QTM-eLED+WD-AWN

24V DC Power Supply - 100W-300W



- Delivers superior performance for Warm Dim applications with its 100W constant voltage LED drivers and proprietary WD dimming module
- Control is provided by one 0-10V input, warming the LEDs as they dim down to simulate incandescent light sources
- 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
- Can be recess or surface mounted
- See QTM-eLED+WD for power supply without Athena Nodes

1 PRODUCT	2 WATTAGE	3 CONTROL	4 PRIMARY VOLTAGE	5 SECONDARY VOLTAGE	6 COLOR
QTM-eLED			UNV	24VDC	

Sample Part Number: **QTM-eLED-200W-WD-AWN-2-UNV-24VDC-WH**

1 PRODUCT

QTM-eLED

WD-AWN-1,2,3 is the quantity of nodes mounted in the QTM enclosure. Multiple Athena nodes allow for multiple control zones in one QTM enclosure.

AWN-3 is available for surface mount installation only.

2 WATTAGE	3 CONTROL
100W	WD-AWN-1
200W	WD-AWN-1 WD-AWN-2
300W	WD-AWN-1 WD-AWN-2 WD-AWN-3

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 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	
SD-SW24/1.0-4.0	
SD-SW24/6.0	
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	

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
- Primary voltage - universal (120-277V)
- Wide operating temperature range: -4˚F to 122˚F
- Fits up to (3):100W 24 VDC driver(s) and Warm Dim Module
- 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

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QTM-eLED+WD-AWN

24V DC Power Supply - 100W-300W

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

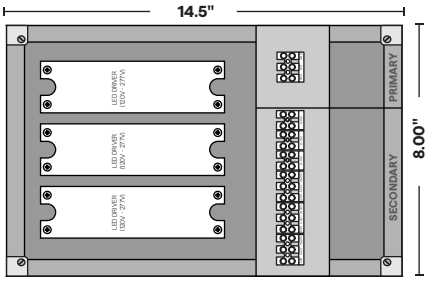
VOLTAGE DROP

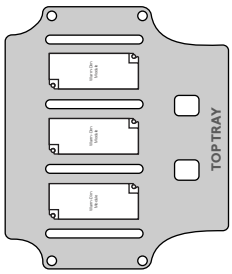
Distance from PS for 1% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	192	121	76	48	30	19	12	7	5
24	30	96	60	38	24	15	9	6	4	2
24	45	64	40	25	16	10	6	4	2	2
24	60	48	30	19	12	8	5	3	2	1
24	80	36	23	14	9	6	4	2	1	1
24	96	30	19	12	7	5	3	2	1	1

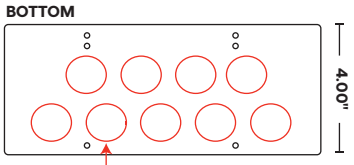
Distance from PS for 3% Voltage Drop										
VDC	Load (W)	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG	26 AWG
24	15	577	362	228	143	90	57	36	22	14
24	30	288	181	114	72	45	28	18	11	7
24	45	192	121	76	48	30	19	12	7	5
24	60	144	91	57	36	23	14	9	6	4
24	80	108	68	43	27	17	11	7	4	3
24	96	90	57	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

1 PRODUCT - DIMENSIONS







9 knockouts of 0.875" hole for 1/2" fitting

NOTE: 16 additional side knockouts

2 TECHNICAL INFORMATION

Wattage	Max Load (Watts)	Secondary Voltage	Max Prim Amps @ 120V	Max Prim Amps @ 277V
100W	1x100W	24VDC	0.95A	0.40A
200W	2x100W	24VDC	1.90A	0.80A
300W	3x100W	24VDC	2.85A	1.20A

3 CONTROL

WD-AWN-1: 1 Lutron Athena Node. 1 zone of control for 100-300W. The entire output is controlled as a single zone.
WD-AWN-2: 2 Lutron Athena Nodes. 2 zones of control for 200-300W. Each of the two outputs are controlled as independent zones.
WD-AWN-3: 3 Lutron Athena Nodes. 3 zones of control for 300W. Each of the three outputs are controlled as independent zones.
AWN-3: is available for surface mount installation only.

