QOM-eLED+DALI-DT8

24V DC Power Supply - 100W-400W



- Surface mount, exterior rated LED power supply center.
- Utilizes UL Class 2 LED drivers with a 100W constant voltage.
- LED power supply for DALI 2 applications.
- Includes DALI-2 certified QTL DALI-2 DT8 control gear.
- Available in 100-400 watt capacity.
- The power supplies and decoders are all prewired together along with terminal blocks for power and control wires.
- Suitable for both indoor and outdoor use, making it versatile for various lighting applications.

1 PRODUCT	2 WATTAGE	3 OUTPUT WIRING 1	4 OUTPUT WIRING 2	5 OUTPUT WIRING 3	6 OUTPUT WIRING 4	7 PRIMARY VOLTAGE	8 SECONDARY VOLTAGE	9 CONTROL	10 COLOR
QOM-eLED						UNV	24VDC	DALI-DT8	

Sample Part Number: **QOM-eLED-300W-3-3-3-N/A-UNV-24VDC-DALI-DT8-BK**

1 PRODUCT

QOM-eLED

For customization or pre-programming contact a local sales rep.
DALI commissioning to be performed by a third party at time of installation.

2 WATTAGE

100W

200W

300W

400W

3 OUTPUT WIRING 1

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

3-Wire Light Engines: DW, DW-HE
4-Wire Light Engines: RGB
5-Wire Light Engines: RGBW, RGBW-HE

4 OUTPUT WIRING 2

N/A

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

3-Wire Light Engines: DW, DW-HE
4-Wire Light Engines: RGB
5-Wire Light Engines: RGBW, RGBW-HE

5 OUTPUT WIRING 3

N/A

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

3-Wire Light Engines: DW, DW-HE
4-Wire Light Engines: RGB
5-Wire Light Engines: RGBW, RGBW-HE

6 OUTPUT WIRING 4

N/A

N/A

N/A

3 3-Wire Light Engines
4 4-Wire Light Engines
5 5-Wire Light Engines

3-Wire Light Engines: DW, DW-HE
4-Wire Light Engines: RGB
5-Wire Light Engines: RGBW, RGBW-HE

7 PRIMARY VOLTAGE

UNV

8 SECONDARY VOLTAGE

24VDC

9 CONTROL

DALI-DT8

10 COLOR

BK Black Powder Coat Finish (Standard)
SS 316 Marine Grade Stainless Steel

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QOM-eLED+DALI-DT8

24V DC Power Supply - 100W-400W

COMPATIBLE LEDS

STATIC WHITE

SW24/1.5-4.0 SW-DR24/1.5-4.0 SHLD-SW24/1.5-4.0 SW-SCOB24/1.5-4.0	
SW24/5.0, SW-HE, SW-HE+ SW-DR24/5.0, SW-HE-DR SHLD-SW24/5.0, SHLD-SW-HE 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	✓

If using a DW LED, wattage must be doubled

SHEETS

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

If using a DW LED, wattage must be doubled

MICRO 5

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

If using a DW LED, wattage must be doubled

PRODUCT INFORMATION

- Limited output voltage and current, plus isolation for safe operation
- Controllable by DALI 2 protocol
- DALI dimming down to 0.1%
- Fully potted driver(s) for moisture resistance
- Suitable for dry, damp, and wet locations
- Suitable for use with submersible luminaire
- Surface mount only
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4˚F to 122˚F
- Fits up to (4): 100W 24 VDC driver(s) and DALI decoder module(s)
- Driver has Class A sound rating
- 5 years 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 System
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No. 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications
- Landscape Lighting Systems
  - CSA Class 3402-15 and Class 3402-95
  - CSA Standard C22.2 No. 250.7-07 - Extra-Low-Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 1838 - Low Voltage Landscape Lighting Systems
  - ANSI/ UL Standard 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products
  - CSA Std C22.2 No. 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications

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

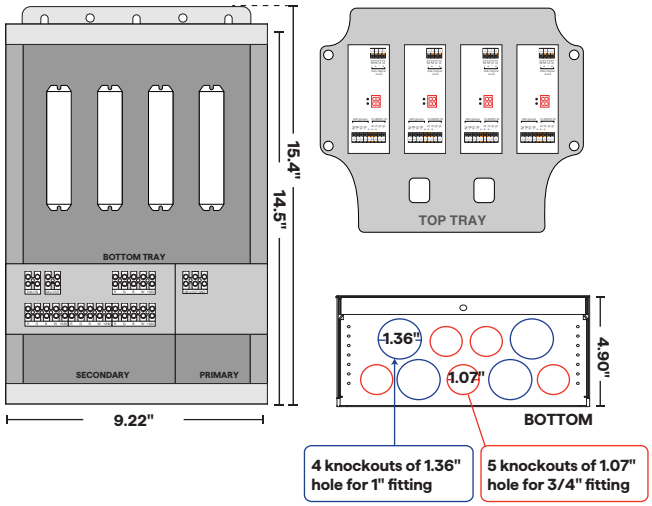
Distance from PS for 5% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	961	604	380	239	150	95	59	37	24
24	30	480	302	190	120	75	47	30	19	12
24	45	320	201	127	80	50	32	20	12	8
24	60	240	151	95	60	38	24	15	9	6
24	80	180	113	71	45	28	18	11	7	4
24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

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QOM-eLED+DALI-DT8

24V DC Power Supply - 100W-400W

1 PRODUCT - DIMENSIONS



2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
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

HOUSING

- 18 gauge welded steel enclosure: 15.4"L x 9.22"W x 4.90"D
- Door: 14.5"L x 9.27"W
- Knockouts: 9
- Built-in support bracket incorporated to secure housing for surface mounting

