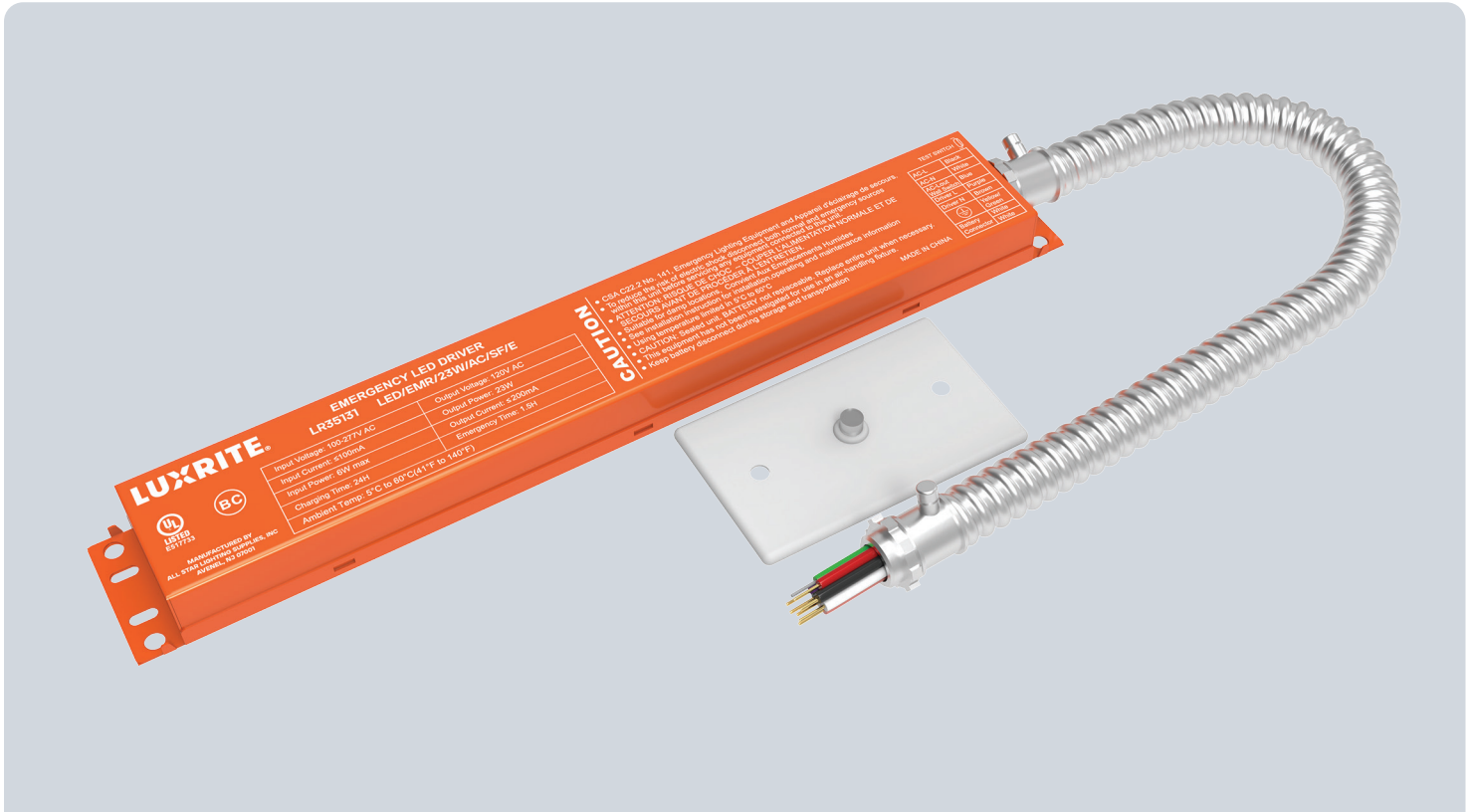


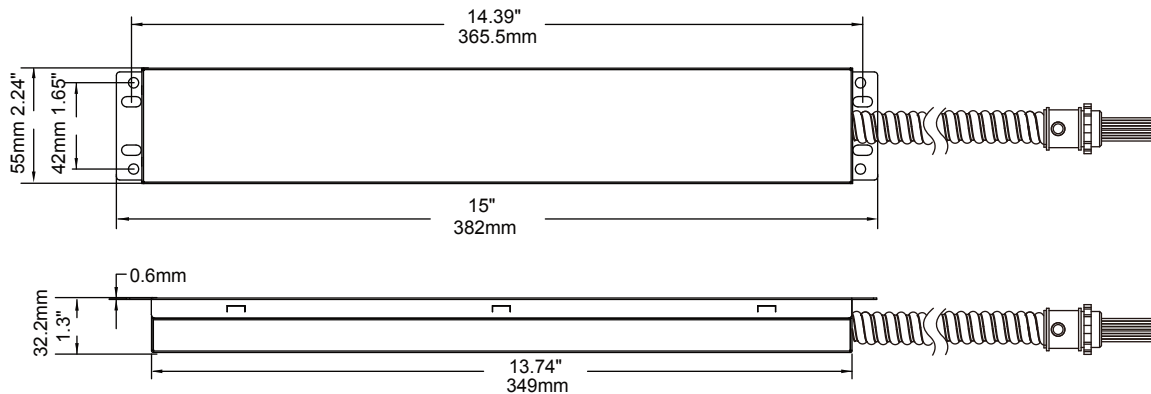
EMERGENCY LED DRIVER LR35131 - LED/EMR/23W/AC/SF/E 23W



SPECIFICATIONS

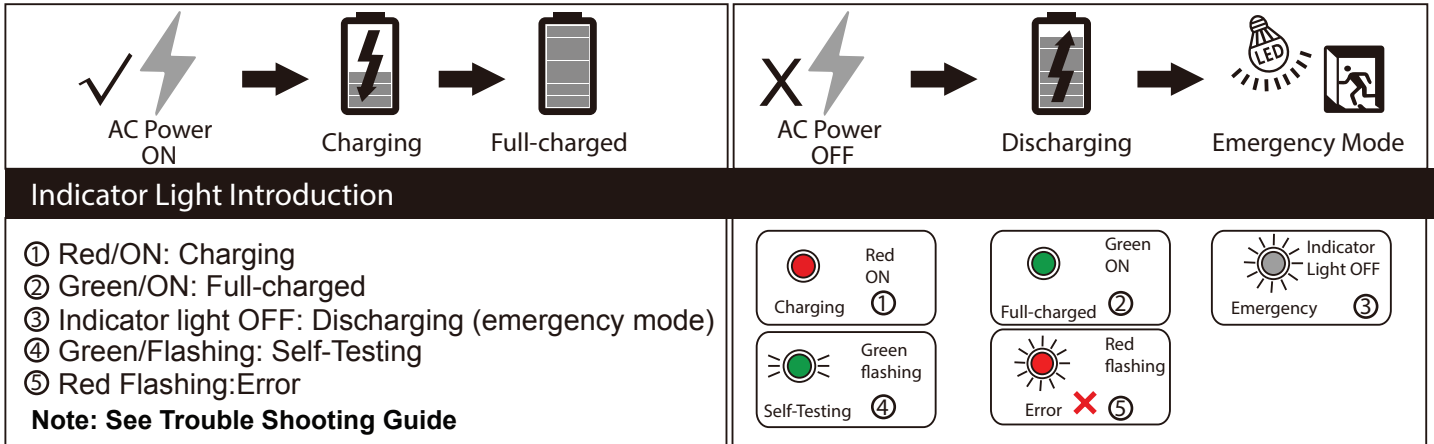
MODEL	DESCRIPTION	EM POWER	INPUT VOLTS	FREQUENCY	INPUT CURRENT	INPUT POWER	OUTPUT VOLTAGE	RECHARGE TIME	EMERGENCY TIME
LR35131	LED/EMR/23W/AC/SF/E	23	100-277V	50/60Hz	<100mA	6W max	AC 120V	24Hr	90min

