warm Dim Module
- Up to (6) 0-10V dimming zones. Each circuit has a dedicated wireless 0-10V control.
- Up to (6) primary zones. Each output circuit has a dedicated AC input
- Driver has Class A sound rating 5-year warranty
- 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 standard 8750 - 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 | 45 | 64 | 40 | 25 | 16 | 10 | 6 | 4 | 2 | 2 |
| 24 | 60 | 48 | 30 | 19 | 12 | 8 | 5 | 3 | 2 | 1 |
| 24 | 80 | 36 | 23 | 14 | 9 | 6 | 4 | 2 | 1 | 1 |
| 24 | 96 | 30 | 19 | 12 | 7 | 5 | 3 | 2 | 1 | 1 |

| 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 | 45 | 192 | 121 | 76 | 48 | 30 | 19 | 12 | 7 | 5 |
| 24 | 60 | 144 | 91 | 57 | 36 | 23 | 14 | 9 | 6 | 4 |
| 24 | 80 | 108 | 68 | 43 | 27 | 17 | 11 | 7 | 4 | 3 |
| 24 | 96 | 90 | 57 | 36 | 22 | 14 | 9 | 6 | 4 | 2 |

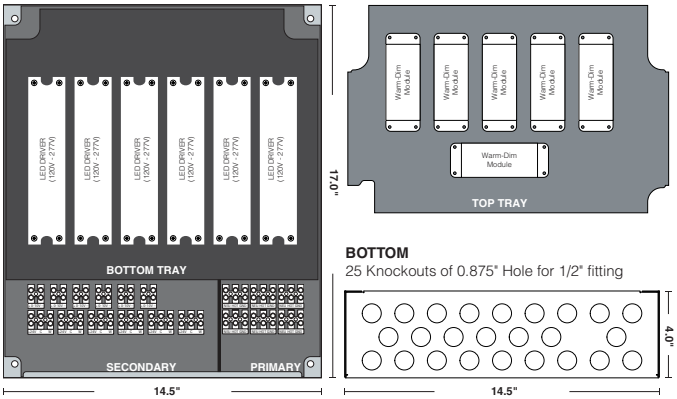
| Distance from PS for 5% Voltage Drop | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VDC | Load (W) | 10 AWG | 12 AWG | 14 AWG | 16 AWG | 18 AWG | 20 AWG | 22 AWG | 24 AWG | 26 AWG |
| 24 | 15 | 961 | 604 | 380 | 239 | 150 | 95 | 59 | 37 | 24 |
| 24 | 30 | 480 | 302 | 190 | 120 | 75 | 47 | 30 | 19 | 12 |
| 24 | 45 | 320 | 201 | 127 | 80 | 50 | 32 | 20 | 12 | 8 |
| 24 | 60 | 240 | 151 | 95 | 60 | 38 | 24 | 15 | 9 | 6 |
| 24 | 80 | 180 | 113 | 71 | 45 | 28 | 18 | 11 | 7 | 4 |
| 24 | 96 | 150 | 94 | 59 | 37 | 23 | 15 | 9 | 6 | 4 |

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# QT-CAB-eLED+WD-AWN

24V DC Power Supply - 100W–600W

## 1 PRODUCT - DIMENSIONS




## 2 TECHNICAL INFORMATION

| Wattage | Max Load (Watts) | Secondary Voltage | Max Prim Amps @ 120V | Max Prim Amps @ 277V |
|---|---|---|---|---|
| 30W | 1×30W | 24VDC | 0.29A | 0.12A |
| 60W | 1×60W | 24VDC | 0.57A | 0.24A |
| 100W | 1×100W | 24VDC | 0.95A | 0.40A |
| 200W | 2×100W | 24VDC | 1.90A | 0.80A |
| 300W | 3×100W | 24VDC | 2.85A | 1.20A |
| 400W | 4×100W | 24VDC | 3.80A | 1.60A |
| 500W | 5×100W | 24VDC | 4.75A | 2.00A |
| 600W | 6×100W | 24VDC | 5.70A | 2.40A |