PERFORMANCE

- Power Supply
  - Rated for surface mount or outdoor use
  - 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
- LED Landscape Lighting System Components
  - CSA Class 3402-15 and Class 3402-95
  - Short circuit protection (SCP)
  - Over voltage protection (OVP)
  - Over current protection (OCP)
  - Live tested by the manufacturer to ensure proper operation
  - Manufacturer offers a minimum of 5 years warranty
- Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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QOM-eLED+DALI-DT8

24V DC Power Supply - 100W-400W

SPECIFICATIONS PER 100W CIRCUIT

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 (W)	117		

Output	TW	RGB	RGBW
Output Voltage, nom (V)	24	24	24
Output Current (A) per channel	2	1.33	1
Output Power (Wmax) per decoder	100	100	100

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

*-200us event

PROTECTIONS

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

COMPLIANCE

- EMI Spec
  - FCC 47 Part 15
  - EN61000-3-2
- CSA Certified
  - UL-2108
  - UL-1838
  - UL-8750
  - CSA C22.2 No 250.7-07
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

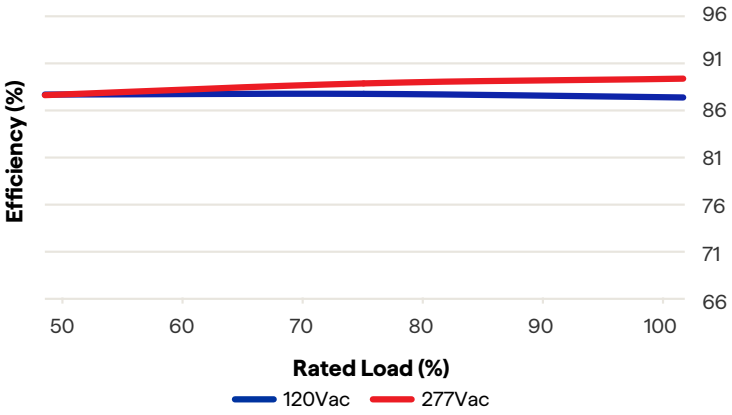
10 COLOR



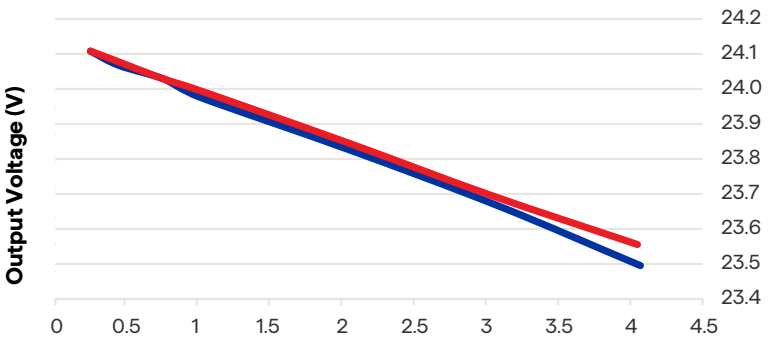
Black Powder Coat Finish (Standard)

316 Marine Grade Stainless Steel

Efficiency / Load



Vout vs. Iout, 24VDC



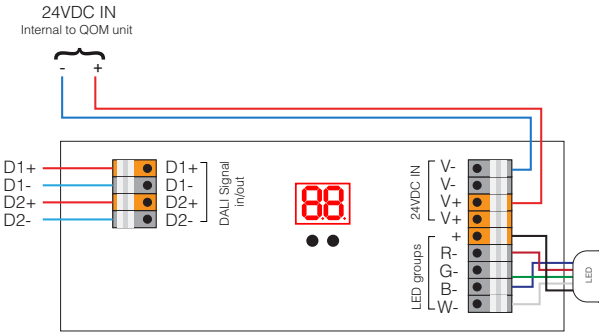
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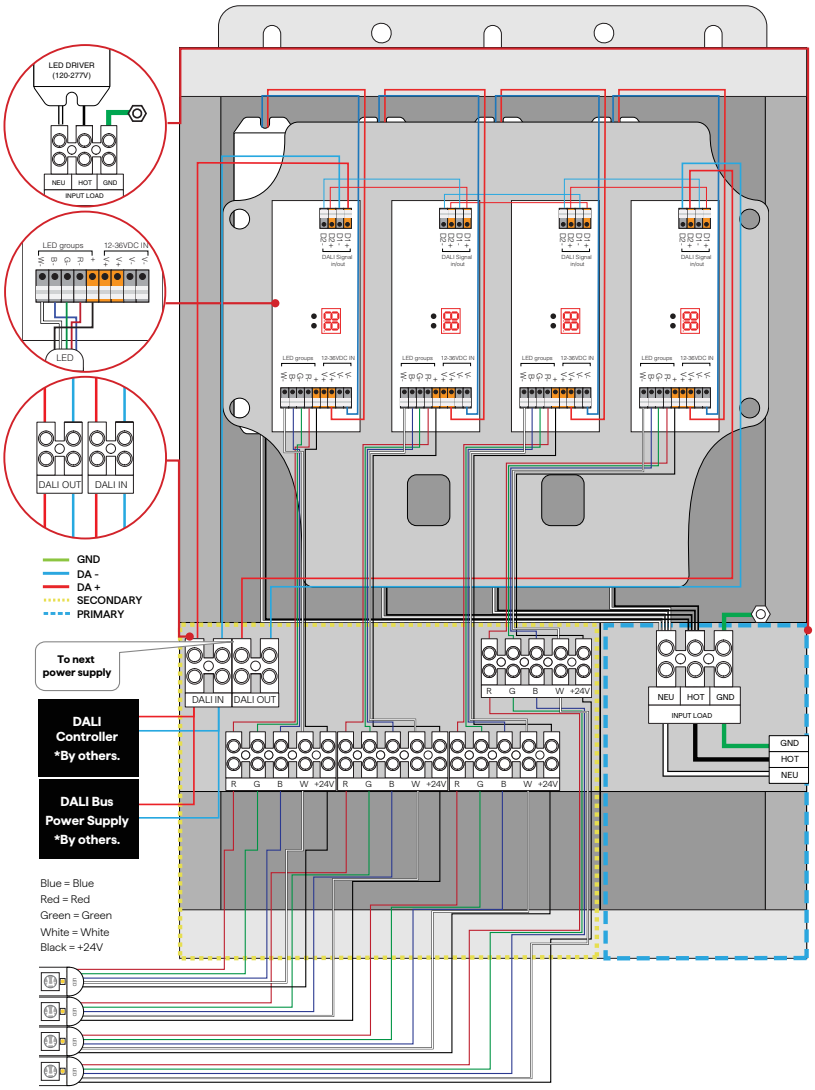
Specification subject to change. Rev-08-24-26

