KIRLIN
HEALTHCARE LIGHTING

Installation Guide/Owner's Manual
Hitsville Thru-the-Wall Nightlight

Technical Support: 313-259-6400, Press 5

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KIRLIN
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1.0 OWNER/USER RESPONSIBILITY

It is the responsibility of the contractor, installer, buyer, owner and user to install, maintain, and operate this luminaire in accordance with all applicable laws, regulations and local electrical safety authority requirements.

This product is only to be installed by a qualified electrician.

IMPORTANT!
Thoroughly read the entire instructions guide and warnings before beginning installation. The instructions provided are intended to assist in the installation and service of the corresponding product. Failure to follow the instructions may result in product malfunction, damage, injury or death. Contact your Kirlin service representative for replacement parts and procedures.

2.0 SAFETY & IMPORTANT INFORMATION

Risk of fire or electric shock. Ensure all power is disconnected during installation process. Refer to wiring diagrams to prevent damages and malfunctions.

This luminaire may only be connected and installed by a qualified electrician. This luminaire requires knowledge of luminaires and electrical systems. If not qualified, do not attempt installation or maintenance. All applicable regulations, legislation, and building codes must be observed.

Connecting fixtures with power **ON** will "hot plug" the LEDs and cause damage.

To prevent wiring damage or abrasion, do not expose wiring to edges metal or other sharp objects.

3.0 STANDARDS & COMPLIANCE

UL Listed	UL 1598
Restriction of hazardous substances	RoHS Compliant

4.0 ELECTRICAL REQUIREMENTS

Nominal input voltage range AC	120 - 277V
Input frequency range	50 - 60Hz
Maximum wattage	4W
Power factor at full load	> 0.95
Surge protection	1kV differential mode (DM) 2kV common mode (CM)

5.0 BEFORE YOU BEGIN

Before You Begin

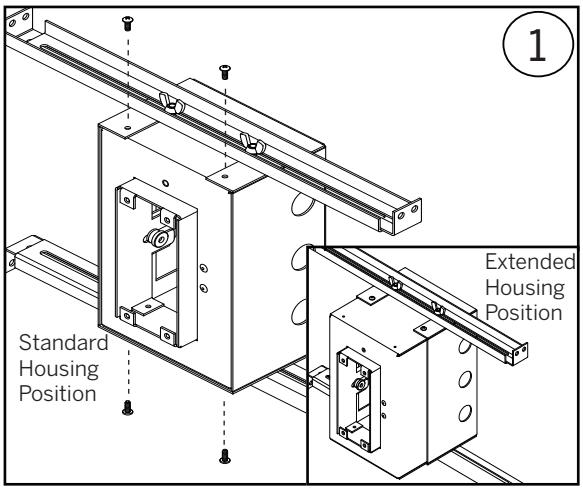
- Shut **OFF** power at fuse box or circuit breaker before installation, inspection or removal.
- To reduce the risk of fire or electric shock, **NEVER** interconnect or short output terminations.

Environmental Conditions

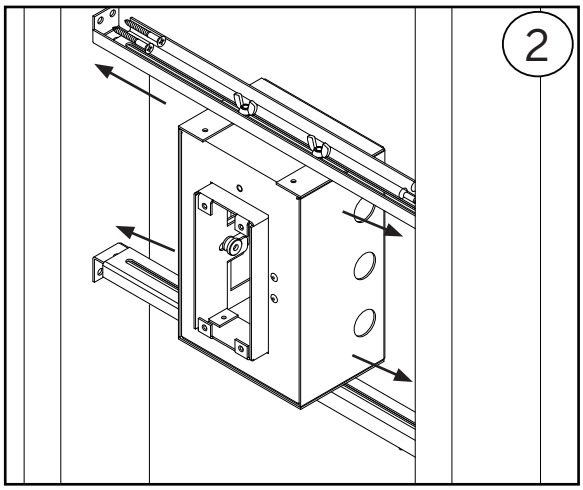
Luminaire operating ambient temperature (Ta) range	-20°C to +60°C
Luminaire	Damp or dry Wet listed faceplate on proper surface, not available for concrete pour