DIMENSIONS

















SELF-TEST:

This unit contains a control/monitor circuit that if enabled automatically performs a 30-second discharge test once a month and a full 90-minute discharge test once a year. During routine testing, the self-testing emergency driver simulates an AC power failure causing the unit to automatically switch to emergency mode. The unit will monitor the operation of the LED load, battery voltage, and emergency duration. If the emergency system functions properly, then the unit will return to normal mode. Should the unit detect any problems, the indicator light will flash per failure condition (see Troubleshooting Guide) until the condition has been corrected and the unit passes the next test.



TEST SWITCH INDICATOR STATUS & TROUBLE SHOOTING GUIDE


The charge indicator will be lit Solid Red when charging, and will be lit Solid Green when fully charged and in the standby mode. The indicator will flash Green when self-testing. If a problem is encountered during the test cycle, the indicator will flash Red, according to the diagnostic codes below:

Mode	LED Indicators Status	Error	EM Driver Status / Mode	Corrective Action
Normal Mode	Solid Green 	None	Battery fully charged/System OK	/
	Solid Red 	None	Battery is charging	/
	None.Both LEDs OFF 	None	In EM mode or emergency run-time is ended	/
	Flashing Green, 1s ON/ 1s OFF 	None	Self-Diagnostic test underway	/
Fault Mode	Very slow Flashing Red, 0.5s On / 0.5s Off 	LED Load	1. LED output load is short / Over Current/Over Voltage/Open load/ OCP in EM Mode. 2. Output circuit failure in EM mode.	Check for Open or Short circuit on the output connections.
	Red Flashing×2  	Charging	/	1. Check input AC mains wiring of Unswitched Hot, Neutral and Ground. 2. Verify Voltage and Frequency are stable and match the input rating.
	Red Flashing×3   	Battery	Battery failure Battery not connected	Replace battery check battery switch or connection.
	Red Fast Flashing×4    	Battery	Indicates that a self-test / self-diagnostic test did not meet full duration	1. Charge the unit for the rated recharge time and perform a manual self- diagnostic test. 2.If error is still present replace battery.

MANUAL TEST

- **Initial Testing** – Quick discharge test: Press the Test button 1 time to simulate emergency mode; LED load will light up for 5 seconds
- **Monthly** – 30-second test: Press the Test button 3 seconds continuously can conduct a monthly test; LED load will light up for 30 seconds.
- **Annually** – 90-minute test: Press the Test button 6 seconds continuously can conduct an annual test; LED load will light up for 90 minutes.
- During Emergency Mode, Press and hold test switch 6 seconds can to cut off the emergency output and enter Shipping Mode.
- **Note:** during any manual test, press and hold the Test Button/Test Switch for 1 second to terminate a manual test.

WIRING DIAGRAM

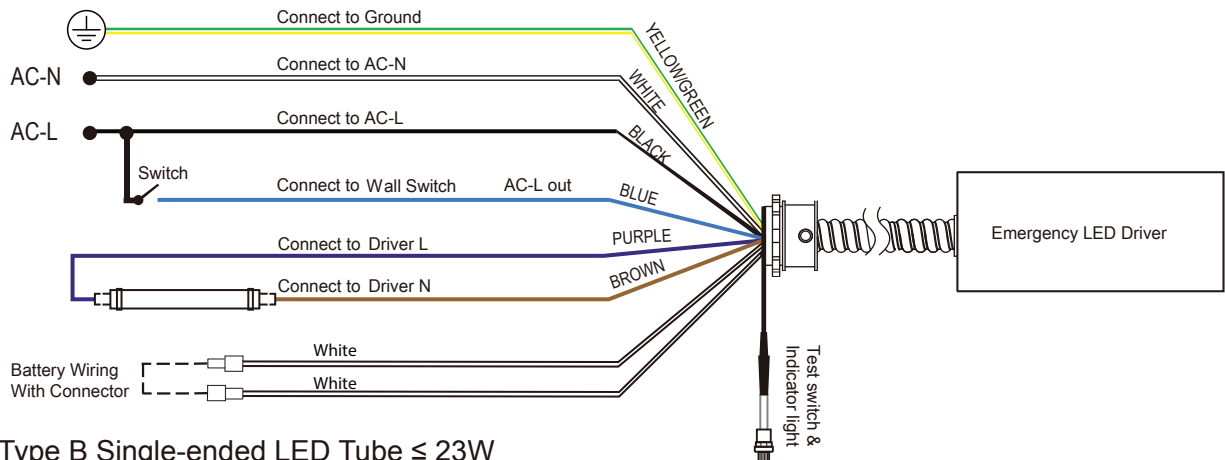
 **CAUTION:** Before installing, make certain the AC power is off.