QOM-eLED+DALI-DT8

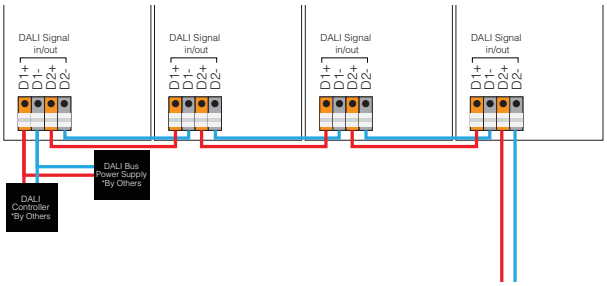
24V DC Power Supply - 100W-400W

WIRING DIAGRAM





To DALI Controller



DALI SIGNAL IN/OUT

- Use these connectors when the driver is used in a DALI network. For DALI in, connect the network cable's DALI+, to the D1+, and D1- connectors respectively. For DALI out, connect the network cable's DALI - to the D2+, and D2- connectors respectively.
- Separate DALI Bus power supply required. By others.
- Separate DALI Controller required. By others.

LED GROUPS

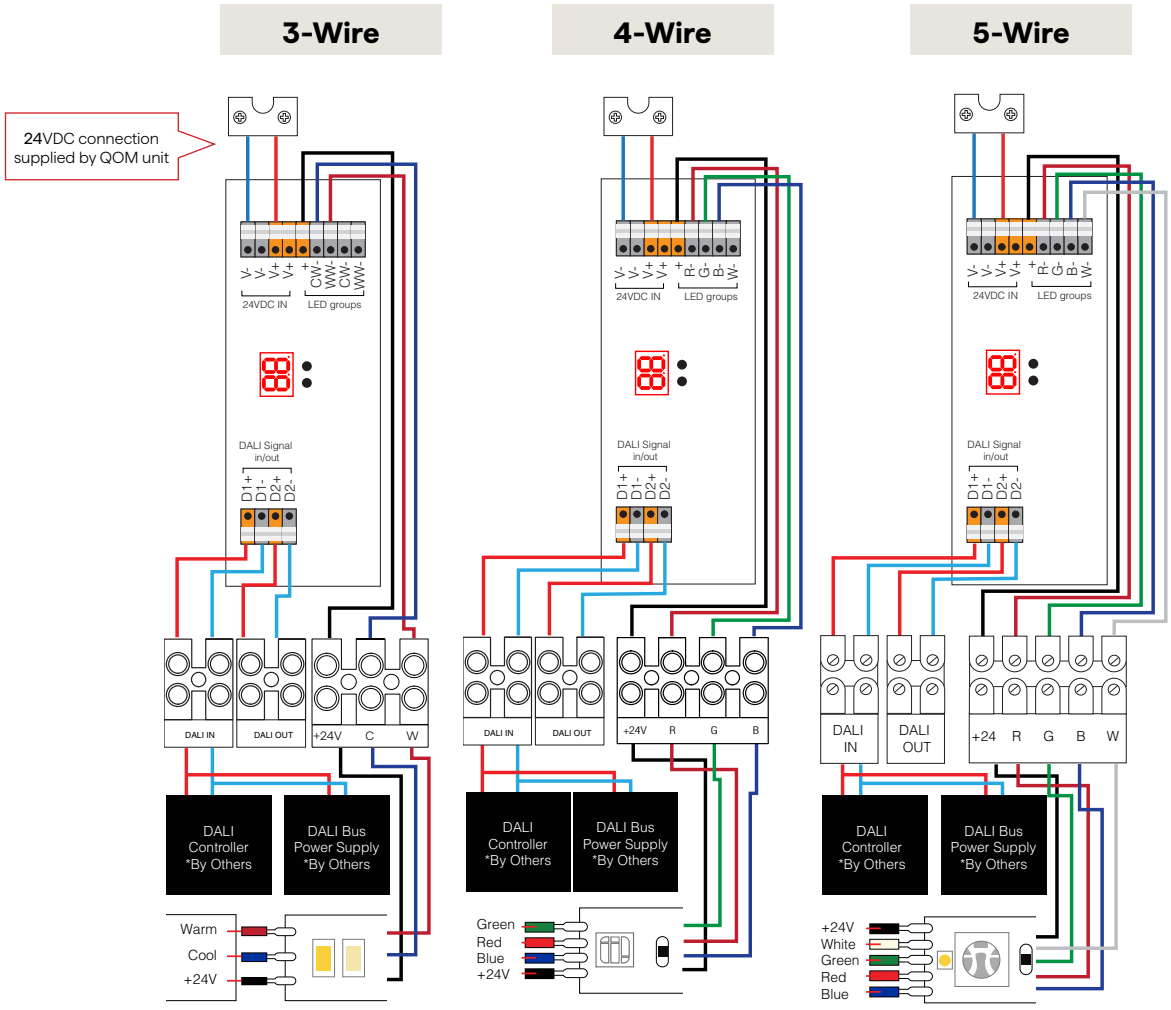
- Indicates the location of the connectors for your LED groups. The default group color allocation can be changed over the 2-button user interface. Make wire connections from the power supply to the terminal blocks, R- is wired to the R input on the terminal block, G- is wired to the G input on the terminal block, B- is wired to the B input on the terminal block, W- is wired to the W input on the terminal block.