6.0 FIXTURE INSTALLATION

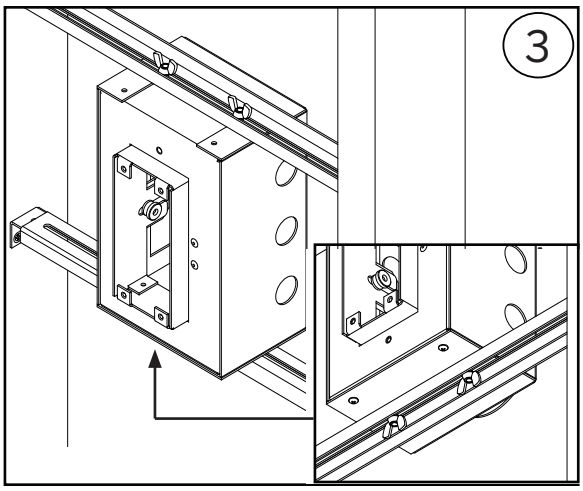
Mounting Housing Box



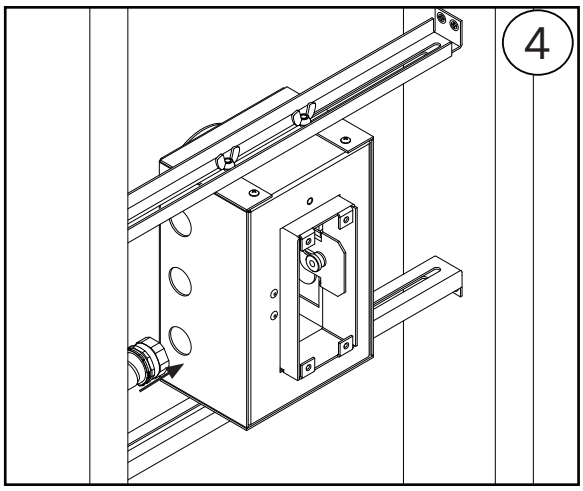
For different stud depths, extend the housing position by removing supplied #6-32 Phillips-head screws x4. Align holes and reinstall fasteners.



Extend supplied mounting bars to studs, level and secure using screws (supplied by others).



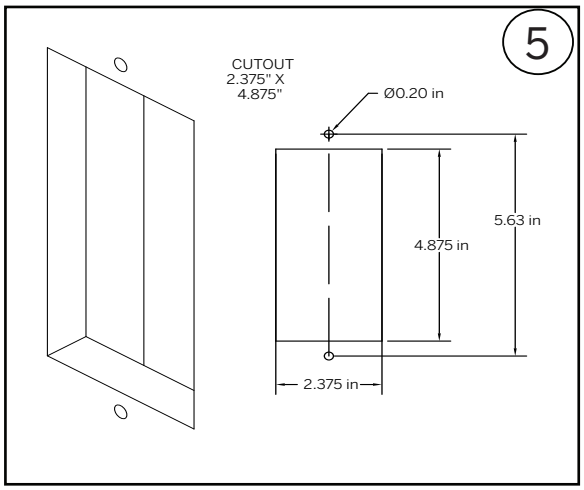
Align housing to desired position. Lock housing in place by tightening supplied #10-24 wing nuts x4.



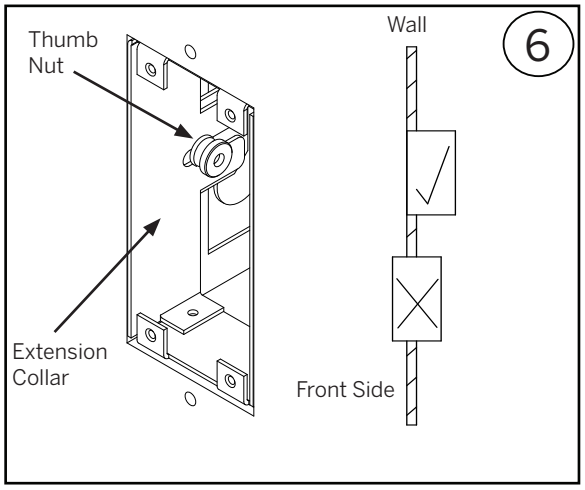
Remove knockout and install conduit (supplied by others).

6.0 FIXTURE INSTALLATION (Continued)

Hanging Sheetrock



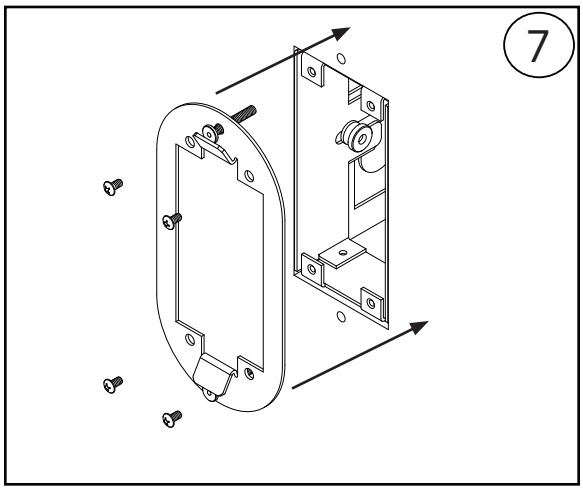
Install drywall with 4.875" x 2.375" cutout for supplied extension collar.



Ensure extension collar sits flush with the wall. If required, adjust the extension collar by loosening supplied #10-24 thumb nuts. Retighten thumb nuts after extension collar adjustment.

NOTE: IF THE HOUSING BOX EXTENDS PAST THE SHEETROCK LAYER THE FIXTURE CAN NOT BE INSTALLED PROPERLY.

Attaching Backer Plate



A. Align the supplied backer plate to the extension collar and secure using supplied #8-32 Phillips-head screws x4.

B. If fixtures were ordered with Option -26 for vandal resistance, secure backer plate to housing using supplied #8-32 5/64" hex socket head screws x2.

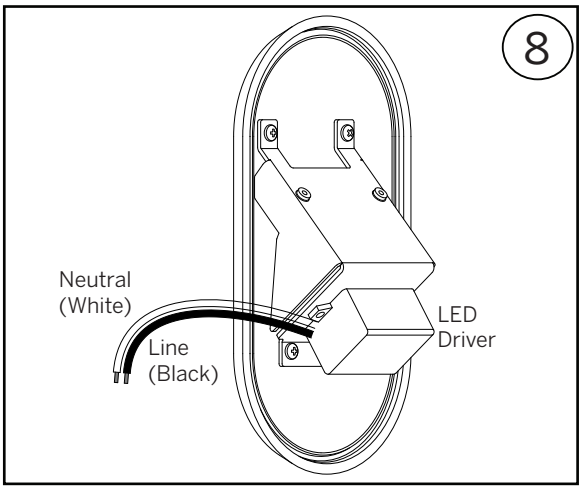
C. Ensure backer plate is tight to the wall.