## 3 CONTROL

- WD-AWN-1: 1 Lutron Athena Node. 1 zone of control for 100-600W. The entire output is controlled as a single zone.
- WD-AWN-2: 2 Lutron Athena Nodes. 2 zones of control for 200W, 400W, 600W. Each of the two outputs are controlled as independent zones.
- WD-AWN-3: 3 Lutron Athena Nodes. 3 zones of control for 300W, 600W. Each of the three outputs are controlled as independent zones.
- WD-AWN-4: 4 Lutron Athena Nodes. 4 zones of control for 400W. Each of the four outputs are controlled as independent zones.
- WD-AWN-5: 5 Lutron Athena Nodes. 5 zones of control for 500W. Each of the five outputs are controlled as independent zones.
- WD-AWN-6: 6 Lutron Athena Nodes. 6 zones of control for 600W. Each of the six outputs are controlled as independent zones.

| Total Wattage | WD-AWN-1 | WD-AWN-2 | | WD-AWN-3 | | | WD-AWN-4 | | | | WD-AWN-5 | | | | | WD-AWN-6 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Node 1 | Node 1 | Node 2 | Node 1 | Node 2 | Node 3 | Node 1 | Node 2 | Node 3 | Node 4 | Node 1 | Node 2 | Node 3 | Node 4 | Node 5 | Node 1 | Node 2 | Node 3 | Node 4 | Node 5 | Node 6 |
| 100W | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200W | 200 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300W | 300 | - | - | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400W | 400 | 200 | 200 | - | - | - | 100 | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - |
| 500W | 500 | - | - | - | - | - | - | - | - | - | 100 | 100 | 100 | 100 | 100 | - | - | - | - | - | - |
| 600W | 600 | 300 | 300 | 200 | 200 | 200 | - | - | - | - | - | - | - | - | - | 100 | 100 | 100 | 100 | 100 | 100 |

## HOUSING

- 18 gauge welded steel enclosure: 14.5"W x 17.0"H x 4.0"D
- Door: 18.0"W x 15.5"H
- Knockouts: 25
- Bracket kit included for recessed or surface mounting.

## LUTRON ATHENA NODE

- Compatibility with Lutron Athena System
- Enables wireless 0-10V dimming for warm dim applications
- Each node controlled as a single zone, use multiple nodes to create multiple zones
- Each Athena wireless node must be installed within 25' of two or more Athena wireless nodes for robust Athena control system connection
- Must be used as part of a Lutron Athena control system
- Athena Wireless Node system commissioing, troubleshooting, and maintenance performed by others

## PERFORMANCE

- Rated for surface mount or recessed use
- Type IC rated
- Fully rated to operate low voltage load at listed wattage (No derating required)
- Voltage regulation to 2% or less of rated output voltage
- The ability to be dimmed using DALI-2 DT-6 dimming
- Universal input range of 120-277 Vrms
- Low Voltage Lighting Systems
  - CSA Class 3425-15 and Class 3425-95
  - Short circuit protection (SCP)
  - Over voltage protection (OVP)
  - Over current protection (OCP)
  - Live tested by the manufacturer to ensure proper operation
- Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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Specification subject to change. **Rev-08-24-26**

# QT-CAB-eLED+WD-AWN

24V DC Power Supply - 100W–600W

## SPECIFICATIONS

| Input | 24VDC | | |
|---|---|---|---|
| Input Voltage (Vrms) | 120 | 230 | 277 |
| Input Current, max (Arms) | 0.98 | 0.51 | 0.43 |
| Inrush Current, max* (Apk) | - | 20 | - |
| Input Frequency (Hz) | 50/60 | | |
| Input Power (Wmax) | 117 | | |

| Output | 3000K | 2000K |
|---|---|---|
| Output Voltage, nom (V) | 24 | 24 |
| Output Current (A) | 2.0 | 1.5 |
| Output Power (Wmax) | 100 | 100 |
| Dimming 0-10V, max | 2mA | |