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QOM-eLED+DALI-DT8

24V DC Power Supply - 100W-400W

OUTPUT WIRING CONFIGURATIONS



NOTE:

For customization or pre-programming contact a local sales rep.
DALI commissioning to be performed by a third party at time of installation.

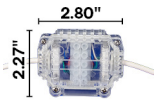
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QOM-eLED+DALI-DT8

24V DC Power Supply - 100W-400W

COMPATIBLE WIRING ACCESSORIES

Q-mini-J5



UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)

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QUICK START GUIDE

CONFIGURATION INSTRUCTION - DALI-2-DT8-TW

These are general guidelines for configuring QTL DALI-2 DT8 TW drivers for the required CCT range. Consult your DALI programmer/commissioning device manufacturer's guide for the specific steps.

1. When connecting the DA+/DA from your device to the QTL drivers, ensure that no other controllers are connected to the DA+ and DA- lines at the same time. See the next page for the wiring diagram.

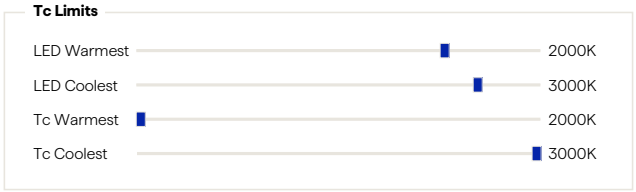
2. QTL DALI-2 drivers do not have integrated bus power supply. Therefore, DALI bus power must be provided by the programming device.

3. When addressing for custom CCT range configuration, multiple drivers may be connected simultaneously to a single controller/programming device.

4. The CCT range can be set in the "Tc Limits" section of the software interface accompanying the DALI-2 application controller.

5. In the "Tc Limits" section, LED Warmest and Tc Warmest should be set to the lowest CCT of the LED strip. LED Coolest and Tc Coolest should be set to the highest CCT of the LED CCT range.

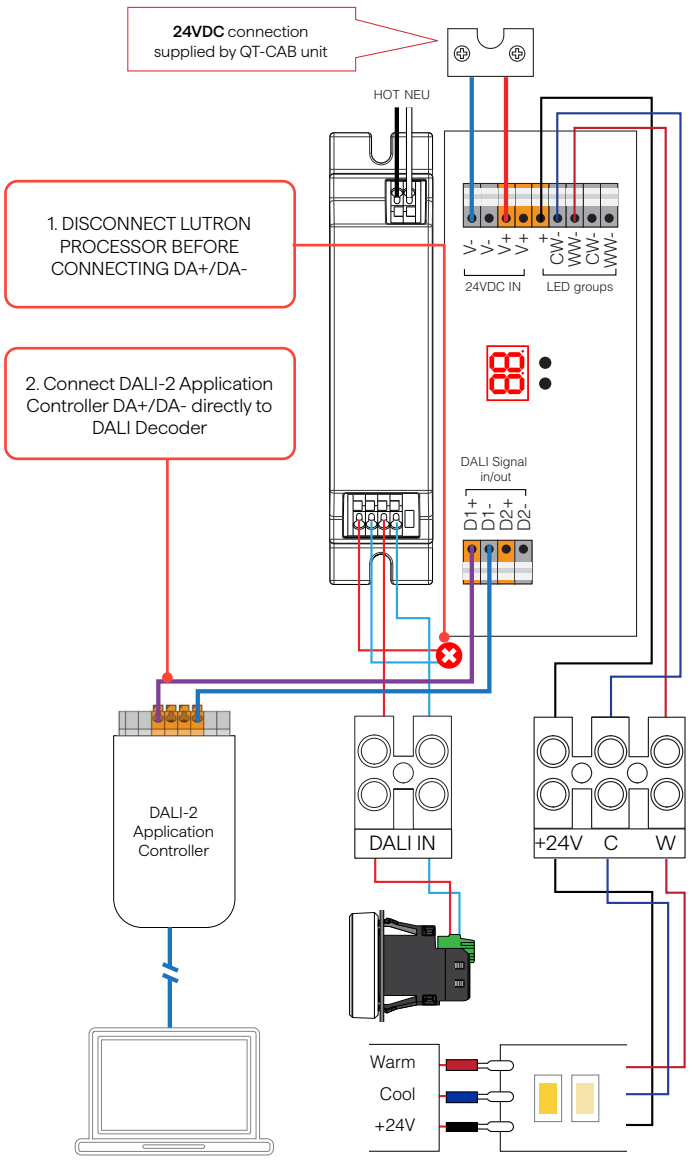
6. For example, if the LED CCT range is 2000K to 3000K (20/30), the LED Warmest and Tc Warmest should be set to 2000K. LED Coolest and Tc Coolest should be set to 3000K.



7. If the exact value cannot be selected, select the next value closest to the required limits. For warm, select the next lower value. For cool, select the next higher value.