6.0 FIXTURE INSTALLATION (Continued)

Wiring

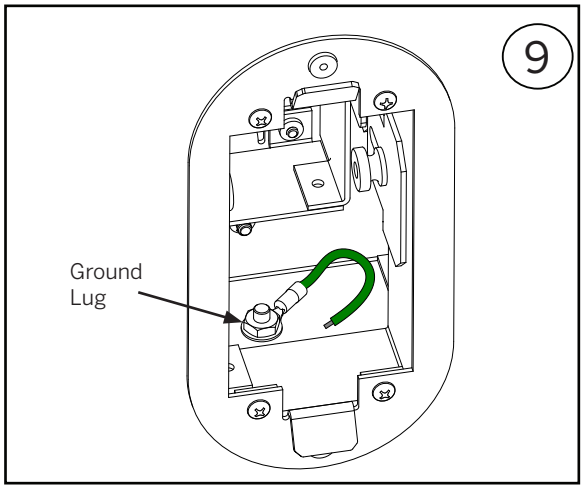
TURN OFF ALL POWER BEFORE WIRING FIXTURE!!!
Reference Wiring Examples for Assistance - Section 9.0

Non-Dimming Driver



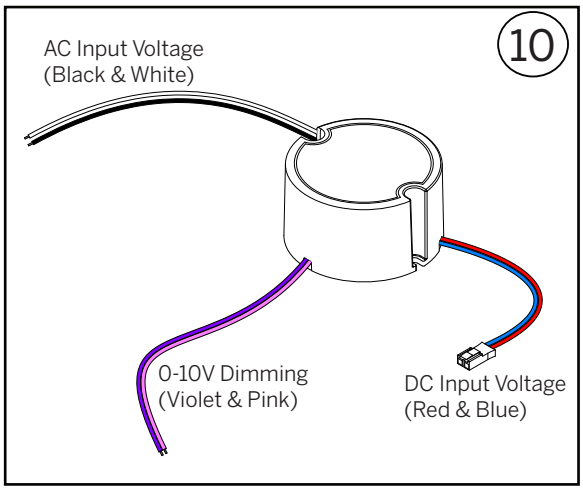
For non-dimming fixtures, connect line (black) and neutral (white wires) from supplied LED driver to corresponding incoming wires.

Ground

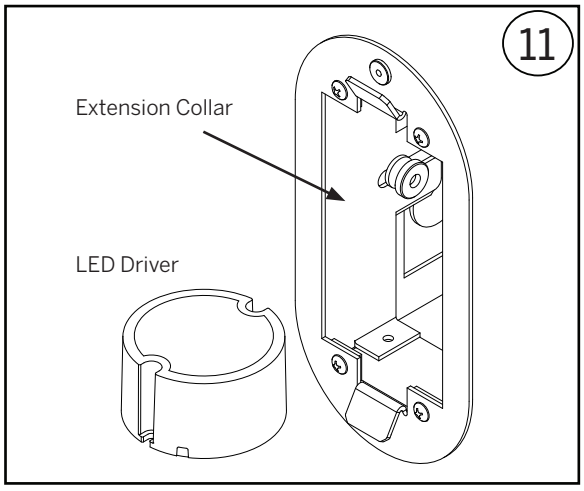


Connect incoming ground wire to supplied ground lug and wire (green) attached to inside of housing.

Dimming Driver



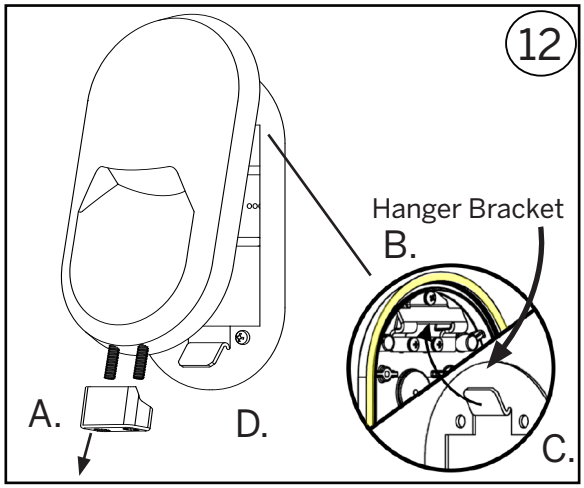
For 0-10V dimming, connect supplied LED driver line (black), neutral (white), DIM+ (violet), and DIM- (Pink) to corresponding incoming wires using wire nuts (supplied by others). Connect supplied 2-wire connector to supplied LED board.



Remove supplied tape backing on bottom of LED driver and place inside housing through extension collar.