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

## PROTECTIONS

- Short Circuit Protection (SCP)
- Over Voltage Protection (OVP)
- Over Current Protection (OCP)
- Class 2 Output

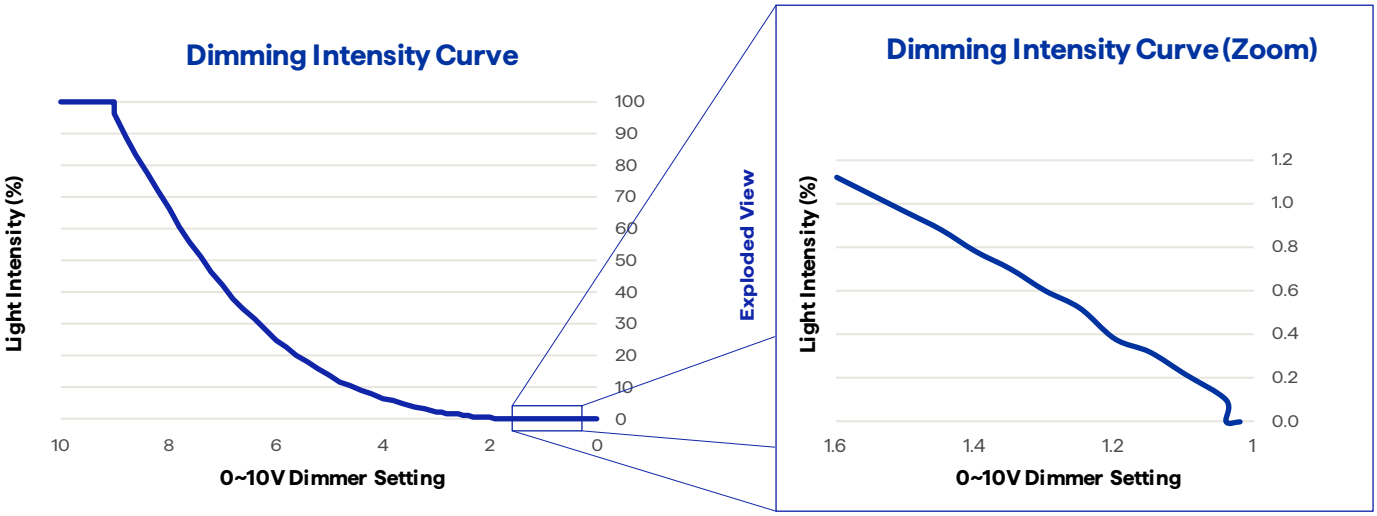
## 6 COLOR

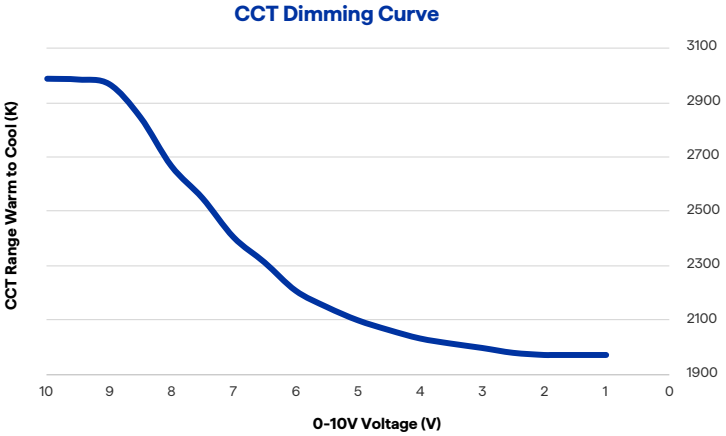
White (Standard)