Total Wattage	WD-AWN-1	WD-AWN-2		WD-AWN-3		
	Node 1	Node 1	Node 2	Node 1	Node 2	Node 3
100W	100W	-	-	-	-	-
200W	200W	100W	100W	-	-	-
300W	300W	200W	100W	100W	100W	100W

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

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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

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

HOUSING

- Rated for surface mount or recessed 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 0-10V 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
  - Manufacturer offers a minimum of 5-year warranty
- Terminal blocks are made of tin plated copper with a voltage rating of 300V and a current rating of 40A

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 (W)	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

*-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-8750
  - CSA C22.2 No 250.0-08
  - CSA C22.2 No 250.13-14

6 COLOR

White (Standard)

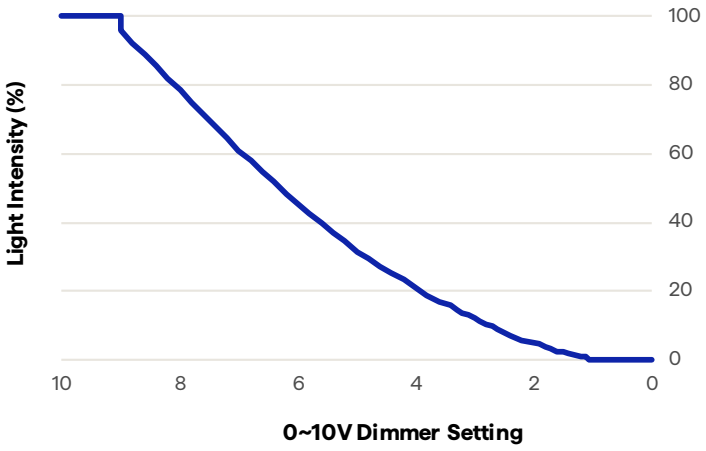
Black Powder Coat Finish

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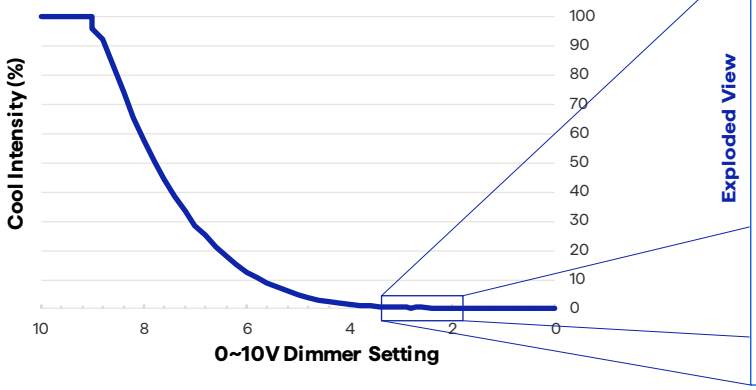
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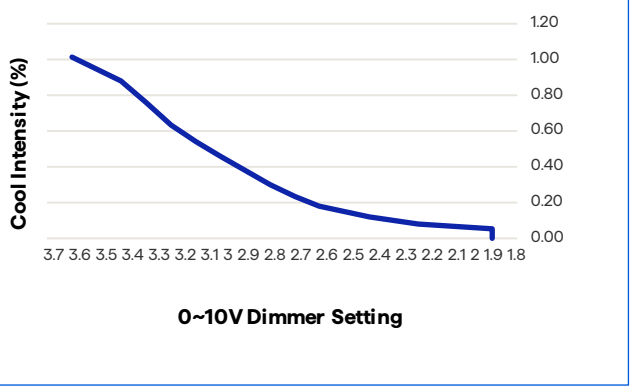
Dim to Warm Intensity