6.0 FIXTURE INSTALLATION (Continued)

Attaching Faceplate

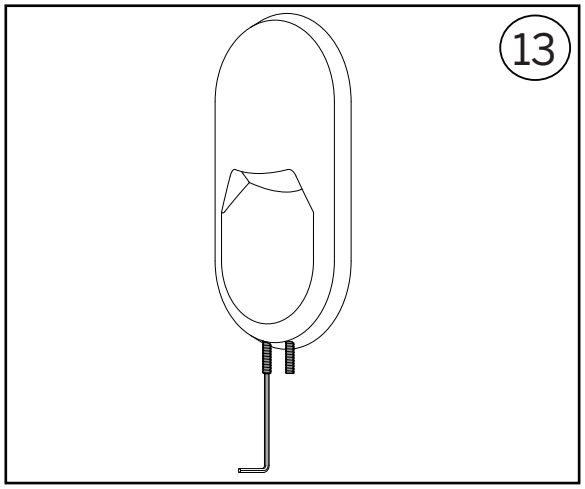


A. If applicable (IP66), remove supplied set screw cover to reveal supplied set screws 2x coated in thread sealer.

B. If using anti-pick caulk, apply to back of supplied faceplate, as shown (surface B), prior to installation.

C. Lower faceplate at angle onto backer plate. Insert top backer plate flange into faceplate hanger bracket.

D. Pivot faceplate down to sit flush on backer plate and wall.



A. Insert and tighten set screws x2 into faceplate.

B. Alternate between set screws before tightening fully into faceplate. Set screws should not extend past the faceplate surface.

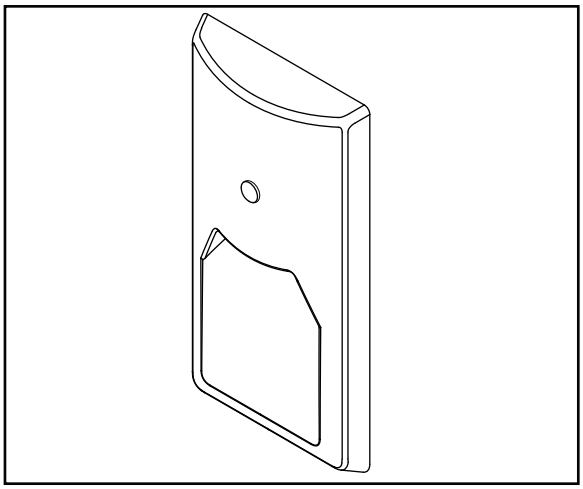
C. Straighten faceplate if necessary while tightening fasteners.

D. Check that faceplate is sitting flush to wall.

E. Clean off any excess thread sealer or caulking after installation.

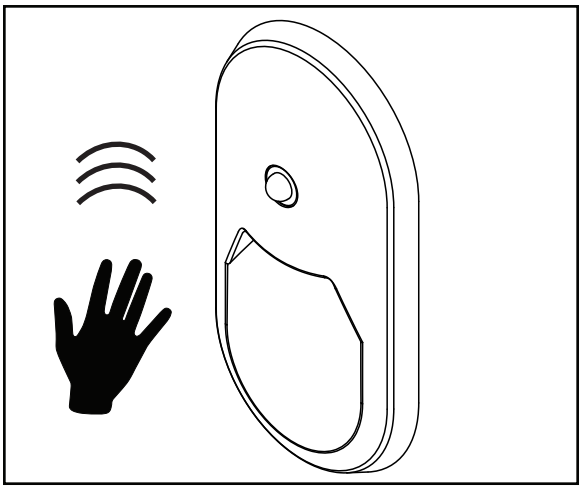
7.0 SENSOR CONTROLS

Photocell Sensor



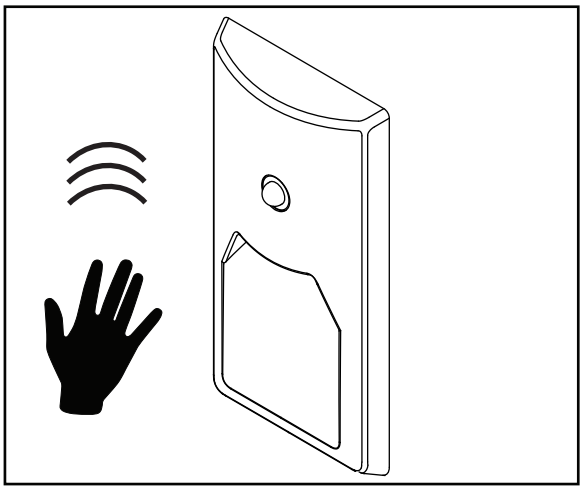
Illuminates nightlight when room is dark.

Occupancy Sensor



Illuminates nightlight when motion is detected. If no motion is detected for 30 seconds, nightlight turns off.

Combined Photocell/Occupancy Sensor



Illuminates nightlight only when room is dark AND motion is detected. If no motion is detected for 30 seconds, nightlight turns off.