Black Powder Coat Finish

## COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14



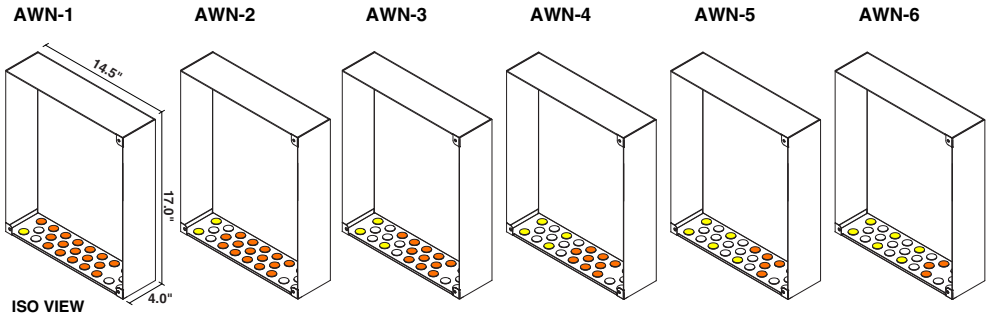

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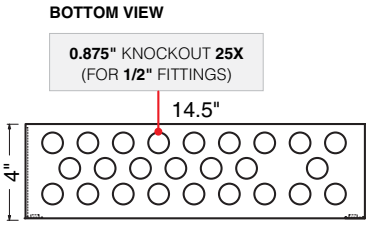
Specification subject to change. Rev-08-24-26

# QT-CAB-eLED+WD-AWN

24V DC Power Supply - 100W–600W

## NODE AND CONDUIT ENTRY LOCATIONS




**Conduit Entry Locations**
Athena nodes must be installed on the secondary side of power supply center and require 1.0” of clearance in order to optimally function. Metal conduit must be 1.0” away from any node. Refer to the diagram above for recommendations for conduit entry into secondary compartment.

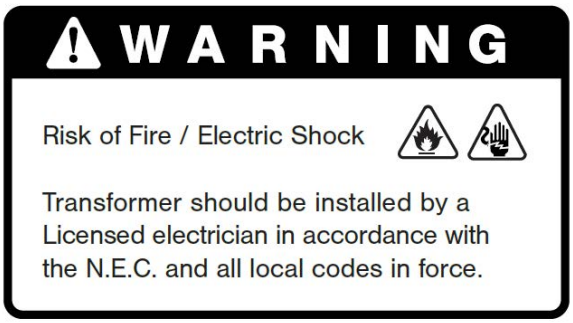
**Lutron Athena Node**
Mounted in the secondary wiring compartment only

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# QT-CAB-eLED+WD-AWN

LED Power Supply Installation Instructions

- **Must be installed by licensed electrician.**




RoHS COMPLIANT

C SA US

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

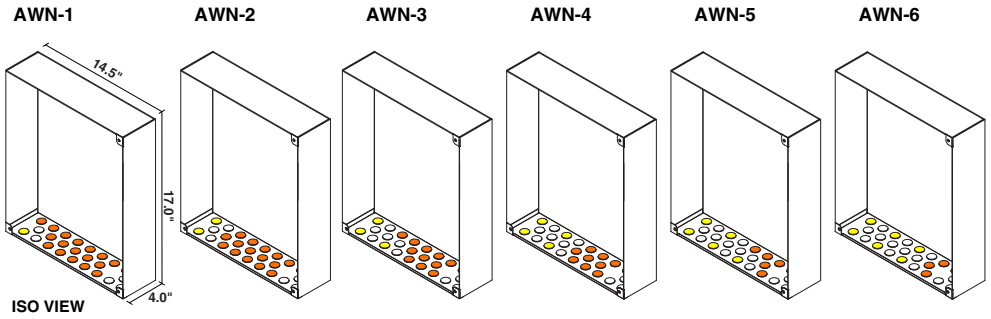
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed so that it is not likely to be contacted by people.
- To avoid a hazard to children, account for all parts and destroy all packaging materials.
- Do not install in wet locations.