8. Save the configured values to the driver by clicking on "write"/"save" or equivalent option in your software interface.

WIRING DIAGRAM



For use with QTL DALI-2 LED drivers only

FOR POWER SUPPLIES WITH LUTRON ATHENA NODES, DISCONNECT LUTRON DC-OEM-DBI FROM THE DALI LINE BEFORE CONNECTING THE DALI-2 PROGRAMMER. RECONNECT AFTER ALL DEVICES ARE CONFIGURED.

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QOM-eLED+DALI-DT8

Installation Instructions

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

WARNING

Risk of Fire / Electric Shock



Transformer should be installed by a Licensed electrician in accordance with the N.E.C. and all local codes in force.

RoHS COMPLIANT

C SP US

LOW VOLTAGE LIGHTING SYSTEM & LANDSCAPE LIGHTING SYSTEMS

CLASS: **3425-15** **3402-15** **3425-95** **3402-95**

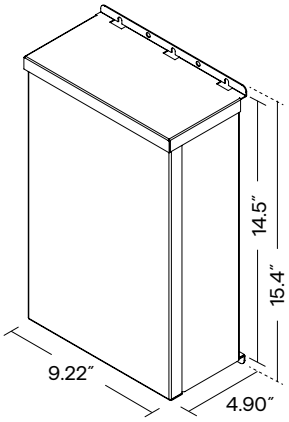
- Wear rubber shoes and work on a sturdy wooden or fiberglass ladder.
- This power supply must be installed according to the National Electric Code and local codes and ordinances.
- This power supply is to be installed and serviced only by an licensed electricians.
- This power supply is to be installed 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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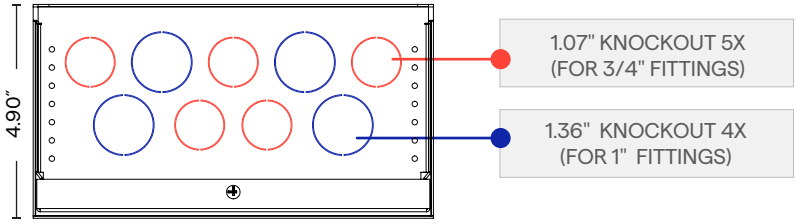
QOM-eLED+DALI-DT8

Installation Instructions

Housing

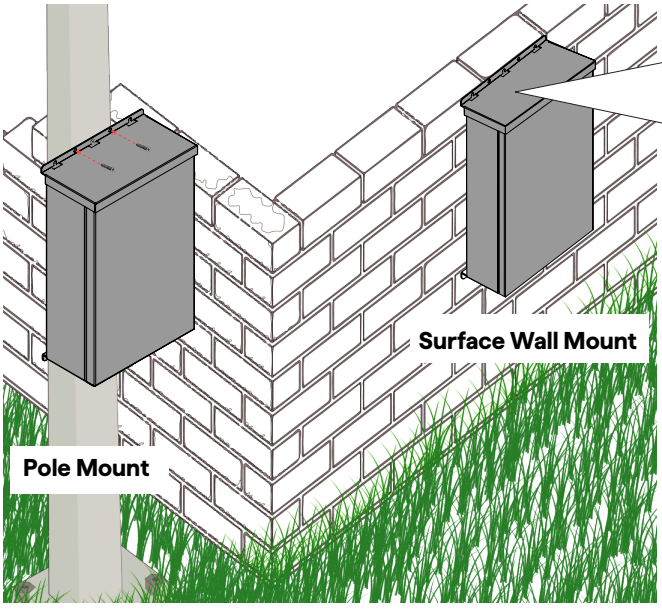


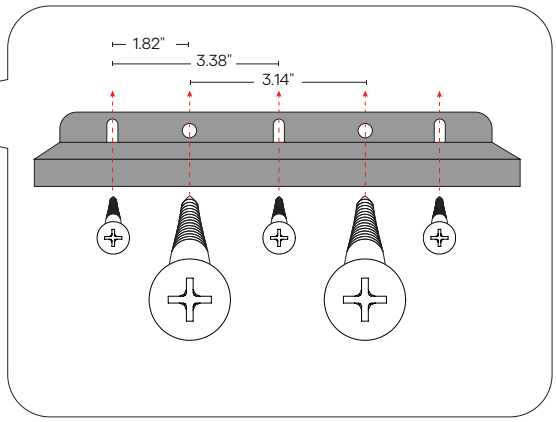
ISOMETRIC VIEW

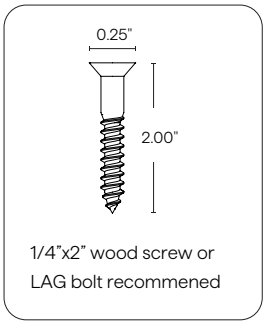


BOTTOM VIEW

Mounting Options







NOTE:

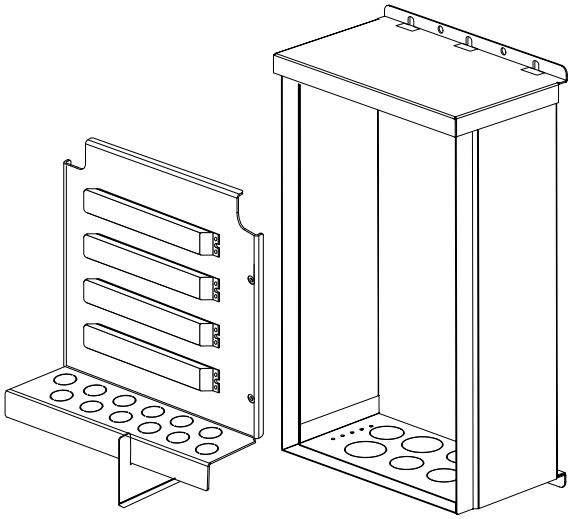
- To order additional lengths of wire for connection in the secondary. Please call factory for availability.
- QOM must be installed as shown.