7.0 SENSOR CONTROLS (CONTINUED)

Commissioning Photocell Sensor

ALL ADJUSTMENTS MUST BE MADE WITH THE PHOTOCELL UNCOVERED AND EXPOSED TO AMBIENT ROOM LIGHTING CONDITIONS. THE PHOTOCELL SHOULD OPERATE DOWN TO 2 FOOTCANDLES

1. Remove faceplate from back box assembly.

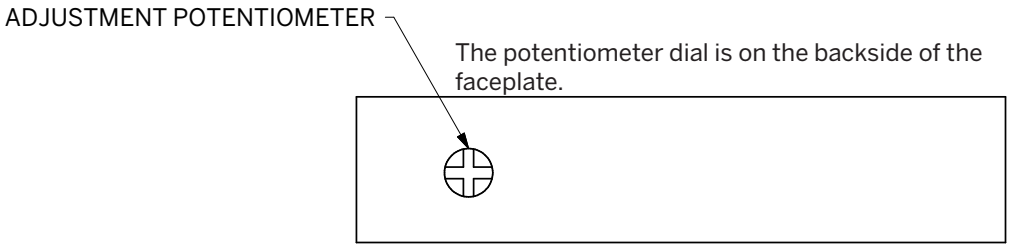
2. Energize the circuit.

3. Slowly adjust the potentiometer within range clockwise to max. Overturning potentiometer can damage the unit. The light should be off.

4. Slowly turn the potentiometer dial counter clockwise towards the min until the light turns on.

5. Slowly turn the potentiometer clockwise towards max until the light turns off.

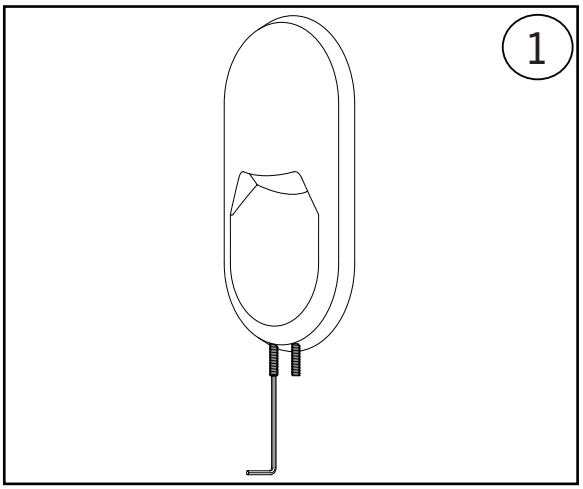
6. When you place your hand over the light sensor the light should turn on. When you remove your hand the light should turn off.



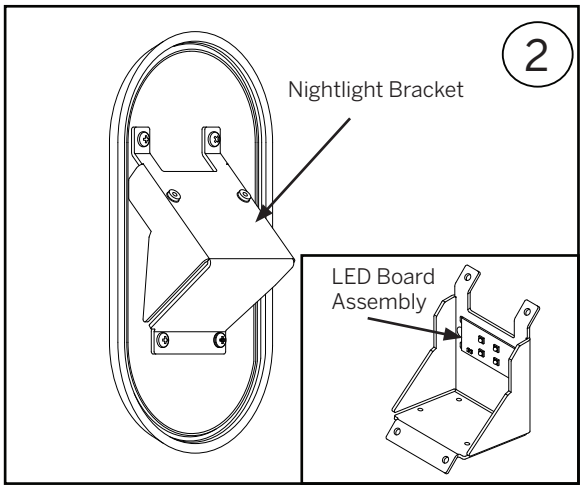
8.0 SERVICING

Nightlight Board Replacement

TURN OFF ALL POWER BEFORE PERFORMING SERVICE!!!



Remove set screws x2 and detach faceplate from backer plate. Disconnect any wire connections.



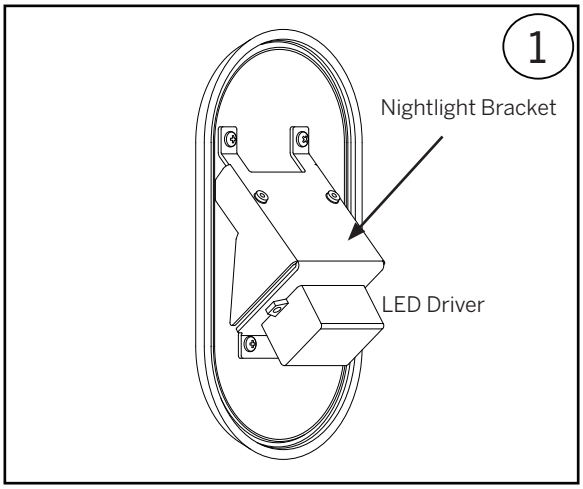
Remove supplied M3 x 4mm Phillips-head screws x4 to disconnect LED bracket from faceplate. Swap out nightlight bracket and LED board assembly. Repeat steps in reverse order to reinstall nightlight board.

8.0 SERVICING (Continued)

Driver Replacement

TURN OFF ALL POWER BEFORE PERFORMING SERVICE!!!