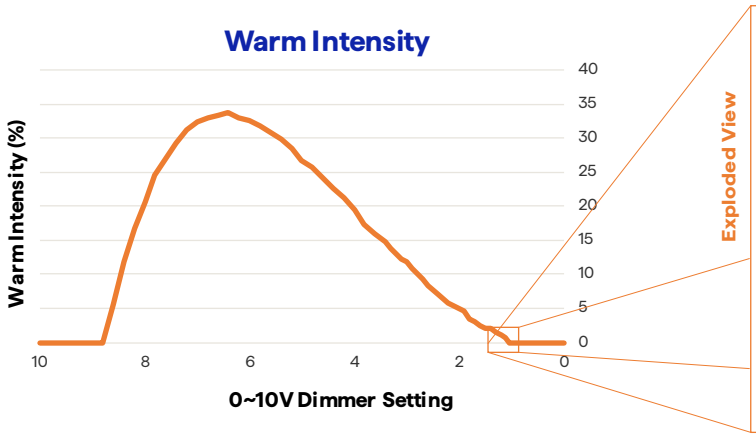
Cool Intensity



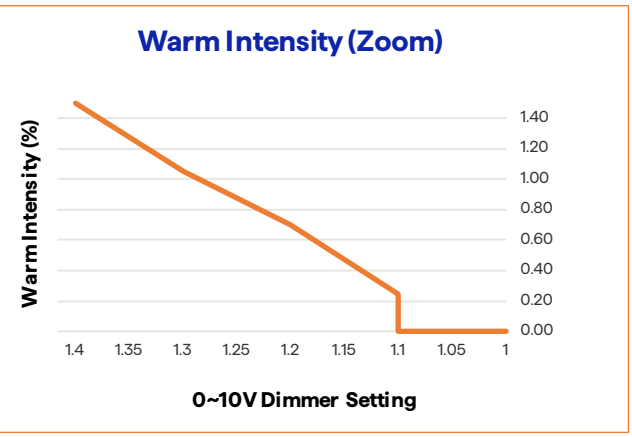
Cool Intensity (Zoom)



Warm Intensity



Warm Intensity (Zoom)

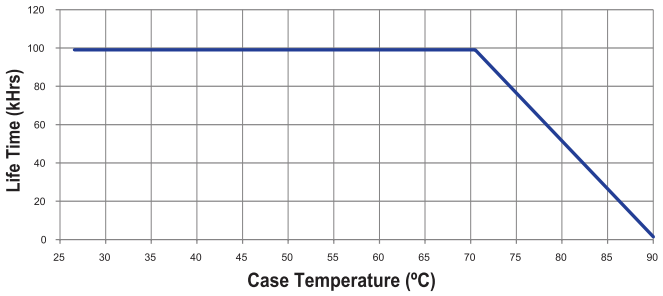


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QTM-eLED+WD-AWN

24V DC Power Supply - 100W-300W

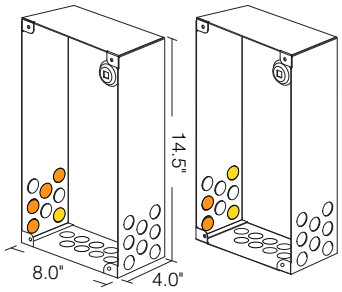
Life Time vs. Case Temperature



NODE AND CONDUIT ENTRY LOCATIONS

RECESSED MOUNT

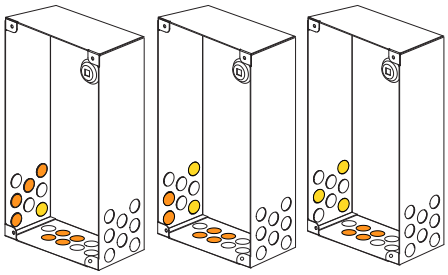
AWN-1 **AWN-2**



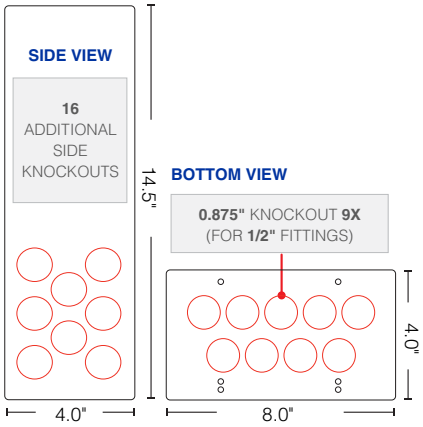
ISO VIEW

SURFACE MOUNT

AWN-1 **AWN-2** **AWN-3**



NOTE: AWN-3 is available for QTM-eLED+WD and QTM-eLED+0-10V only.



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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