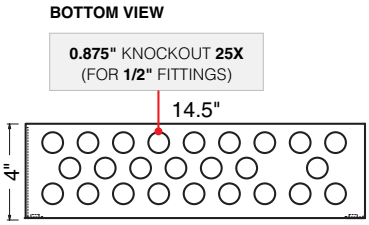
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# QT-CAB-eLED+WD-AWN

LED Power Supply Installation Instructions

## NODE AND CONDUIT ENTRY LOCATIONS

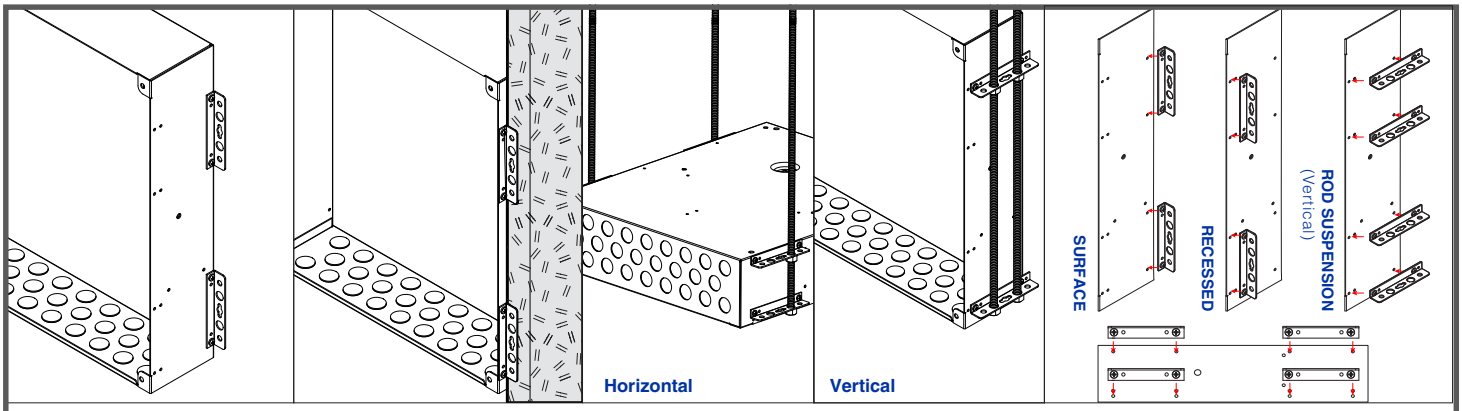



**Conduit Entry Locations**
Athena nodes must be installed on the secondary side of power supply center and require 1.0" of clearance in order to optimally function. Metal conduit must be 1.0" away from any node. Refer to the diagram above for recommendations for conduit entry into secondary compartment.

**Lutron Athena Node**
Mounted in the secondary wiring compartment only

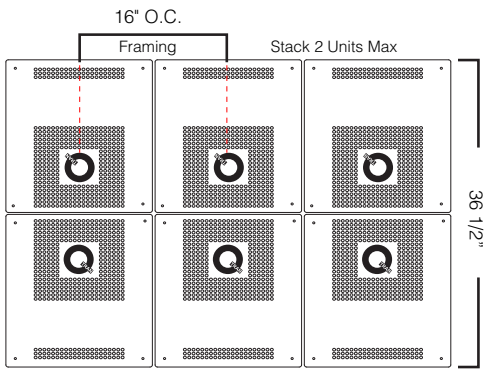
## MOUNTING OPTIONS

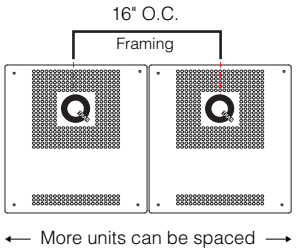



**SURFACE MOUNT** | **RECESSED MOUNT** | **ROD SUSPENSION MOUNT** (Comes with 4 brackets standard) | **ROD SUSPENSION** (Horizontal)

