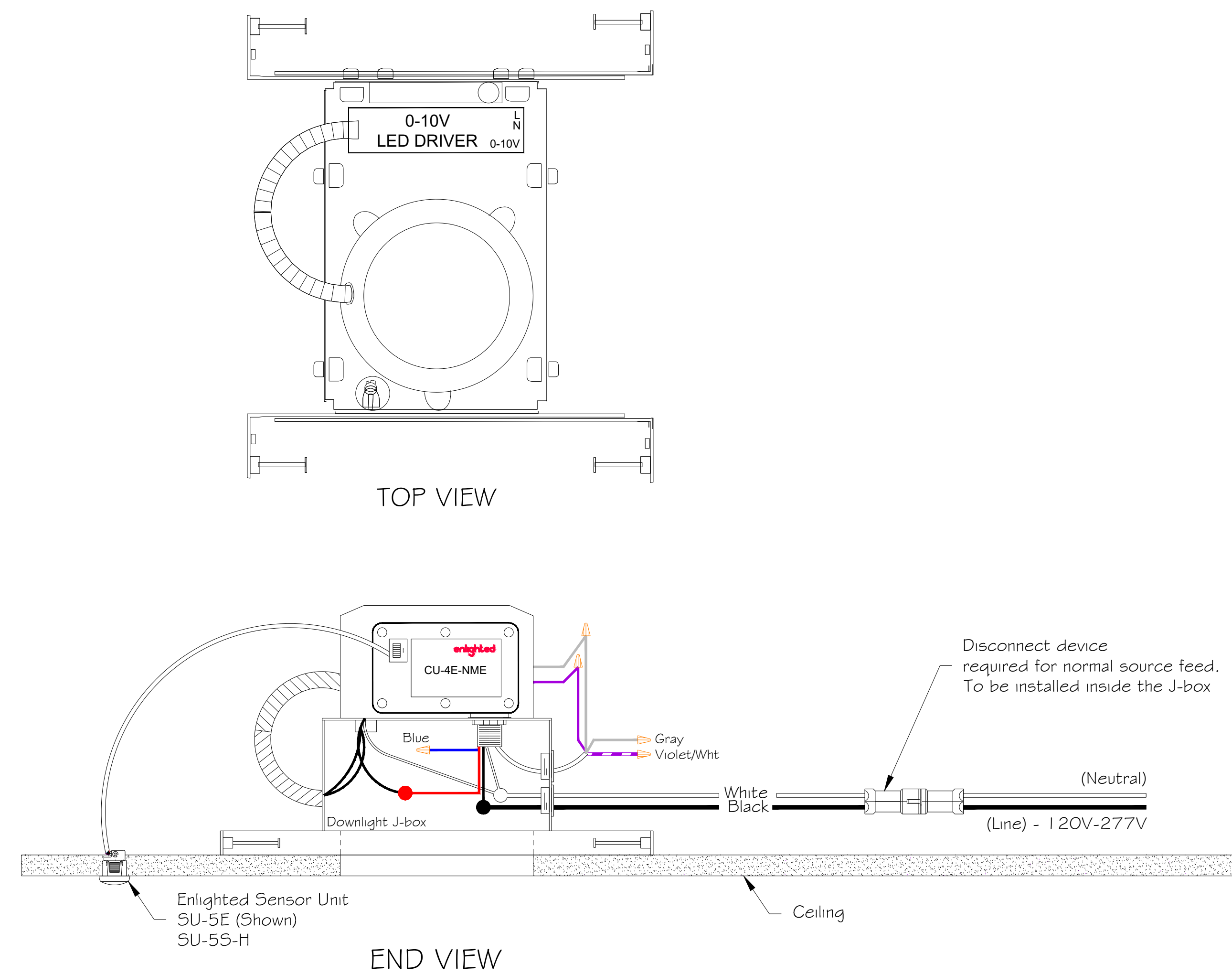