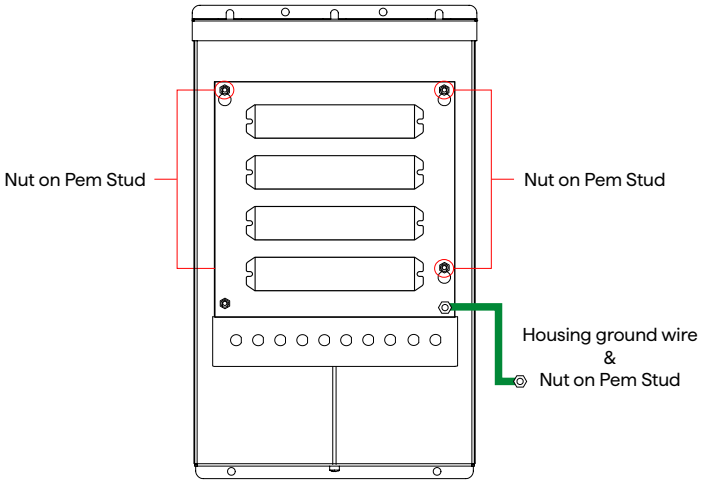
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QOM-eLED+DALI-DT8

Installation Instructions

POWER TRAY INSTALL



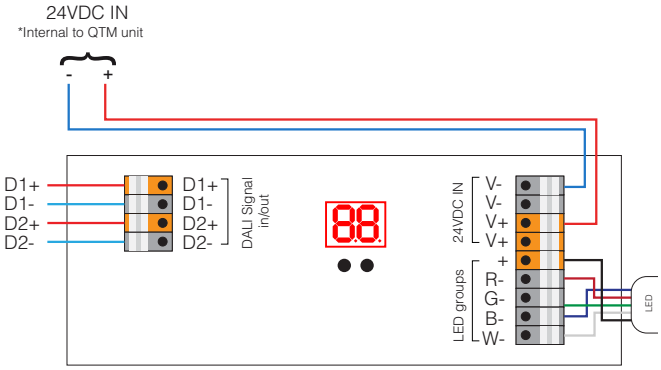


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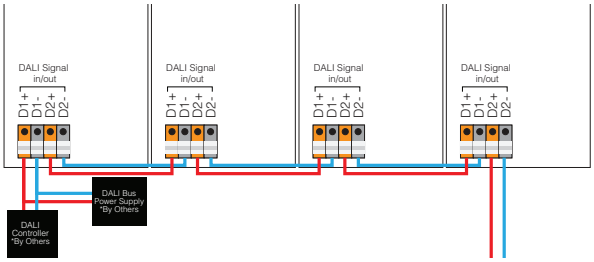
QOM-eLED+DALI-DT8

Installation Instructions

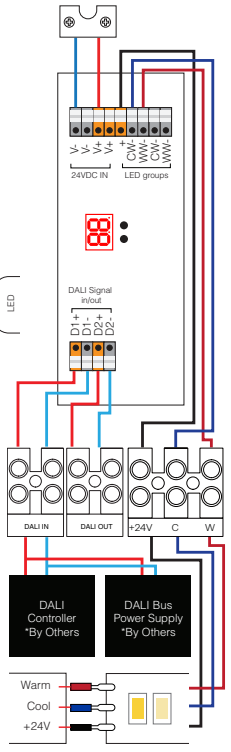
Connecting and Configuring the DALI-DT8 Decoder

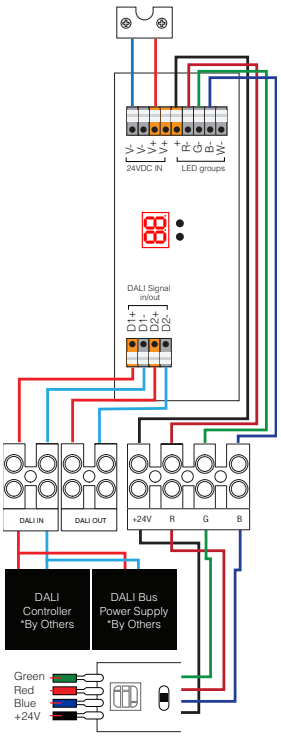


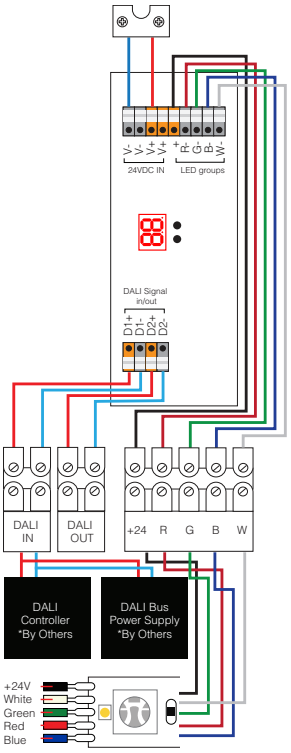
To DALI Controller



3-Wire	4-Wire	5-Wire

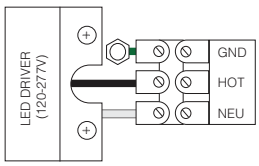






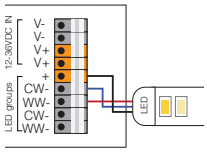
NOTE:
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DALI commissioning to be performed by a third party at time of installation.