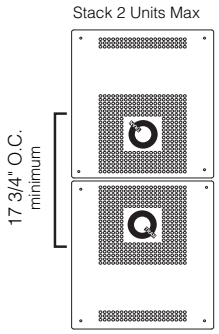
If the housing is installed prior to final construction, install included disposable cover to protect the housing from large debris, damage, and paint overspray. Remove disposable cover and clean out housing before installing electronics.

### SURFACE SPACING

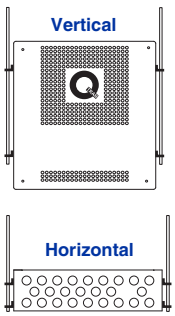



### SURFACE STACKING




### ROD SUSPENSION




Plenum Door Required

NOTE: Rods not included.

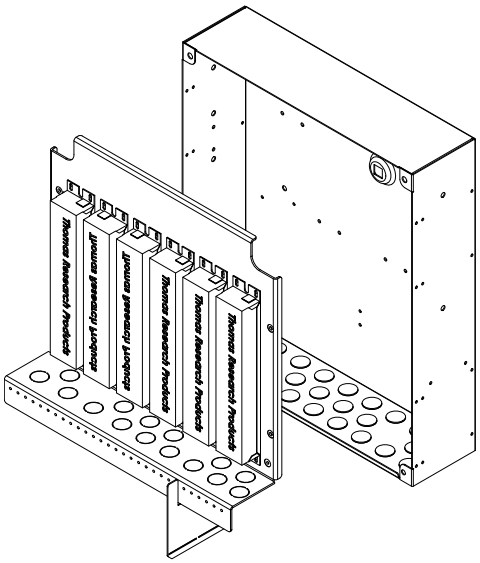
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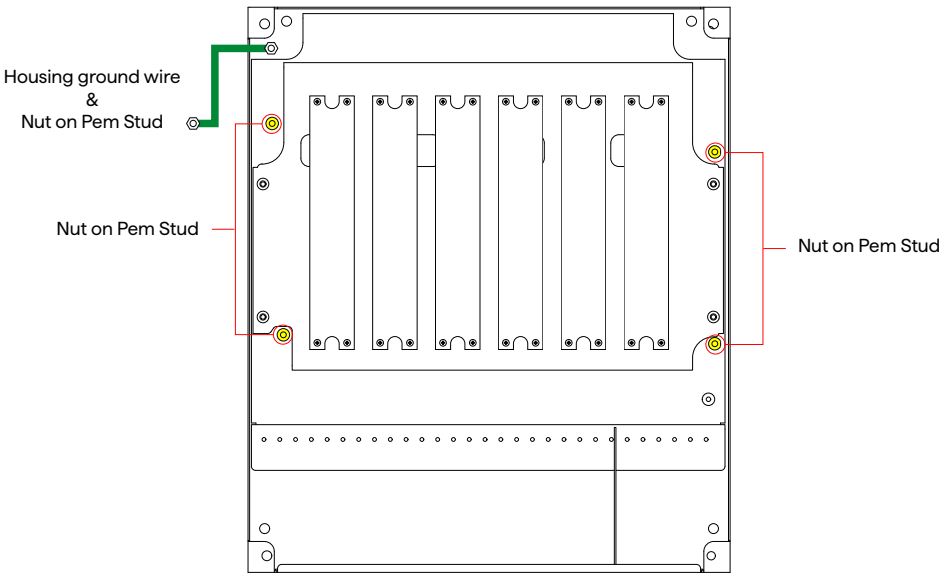
Specification subject to change. Rev-02-29-24

