

CYLINDER SURFACE MOUNT

CYLINDER LED LUMINAIRE CYX / CPX / CDX SERIES

INSTALLATION

Before beginning any CYLINDER installation, disconnect electrical power at main switch or circuit breaker.

A. CAUTION

To reduce the risk of fire, electrical shock, and potential damage to these fixtures when electrical power is supplied, DO NOT CONNECT the fixtures on branch circuits serving the following:

- Motors
- Power tools
- Extension cords
- Appliances or similar electronics

Fixtures to be mounted in conditions where ambient temperatures do not exceed 40°C.

Fixtures must be installed on phase-balanced AC circuits, protected against transient power surges or spikes.

B. SAFETY INSTRUCTIONS

1. Read installation instructions completely before attempting installation.
2. Failure to follow instructions may result in improper installation and void warranty.
3. Contact Lucifer Lighting Company with any questions or concerns before beginning any installation.
4. Ensure qualified electrician will perform all electrical procedures.
5. Disconnect electrical power circuit before attempting to install Cylinder, or if adding to or changing configuration of Cylinder assembly.
6. CAUTION: When fixture is on for long periods the Cylinder surface will be hot. Take care when making adjustments.

This product must be installed in accordance with applicable electrical and installation codes by a person familiar with the construction and operation of the product and the hazards involved. "CAUTION- RISK OF FIRE"

C. DESCRIPTION

Surface mounted Cylinder with dimmable LED module and optional integral driver. Adjustable Cylinders feature 90° tilt and 365° lockable rotation during mounting. Pendant Cylinders feature field-cuttable cable (section J), and dropkits feature field-cuttable stem. (section E).

D. MOUNTING

Adjustable Cylinders may be wall mounted in either Wet (down only) or Dry / Damp locations. Pendant and Stem /Drop Kit Cylinders accommodate flat or sloped ceiling conditions, but may only be installed in dry/damp locations. Adjustable Wallwash CYX-AW: Recommended spacing is 36" (914mm) on center with 36" (914mm) setback from wall plane with 30° tilt. Wallwash Unibody CYX-WW: Recommended spacing is 48" (1213mm) on center with 48" (914mm) setback from wall plane.

CY0X/1X/2X/3X-JBMP:

Specified to mount flush with minimalist transition to standard j-box installed behind substrate (section D.1).

CY0X/1X/2X/3X-SMK:

Includes concealer plate to conceal mounting hardware between fixture and j-box for existing installations (section D.2).

CY1X/2X/3X-CMJB:

Lucifer designed ceiling mount j-box for 1/2" and 3/4" direct conduit feed. Provides minimalist transition from fixture to j-box (section D.3). Dry/Damp (IP54) only.

CY1X/2X/3X-EXMP:

Specified for international applications in which j-boxes are not required, low voltage use only (section D.4).

D.1 CY0X/1X/2X/3X-JBMP

NOTE: JBMP (A) must be installed prior to substrate.

PARTS IDENTIFICATION

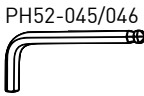
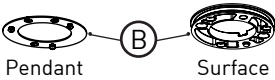
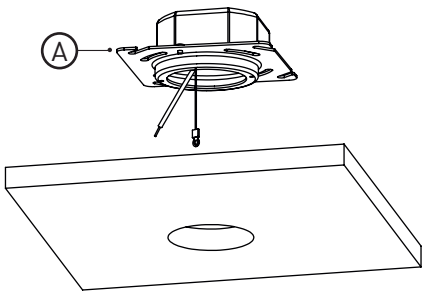
Part ID	Description	Qty.
A	J box mounting plate	1
B	Mounting adaptor (pendant)	1
B	Mounting adaptor (surface)	1

Mounting hardware to ship with every fixture:

- #5-32x0.5" FHCS Phillips Drive (PH01-102) for CMJB's.
- #6-32x0.75" FHCS Phillips Drive (PH01-128) for JBMP's/SMK's

Mounting Tool to ship with every 4 fixtures:

- CY1X ADJ/FB/WW: PH52-045
- CY3 ADJ/FB/WW: PH52-046



STEP 1

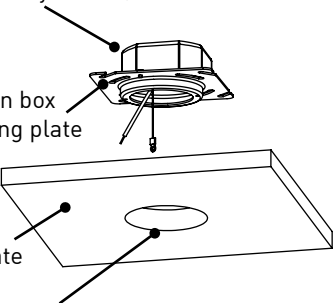
Universal junction box mounting plate attaches to standard 4" octagon or 4" square junction box before ceiling substrate is installed.

NOTE: Max 3/4" ceiling thickness substrate.