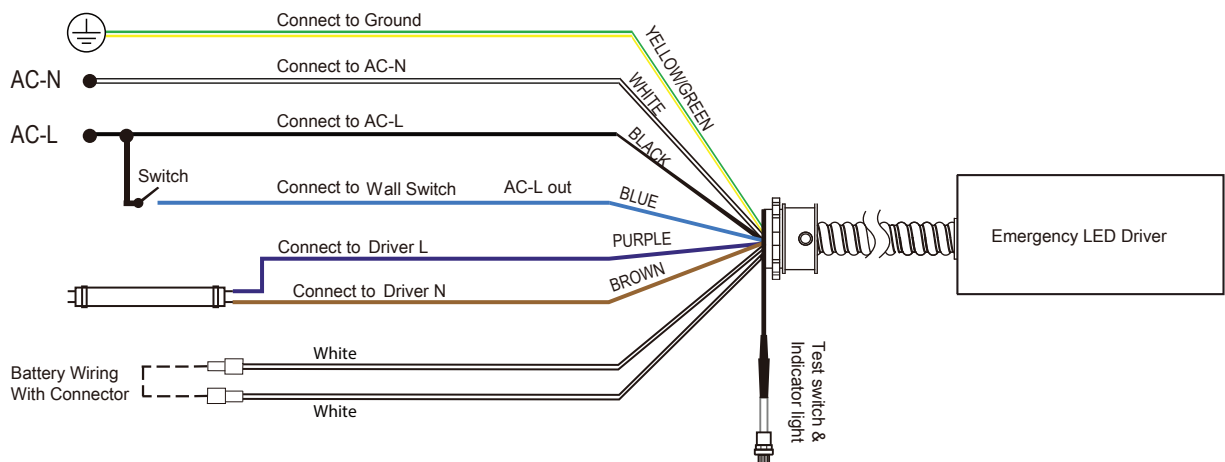
ATTENTION:

1. NOTE: PLEASE PRESS TEST BUTTON TWICE TO MAKE CERTAIN THE BATTERY IS TURNED OFF, BEFORE INSTALLATION, MAINTENANCE, STORAGE OR SHIPPING.
2. DO NOT MATE UNIT CONNECTOR UNTIL INSTALLATION IS COMPLETE.
3. FULL EMERGENCY POWER, THE LAMP POWER MUST BE LESS THAN THE EMERGENCY POWER.