# QT-CAB-eLED+WD-AWN

LED Power Supply Installation Instructions

## POWER TRAY INSTALL






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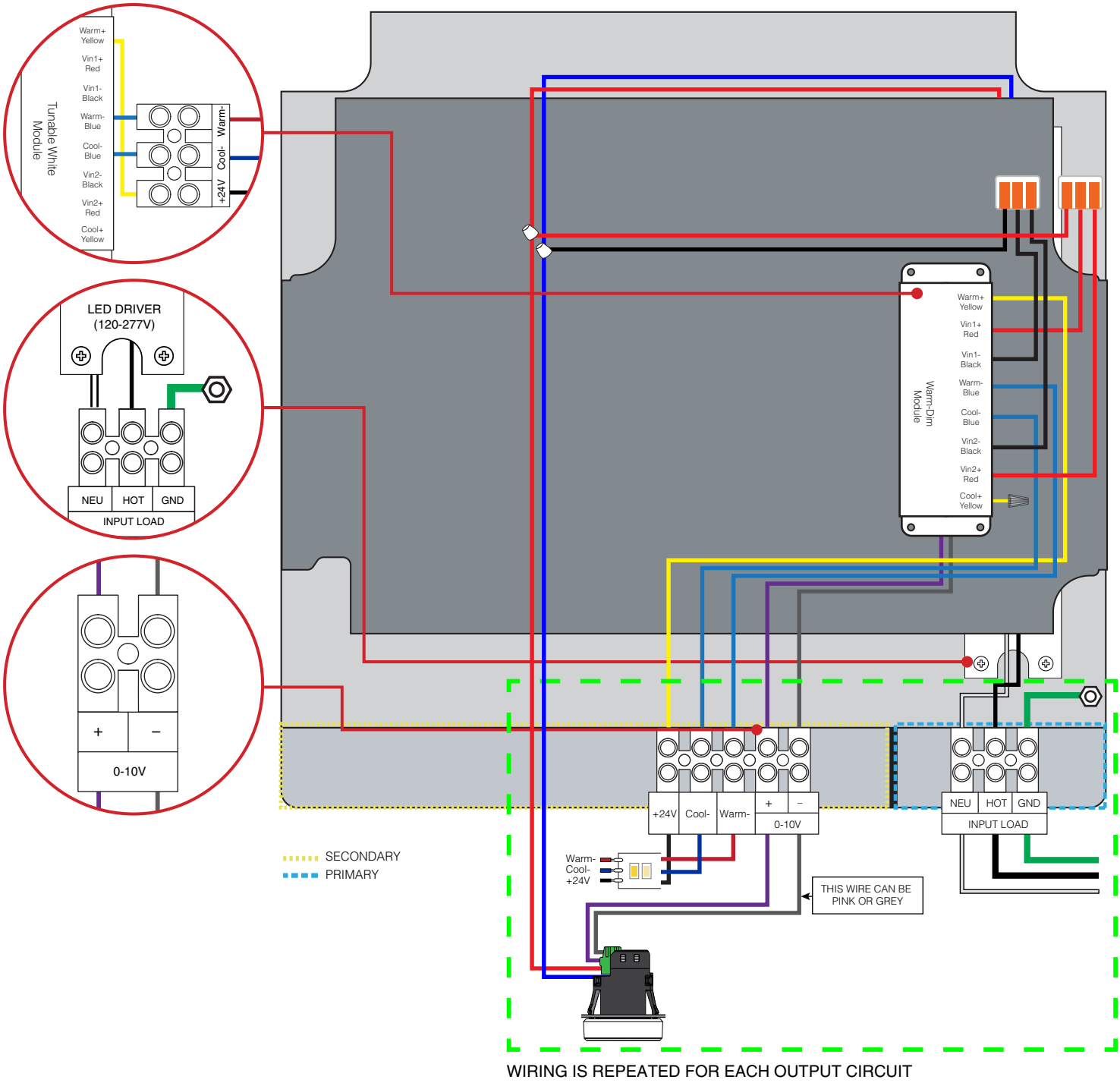
# QT-CAB-eLED+WD-AWN

LED Power Supply Installation Instructions

## WIRING DIAGRAM

### QT-CAB-eLED+WD-AWN-1

### 100W



# QT-CAB-eLED+WD-AWN

LED Power Supply 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.
- Do not connect two or more power supplies in parallel.
- Do not install output conductors longer than 273m.