Junction box (supplied by others)

Junction box mounting plate

Ceiling substrate

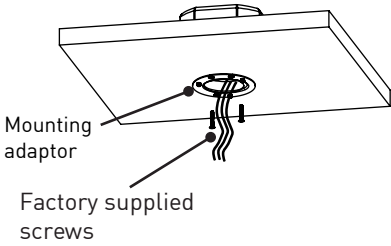


- CY0X: 1-1/2" (31mm) cutout
- CY1X: 2-1/8" (54mm) cutout
- CY2X: 2-3/4" (70mm) cutout
- CY3X: 2-3/4" (70mm) cutout

STEP 2

Attach applicable mounting adaptor with screws provided; ensuring it is seated firmly to the finished ceiling plane by tightening screws.

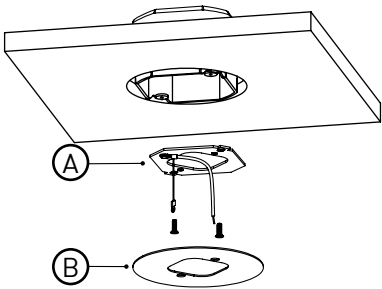
Please refer to section G, page 11 of this install guide for Cylinder wiring and mounting instructions.



D.2 CY0X/1X/2X/3X-SMK

PARTS IDENTIFICATION

Part ID	Description	Qty.
A	Mounting plate	1
B	Concealer plate	1
C	Mounting adaptor (pendant)	1
C	Mounting adaptor (surface)	1

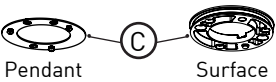


Mounting hardware to ship with every fixture:

- #5-32x0.5" FHCS Phillips Drive (PH01-102) for CMJB's.
- #6-32x0.75" FHCS Phillips Drive (PH01-128) for JBMP's/SMK's

Mounting Tool to ship with every 4 fixtures:

- CY1X ADJ/FB/WW: PH52-045
- CY3 ADJ/FB/WW: PH52-046



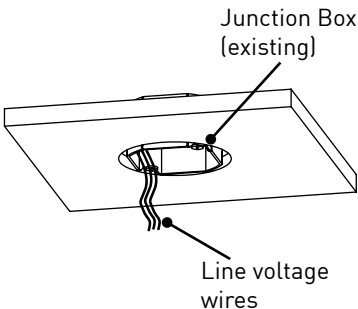
PH52-045/046



NOTE: Applicable mounting adaptor ships with cylinder assembly.

STEP 1

The SMK kit is specified for mounting to either standard 3" octagon or standard 4" octagon junction boxes. Remove existing fixture and mounting hardware, ensuring the ceiling area is level and free from debris.

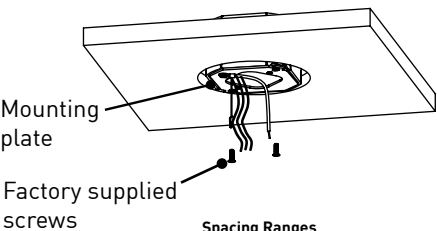


STEP 2

Attach mounting plate to junction box with screws supplied, routing safety lanyard, and line/ mains supply and control wires through opening.

NOTE: The mounting plate must not extend below the finished ceiling plane.

NOTE: Thicker ceiling substrates may require longer screws. Use 8-32 machine screws with an 82° countersink angle.



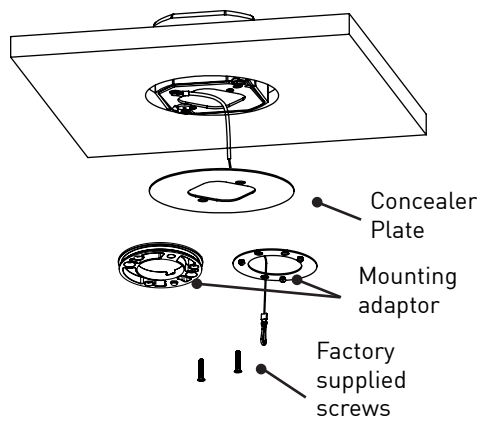
Spacing Ranges
SMK-3/0: 2.625" - 2.85"
SMK-4/0: 3.25" - 3.50"

Customer-supplied box screwhole spacing must range from 3.25" to 3.50" to accommodate mounting plate

STEP 3

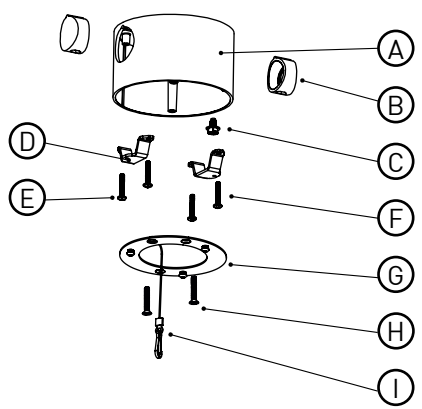
Attach concealer plate and applicable mounting adaptor with provided screws, ensuring the plates and adaptor seat firmly and flush to the finished ceiling plane by tightening screws as required. Countersinking/ deviation will result in poor rotation functionality.