Standard Driver

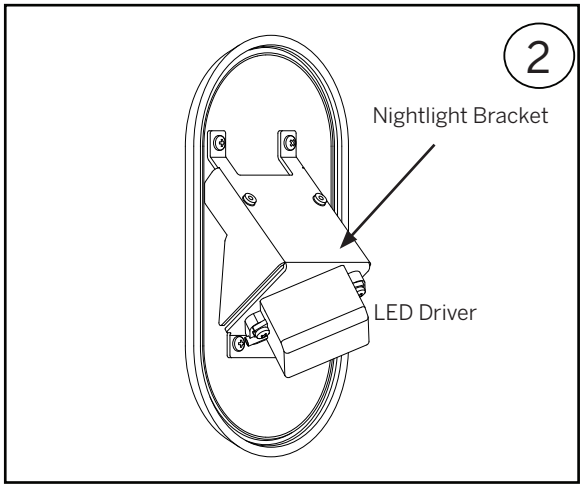


A. Remove faceplate and disconnect wire connections as described in previous service steps.

B. Remove driver from nightlight bracket by prying off supplied double-sided tape.

C. Swap driver and remove tape backing for reinstallation.

Photocell/Occupancy Combination Driver

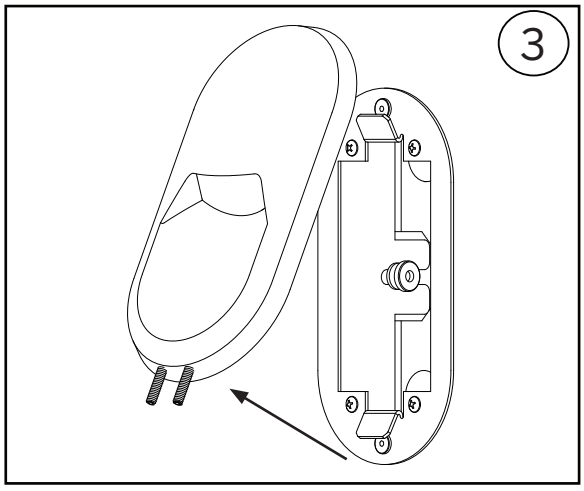


A. Remove faceplate and disconnect wire connections as described in previous service steps.

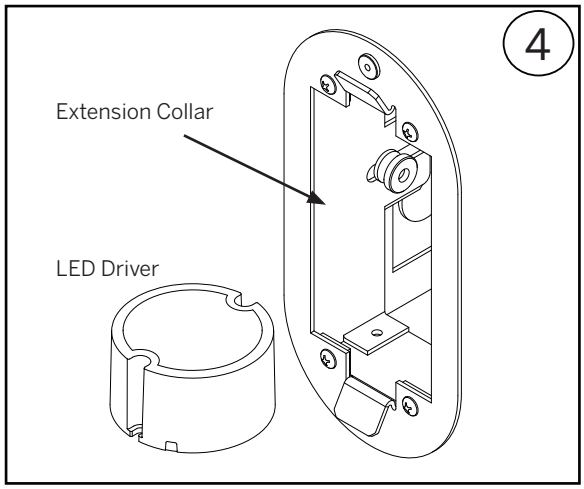
B. Remove driver from nightlight bracket by prying off supplied double-sided tape.

C. Swap driver and remove tape backing for reinstallation.

0-10V Dimming Driver



Remove faceplate and disconnect wire connections as described in previous service steps.