**QT-CAB-eLED**

INPUT VOLTAGE: ○ 120V - 277V

OUTPUT VOLTAGE: ○ 12V ○ 24V

CONTROL TYPE: ○ 0-10V-AWN ○ WD-AWN ○ TW-AWN ○ DALI-DT6-AWN ○ DALI-DT8-AWN

| | Model | Input Voltage (V) | Input Current (A) | Frequency | Nominal Output Voltage (VDC) | Nominal Output Wattage (W) |
|---|---|---|---|---|---|---|
| ○ | QT-CAB-eLED-60 | 120/277 | 0.60/0.29 | 50/60 | 12 | 60 |
| ○ | QT-CAB-eLED-120 | 120/277 | 1.20/0.58 | 50/60 | 12 | 120 |
| ○ | QT-CAB-eLED-180 | 120/277 | 1.80/0.87 | 50/60 | 12 | 180 |
| ○ | QT-CAB-eLED-240 | 120/277 | 2.40/1.16 | 50/60 | 12 | 240 |
| ○ | QT-CAB-eLED-300 | 120/277 | 3.00/1.45 | 50/60 | 12 | 300 |
| ○ | QT-CAB-eLED-360 | 120/277 | 3.60/1.74 | 50/60 | 12 | 360 |
| ○ | QT-CAB-eLED-100 | 120/277 | 0.95/0.40 | 50/60 | 24 | 100 |
| ○ | QT-CAB-eLED-200 | 120/277 | 1.90/0.80 | 50/60 | 24 | 200 |
| ○ | QT-CAB-eLED-300 | 120/277 | 2.85/1.20 | 50/60 | 24 | 300 |
| ○ | QT-CAB-eLED-400 | 120/277 | 3.80/1.60 | 50/60 | 24 | 400 |
| ○ | QT-CAB-eLED-500 | 120/277 | 4.75/2.00 | 50/60 | 24 | 500 |
| ○ | QT-CAB-eLED-600 | 120/277 | 5.70/2.40 | 50/60 | 24 | 600 |

- 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.
- Dimmer, if used, must be electronic low-voltage dimmer
  LE GRADATEUR, LE CAS ÉCHÉANT, DOIT ÊTRE UN GRADATEUR ÉLECTRONIQUE BASSE TENSION
- Suitable for damp locations
  CONVIENT AUX EMPLACEMENTS HUMIDES
- Class 2
  CLASSE 2
- Wall mount only
  MONTAGE MURAL UNIQUEMENT

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.

**CAUTION:**

FOR 12VDC OUTPUT VOLTAGE, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 60 W MAXIMUM EACH TO ANY ONE OUTPUT. FOR 24VDC OUTPUT VOLTAGE, DO NOT CONNECT MORE THAN ONE LUMINAIRE HEAD ASSEMBLIES OF 100 W MAXIMUM EACH TO ANY ONE OUTPUT.

POUR UNE TENSION DE SORTIE DE 12 V CC, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 60 W MAXIMUM CHACUN À UNE SORTIE. POUR UNE TENSION DE SORTIE DE 24 V CC, NE CONNECTEZ PAS PLUS D'UN ENSEMBLE DE TÊTES DE LUMINAIRE DE 100 W MAXIMUM CHACUN À UNE SORTIE.

QTL
MILFORD, CT U.S.A.
(203) 367-8777
www.QTLlighting
LOW VOLTAGE LIGHTING SYSTEM
CLASS: 3425 - 15
3425 - 95

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