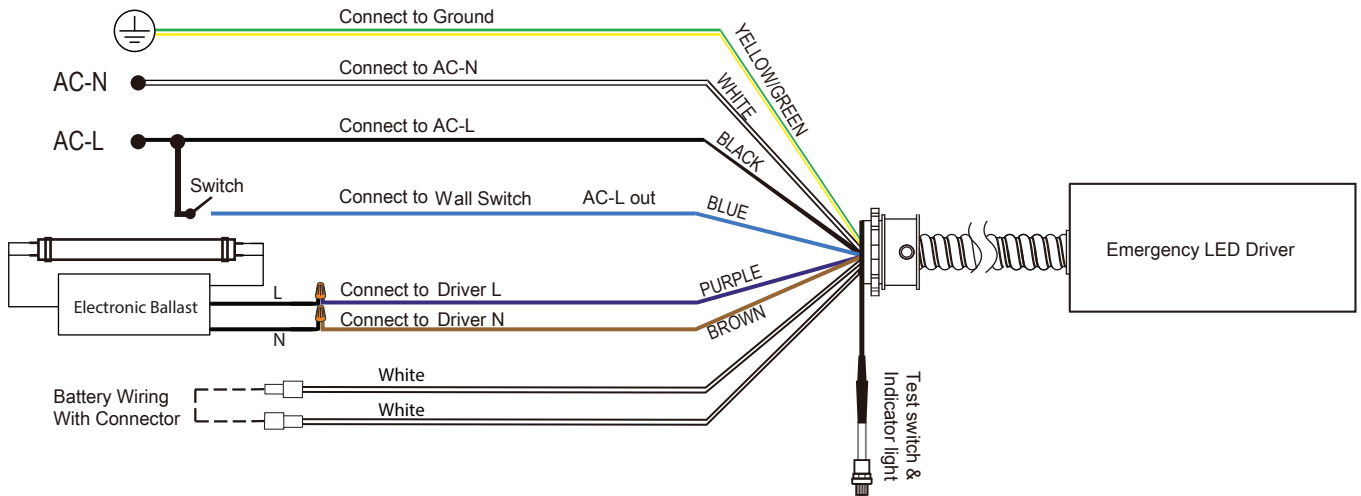
1 For Type B Double-ended LED Tube ≤ 23W



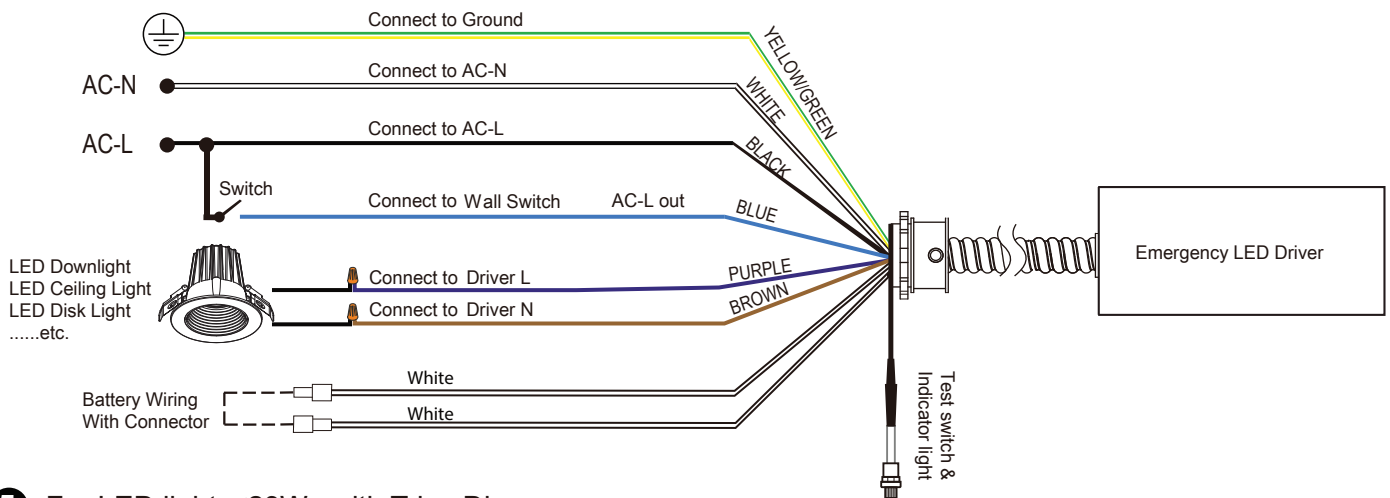
2 For Type B Single-ended LED Tube ≤ 23W



3 For Type A LED Tube ≤ 23W



4 For LED lights ≤ 23W, without using Triac Dimmer



5 For LED lights ≤ 23W, with Triac Dimmer

