

Specifications

Regulatory Approvals

- Meets ANSI C62.41 category A surge protection standards up to and including 4 kV.
- FCC Part 15 compliant for commercial applications at 120 V \sim or 277 V \sim .
- Manufacturing facilities employ ESD reduction practices that comply with the requirements of ANSI/ESD S20.20.
- Lutron® Quality Systems registered to ISO 9001.2008.
- UL® 8750 recognized.
- UL® recognized models are also UL® classified to 1598C for field replacement capability
- UL® 8750 listed form factor available.
- Class 2 output available.
- Type TL Rated.

UL® 8750 Listed Option

- cULus® for United States and Canada available for certain operating regions.
- Pre-wired and installation ready.
- See **KL Enclosure** page for more specific details regarding UL® listed option.

Environmental

- Sound Rating: Inaudible in 27 dB ambient.
- Relative Humidity: Maximum 90% non-condensing.
- Minimum operating ambient temperature $t_a = 32\text{ }^\circ\text{F}$ ($0\text{ }^\circ\text{C}$).

Performance

- Dimming Range: 100% to 1%.
- Operating Voltage: 120–277 V \sim at 50/60 Hz.
- Lifetime: 50,000 hours @:
 - $t_c = 149\text{ }^\circ\text{F}$ ($65\text{ }^\circ\text{C}$)¹ for 40 W drivers.
 - $t_c = 158\text{ }^\circ\text{F}$ ($70\text{ }^\circ\text{C}$)¹ for 50 W drivers.
 - For rated warranty, t_c not to exceed the maximum rated temperatures listed here.¹
- Patented thermal foldback protection.
- LEDs turn on to any dimmed level without going to full brightness.
- Non-volatile memory restores all driver settings after power failure.
- Power Factor: >0.90 for loads greater than 25 W
- Standby Power Consumption: < 1.0 W
- Total Harmonic Distortion (THD): <20% for loads greater than 25 W.
- Inrush Current: < 2 A.
- Inrush Current Limiting Circuitry: eliminates circuit breaker tripping, switch arcing and relay failure.
- Open circuit protected.
- Short circuit protected.
- Turn-on time: ≤ 1.5 seconds.²
- PWM Dimming Frequency: 550 Hz.

Driver Wiring & Mounting

- Driver is grounded by a mounting screw to the grounded fixture (or by terminal connection on the K-case).
- Terminal blocks on the driver accept one solid wire per terminal from 18 AWG to 16 AWG (0.75 mm^2 to 1.5 mm^2).
- Fixture must be grounded in accordance with local and national electrical codes.
- For maximum driver to LED light engine wire lengths see **Driver Leads** section at end of document.

¹ Installer is responsible for ensuring that the driver case temperature does not exceed the maximum rated temperature.

² Models available with turn-on time ≤ 1 second.

<p>Job Name:</p> <p>Job Number:</p>	<p>Model Numbers:</p>
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How to Build a Model Number: Hi-lume® 1% EcoSystem™/3-Wire

L3DA U1U

Maximum Power:
 4 = 40 W maximum
 5 = 50 W maximum
 (K-case only)

Case Size:
 K = Compact
 M = Stick

Case Style:
 S = Studded
 (K case only)
 N = Non-Studded
 L = UL® Listed
 (K case only)

Example: L3DA4U1UKS-HC070
 For further assistance selecting your model number, contact our LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com

Current Level (for Constant-Current):
 020 = 0.20 A; 021 = 0.21 A . . . 070 = 0.70 A . . . 210 = 2.10 A

Voltage Level (for Constant-Voltage):
 100 = 10.0 V; 105 = 10.5 V . . . 600 = 60.0 V

Driver Output:
 C = Constant-current driver
 with pulse width modulation (PWM) dimming
 A = Constant-current driver
 with constant-current reduction (CCR) dimming
 V = Constant-voltage driver
 with pulse width modulation (PWM) dimming

LED Load Output Range (see the following pages for more detail):

40 W Drivers		50 W Drivers	
<u>Class 2 Constant-Voltage</u>	<u>Class 2 Constant-Current</u>	<u>Class 2 Constant-Current</u>	
A = 10.0 V–12.0 V*	E = 0.20 A–0.50 A 30 V–54 V	N = 0.71 A–1.05 A 35 V–54 V**	
B = 12.5 V–20.0 V**	F = 0.51 A–1.00 A 30 V–54 V**		
C = 20.5 V–24.0 V**	G = 0.20 A–0.70 A 8 V–20 V	<u>Isolated Non-Class 2</u>	
D = 24.5 V–38.0 V**	H = 0.20 A–0.70 A 15 V–38 V	<u>Constant-Current</u>	
	I = 0.71 A–1.05 A 8 V–20 V	W = 0.71 A–1.05 A 35 V–60 V**	
<u>Isolated Non-Class 2</u>	J = 0.71 A–1.05 A 15 V–38 V		
<u>Constant-Voltage</u>	K = 1.06 A–1.50 A 8 V–20 V		
X = 38.5 V–60.0 V**	L = 1.06 A–1.50 A 15 V–38 V**		
	M = 1.51 A–2.10 A 8 V–19.9 V**		
	<u>Isolated Non-Class 2</u>		
	<u>Constant-Current</u>		
	Y = 0.20 A–0.50 A 30 V–60 V		
	Z = 0.51 A–1.00 A 30 V–60 V**		

* 3.33 A maximum.
 ** Output parameter is power-limited for these output ranges. Consult detailed specifications on the following pages for each range.

LUTRON® SPECIFICATION SUBMITTAL Page

Job Name:	Model Numbers:
Job Number:	

How to Build a Bulk Model Number (For use with Lutron® QwikFig™ technology): Hi-lume® 1% EcoSystem™/3-Wire

40 W Drivers

L3DA4U1U - BLK

Case Size:

K = Compact
M = Stick

Case Style:¹

S = Studded
(K-case only)
N = Non-Studded
(All M-case models)

Bulk Models:

Coverage based on “LED Load Output Range” from standard non-configurable models shown in the **How to Build a Model Number** section.

Example Standard model number: L3DA4U1UKS-HC070 has LED load output range = H

K-case and M-case

1A = Covers “LED Load Output Range” Y and Z

2A = Covers “LED Load Output Range” M

3A = Covers “LED Load Output Range” E and F (CCR dimming only)

K-case only

2G = Covers “LED Load Output Range” G

2H = Covers “LED Load Output Range” H

2R = Covers “LED Load Output Range” I and K

2S = Covers “LED Load Output Range” J and L

M-case only

2B = Covers “LED Load Output Range” H, J, and L

2C = Covers “LED Load Output Range” G, I, and K

50 W Drivers

L3DA5U1UK - BLK

Case Style:

S = Studded
N = Non-Studded

1B = Covers “LED Load Output Range” W

3B = Covers “LED Load Output Range” N (CCR dimming only)

Note: Only the model numbers falling into the structure listed above can be configured with QwikFig™. Standard model numbers configured at Lutron will not be capable of being reconfigured at another facility.

¹ QwikFig™ bulk drivers are only available as UL® recognized.

Job Name:	Model Numbers:
Job Number:	