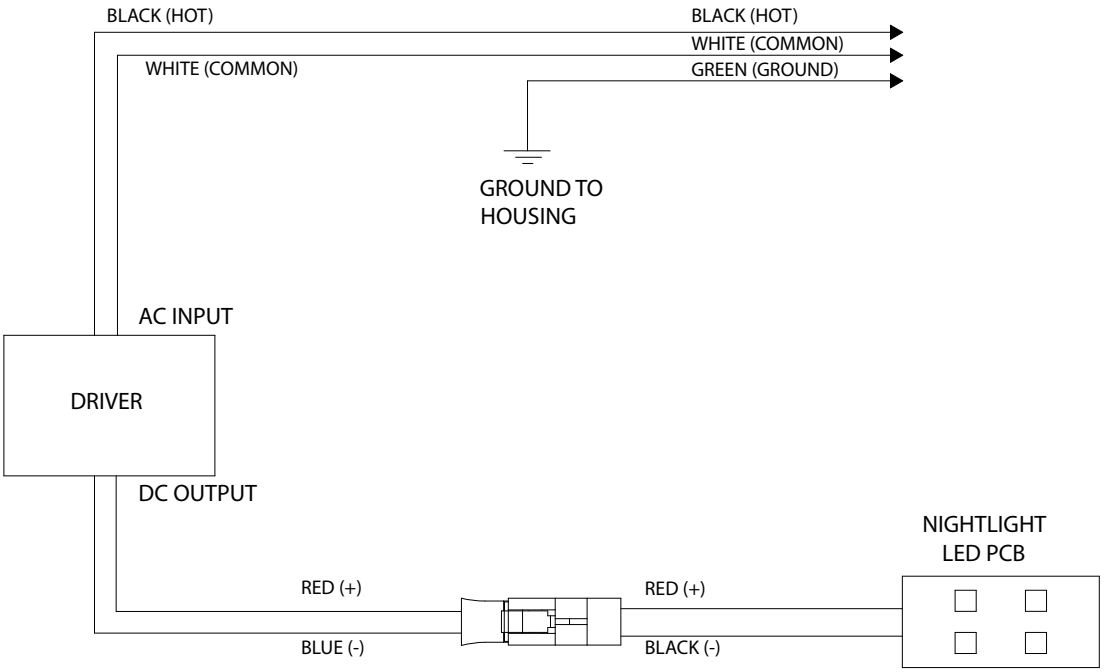


A. Remove driver from housing through extension collar by prying off supplied double-sided tape.

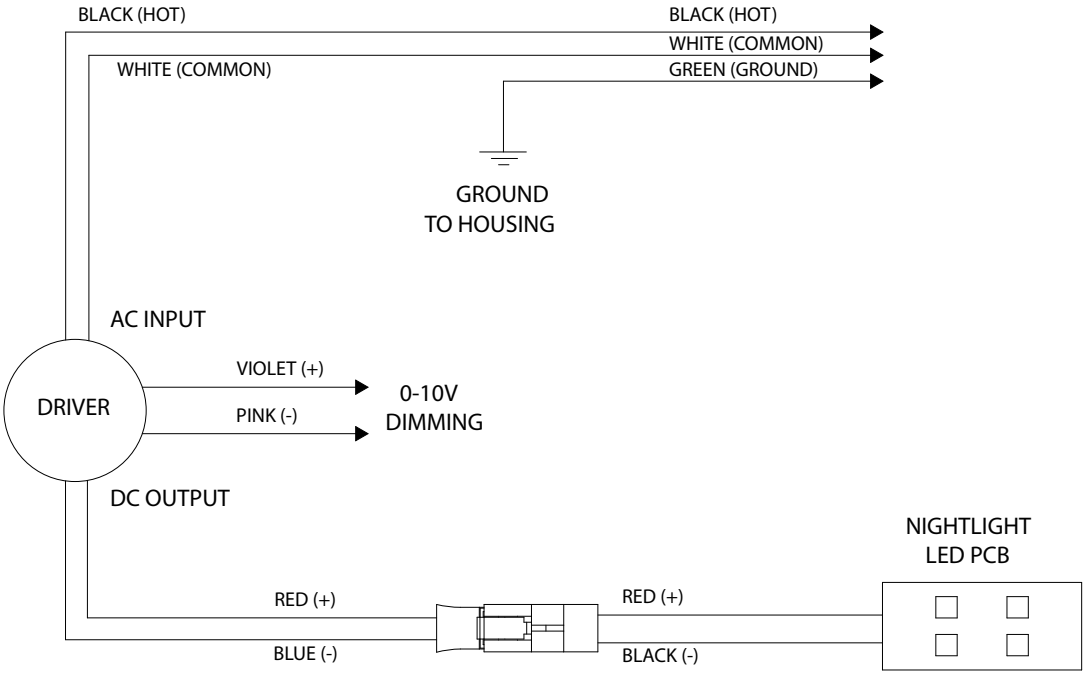
B. Swap driver and remove tape backing for reinstallation.