Primary Wiring

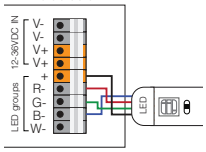


Secondary Wiring

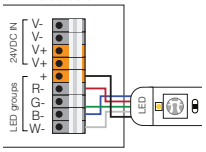
3-Wire default



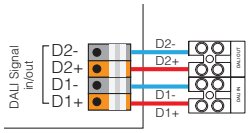
4-Wire default



5-Wire default



Control Wiring: DALI Connections



WARNING: Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

CAUTION: The device may only be connected and installed by a qualified electrician. All applicable regulations, legislation and building codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

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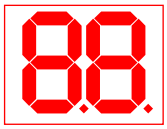
Specification subject to change. Rev-05-07-26

QOM-eLED+DALI-DT8

Installation Instructions

Manual Configuration

Digital display

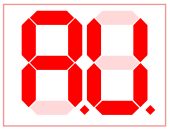


1 2

0-6 0-9

Manual set button

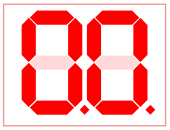
1. Set address manually:



1 2

Press and hold either button
(5 sec)

Set Address



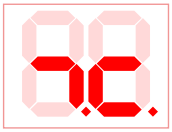
1 2

(tens) (ones)

Use the buttons to set address

00~63

2. Set Output Type:



1 2

Press and hold both button
(5 sec)

Use the second button to
set the output type

 TW

 RGB

 RGBW

Other Features

1. Locking the configuration:

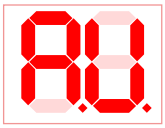


1 2

Press and hold either button
(5 sec)

Confirm

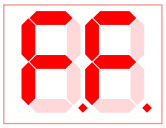
2. Reset to factory defaults:



1 2

Press and hold either button
(5 sec)

Set Address



1 2

Use the buttons to set address

Reset

DT8 Dimming Feature:

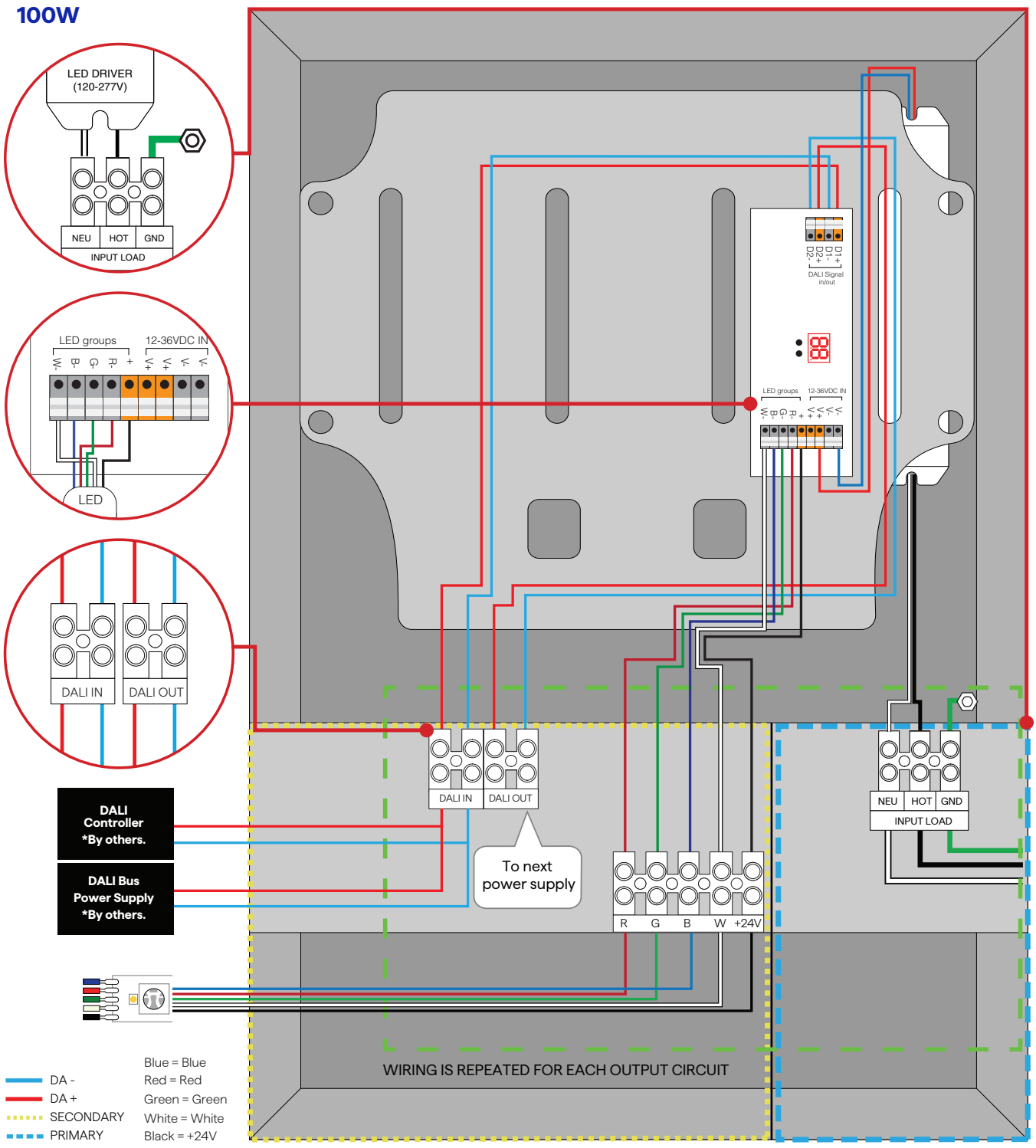
NOTE: DT8 color type of the dimmer can be TW, RGB, or RGBW.