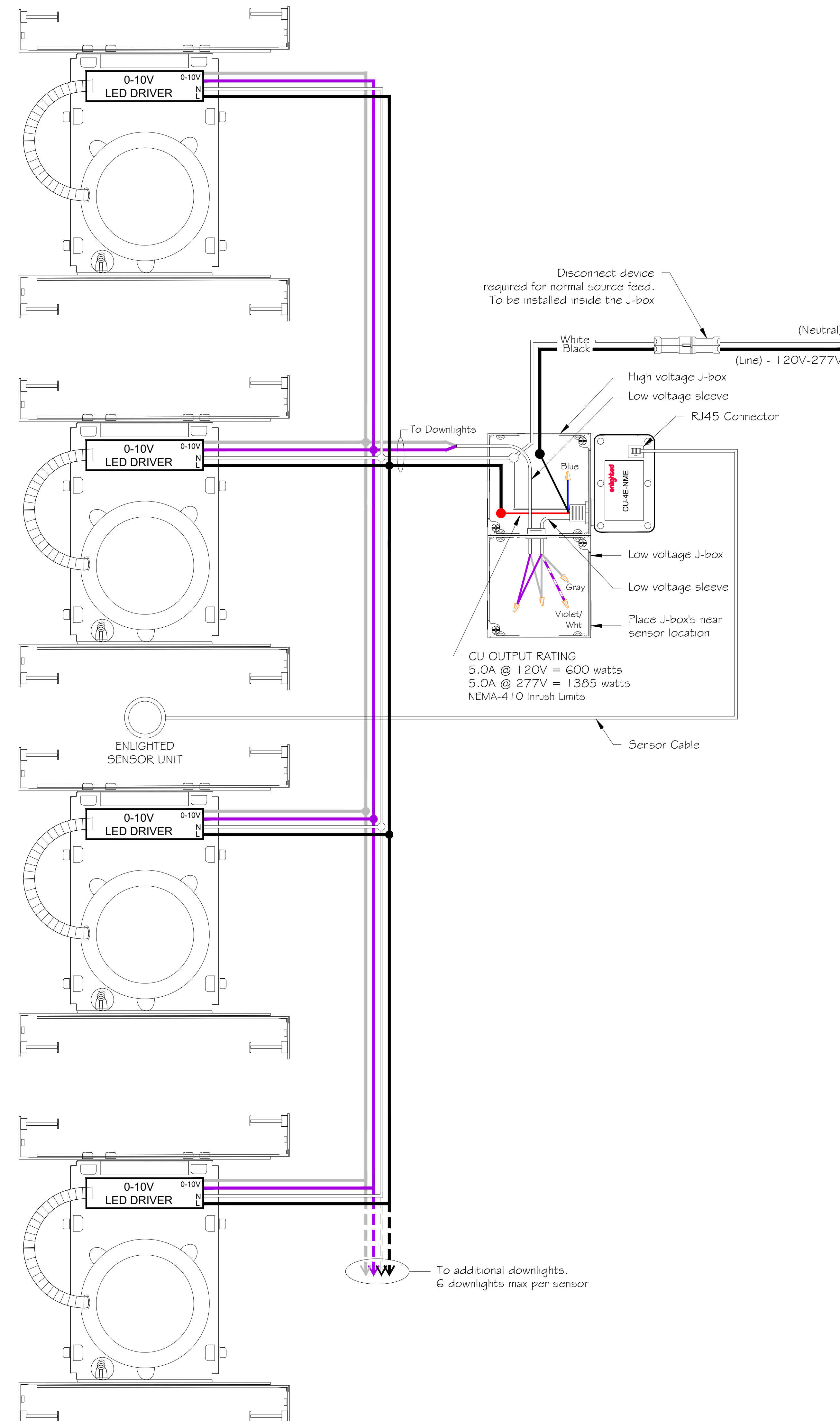