9.0 WIRING EXAMPLES

Non-Dimming Wiring

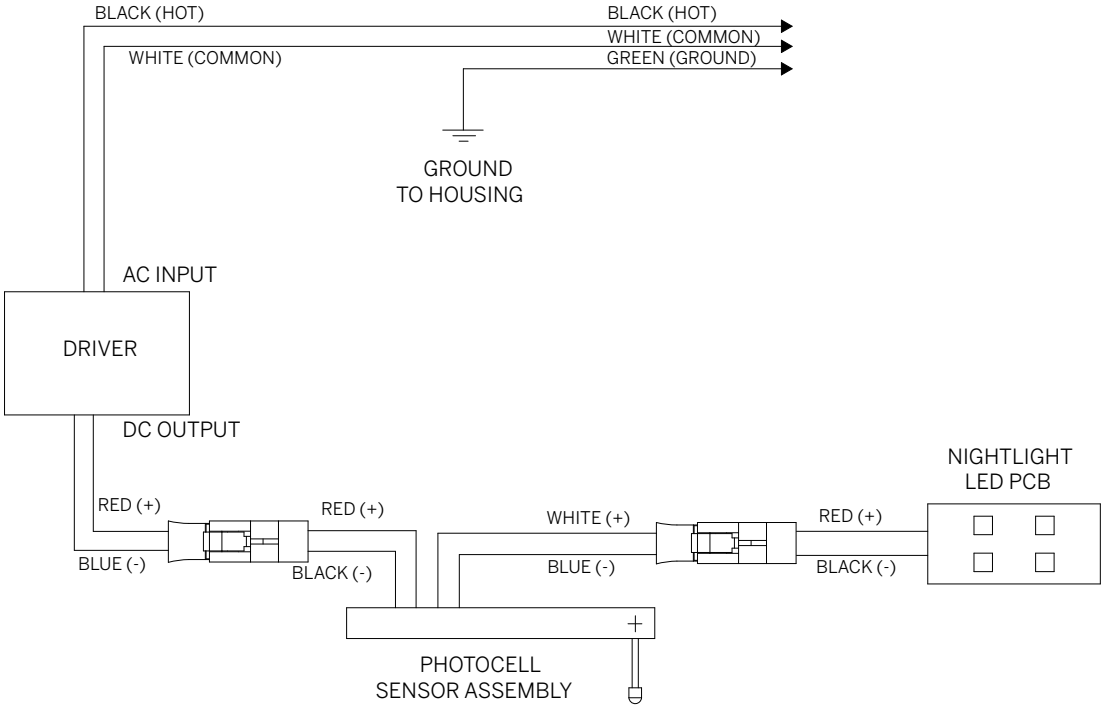


Dimming Wiring

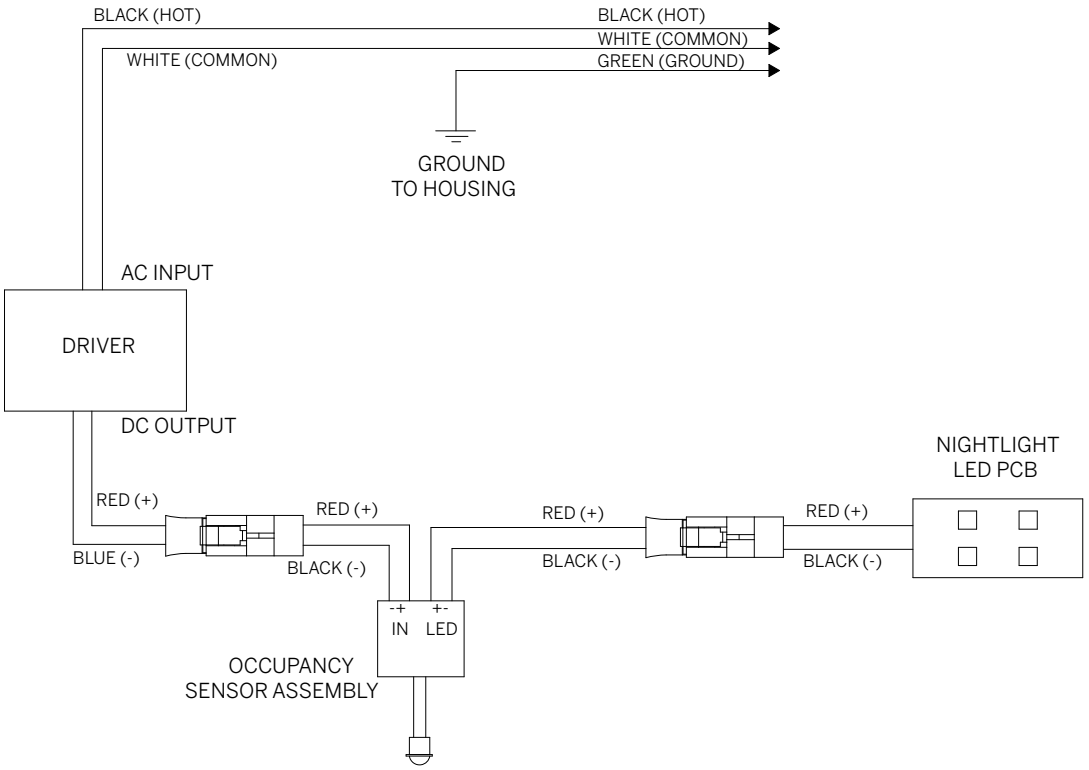


9.0 WIRING EXAMPLES (Continued)

Photocell Wiring

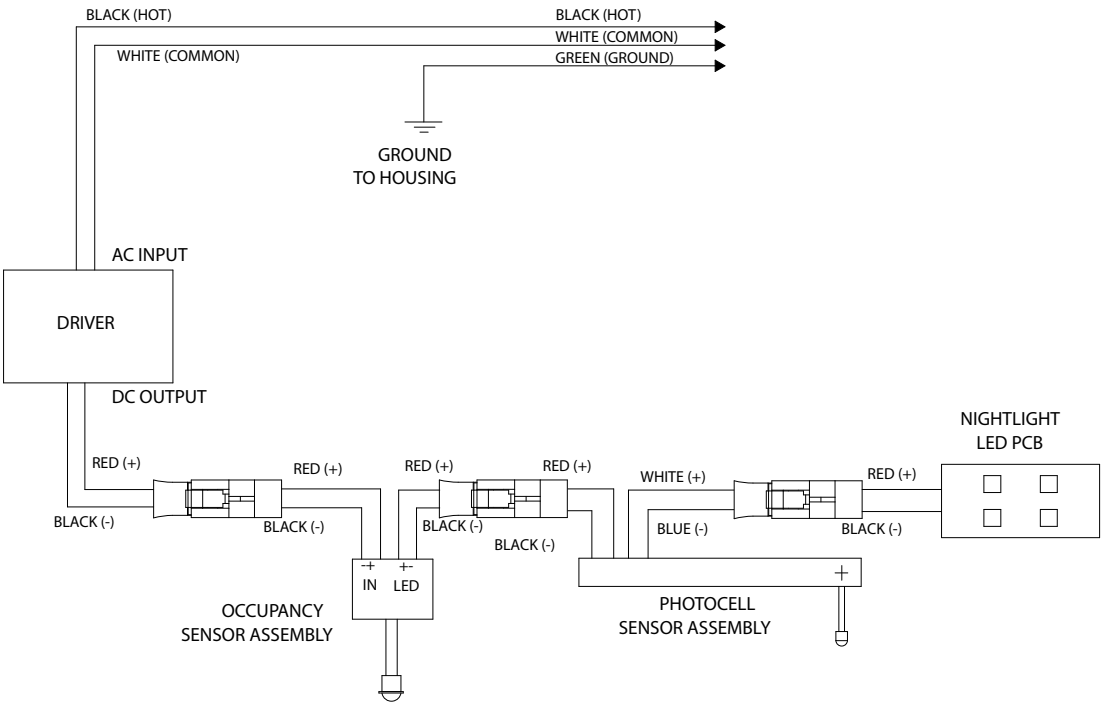


Occupancy Wiring



9.0 WIRING EXAMPLES (Continued)

Photocell & Occupancy Wiring



10.0 USER NOTES