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QOM-eLED+DALI-DT8

Installation Instructions

WIRING DIAGRAM



Only for wiring purposes

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QOM-eLED+DALI-DT8

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.

QOM-eLED

INPUT VOLTAGE ○ 120V - 277V

OUTPUT VOLTAGE ○ 12V ○ 24V

CONTROL TYPE

- ○ 0-10V
- ○ DMX
- ○ WD
- ○ TW
- ○ IA
- ○ DALI-DT6
- ○ DALI-DT8
- ○ ND

Model	Input Voltage (V)	Input Current (A)	Frequency	Nominal Output Voltage (VDC)	Nominal Output Wattage (W)
QOM-eLED-60	120/277	0.60/0.29	50/60	12	60
QOM-eLED-120	120/277	1.20/0.58	50/60	12	120
QOM-eLED-180	120/277	1.80/0.87	50/60	12	180
QOM-eLED-100	120/277	0.95/0.40	50/60	24	100
QOM-eLED-200	120/277	1.90/0.80	50/60	24	200
QOM-eLED-300	120/277	2.85/1.20	50/60	24	300
QOM-eLED-400	120/277	3.80/1.60	50/60	24	400

- Suitable for indoor or outdoor use
  CONVIENT POUR UNE UTILISATION INTÉRIEURE OU EXTÉRIEURE
- Wall mount only
  INSTALLATION MURALE SEULEMENT
- Suitable for mounting within 1.2m (4ft) of the ground
  PEUT ÊTRE INSTALLÉ À MOINS DE 1.2 M (4 PI) DU SOL
- Do not submerse
  NE PAS IMMERGER
- Suitable for under-cabinet mount
  CONVIENT POUR UN MONTAGE SOUS UNE ARMOIRE
- Suitable for wet locations
  CONVIENT AUX EMPLACEMENTS MOUILLÉ
- For supply connections use wire rated for at least 60°C
  POUR LES CONNEXIONS D'ALIMENTATION, UTILISEZ UN FIL ÉVALUÉ AU MOINS À 60°C
- Keep enclosure cover closed
  GARDEZ LE COUVERCLE DU BOÎTIER FERMÉ
- Read Installation Instructions Before Wiring
  LIRE LES INSTRUCTIONS D'INSTALLATION AVANT LE CÂBLAGE
- Class 2
  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.

WARNING: RISK OF FIRE

IF INSTALLATION INVOLVES RUNNING WIRE THROUGH A BUILDING STRUCTURE, SPECIAL WIRING METHODS ARE NEEDED. CONSULT A QUALIFIED ELECTRICIAN.

RISQUE D'INCENDIE. SI L'INSTALLATION IMPLIQUE UN FIL DE COURANT À TRAVERS UNE STRUCTURE DE BÂTIMENT, DES MÉTHODES DE CÂBLAGE SPÉCIALES SONT NÉCESSAIRES. CONSULTEZ UN ÉLECTRICIEN QUALIFIÉ.

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
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(203) 367-8777
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Low Voltage Luminaires
Power Supply Center &
LED Landscape
Lighting System

CLASS: 3425-15
3425-95
3402-15
3402-95

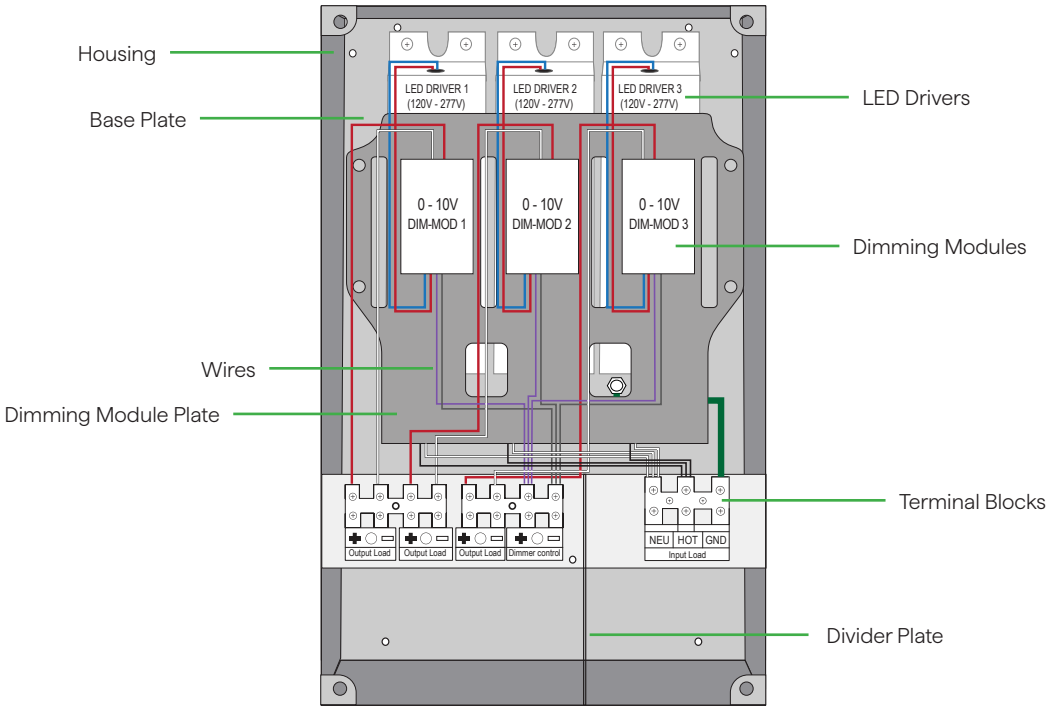
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MATERIAL RECYCLING

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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