ENLIGHTED CONTROL UNIT (CU-4E-NME) CONTROLLING A SINGLE DOWNLIGHT

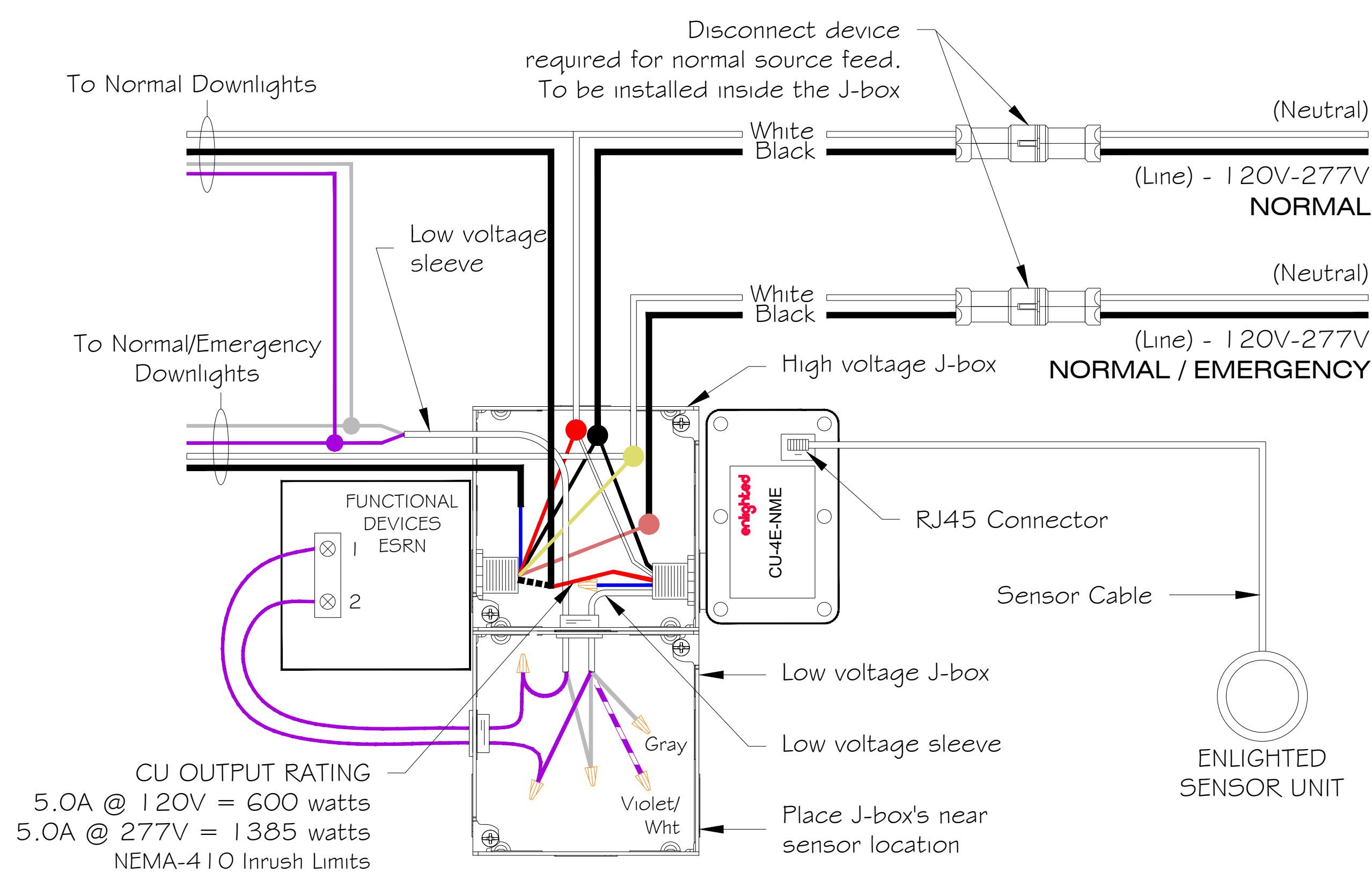


ENLIGHTED CONTROL UNIT (CU-4E-NME) CONTROLLING MULTIPLE DOWNLIGHTS



NOTE: Install in accordance with National and Local Electrical Codes in compliance with AHJ requirements.

CU-4E-NME w/ FUNCTIONAL DEVICES UL924 - ESRN



GENERAL NOTES:

1. Follow manufacturer's guidelines for proper downlight wiring
2. For proper Enlighted design, use any number of downlights, up to a maximum of 6 downlights per sensor
3. 2 each 5 Square J-box's are required for multiple downlights on one sensor; and are to be supplied by others.

CONTROL UNIT LOAD LIMIT, NEMA 410 RATING & SOURCE/SINK LIMITS

Enlighted Control Unit Load Limit, NEMA 410 Rating and 0-10 VDC Source/Sink limits cannot be exceeded when installing multiple drivers on a single Sensor/CU. CU Load limit is 5A, NEMA 410 rating for Peak Inrush current is 320A and the Source/Sink limit of the 0-10VDC Control wires is +/- 10mA.

enlighted
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INTENDED USE:
This diagram indicates a value engineered method where multiple fixtures with both Normal and Emergency drivers can be controlled via a single Sensor Control unit (CU) and UL924 device. The advantage of this Field Installation method is that there is only a single Sensor & CU required for all fixtures. All fixtures are fully dimmable and can be turned ON/OFF during normal operation. The disadvantage is that there will be no Energy Metering of the Emergency fixture(s) any time of normal or emergency operation.

The ESRN version of the Functional Devices (FD) UL924 device shown has a momentary delay in energizing the Emergency fixture when motion is detected by the sensor. The normal fixtures do not have this momentary delay. This lack of uniformity in energizing all fixtures at the same time may be objectionable. If this is an issue, the ESRBCND version of the FD UL924 device has a No Delay feature that allows all fixtures to energize at the same time. This device is not Plenum Rated and will need to be installed in a J-Box or NEMA enclosure. Both the ESRN & ESRBCND devices have similar wiring details, and all Line Diagrams are available through the Enlighted Support Help Desk.

AVAILABLE SENSORS	MATCHING CABLE TYPE
SU-5E	CBL-5E-CU4-30N
SU-5E	CBL-5E-CU4-7F
SU-5S-H	CBL-RJ45-RJ45-7F
SU-5S-LRW	Sensor includes 22" of cable*
SU-5S-HRW	Sensor includes 22" of cable*

*NOTE: If more than 22" is needed, add part numbers, CBL-RJ45-RJ45-7F and CPL-RJ45

ESRN FUNCTIONALITY

1. Blue wire feeds the Emergency driver and the Emergency driver is NOT power metered by the Enlighted systems.
2. Violet wires ensure dimming circuit is open during emergency condition (N.O.)
3. Driver must go to full on when 0-10V is absent.
4. Emergency driver switching is delayed 1-2 seconds from normal driver switching by the ESRN. If this delay is not acceptable the ESRBCND may be used with a suitable enclosure.

93-03205-03

Sheet Title

**DOWNLIGHT
DETAILS**

Date: 11/19/2021

Scale: NOT TO SCALE

Sheet No.

LC-0.03