Please refer to section G of this install guide for Cylinder wiring and mounting instructions.



D.3 CY1X/2X/3X-CMJB

PARTS IDENTIFICATION		
Part ID	Description	Qty.
A	CY0/1/2/3-CMJB-	1
B	Blank-off plug	2
C	Ground screw	1
D	Clamp	2
E	Clamp screws	4
F	Conduit locking screw	2
G	Mounting plate	1
H	Mounting plate screws	2
I	Safety lanyard	1

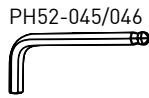


Mounting hardware to ship with every fixture:

- #5-32x0.5" FHCS Phillips Drive (PH01-102) for CMJB's.
- #6-32x0.75" FHCS Phillips Drive (PH01-128) for JBMP's/SMK's

Mounting Tool to ship with every 4 fixtures:

- CY1X ADJ/FB/WW: PH52-045
- CY3 ADJ/FB/WW: PH52-046

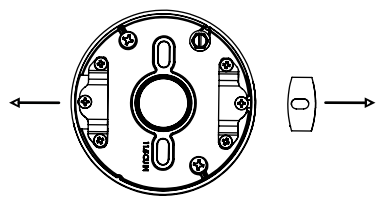


NOTE: Mounting Plate "G" used in place of mounting plates shipped with pendant fixtures.

STEP 1A - 3/4" CONDUIT

For 3/4" conduit, remove mounting plate, loosen clamps and conduit locking screw, discard applicable blank-off plug(s).

NOTE: Maximum 3/4" conduit throat diameter is 0.819" (20.8 mm), per UL code.

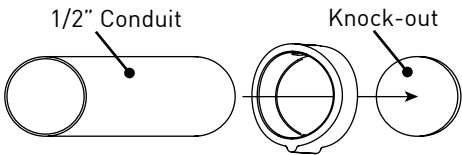
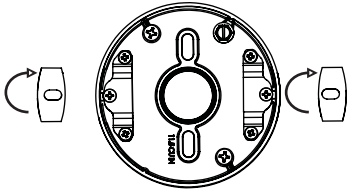


STEP 1B - 1/2" CONDUIT

Scan QR code and reference knock-out removal video. Loosen clamp and locking screw to remove plug(s). On a protected concrete surface, remove knock-out from plug using 1/2" conduit and reinstall in reverse orientation.

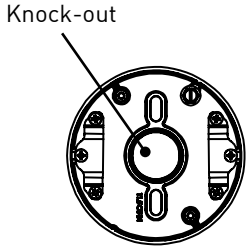
NOTE: Maximum 1/2" conduit throat diameter is 0.622" (15.8 mm), per UL code.

Knock-out Removal



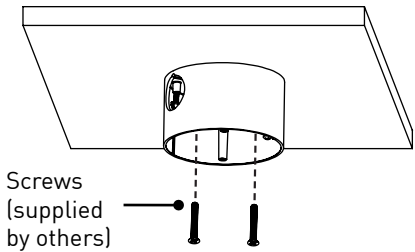
STEP 1C - TOP FEED

Remove the mounting plate, place CMJB on a soft surface and remove top knock out.



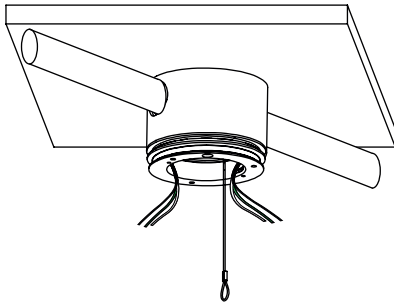
STEP 2

Ensure the ceiling area is level and free from debris, secure j-box to ceiling.



STEP 3

Run conduit and / or wiring to the CMJB. On applications using conduit tighten clamp screws and conduit locking screw. Install mounting plate or mounting adaptor as applies.



Please refer to section G of this install guide for Cylinder wiring and mounting instructions.

D.4 CY0X/1X/2X/3X-EXMP

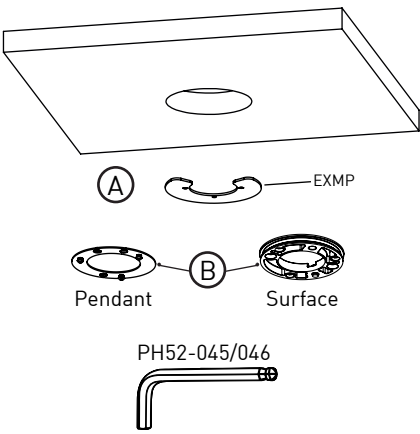
NOTE: JBMP (A) must be installed prior to substrate.

PARTS IDENTIFICATION		
Part ID	Description	Qty.
A	Export mounting plate	1
B	Mounting adaptor (pendant)	1
B	Mounting adaptor (surface)	1

- Mounting hardware to ship with every fixture:**
- #6-32x0.75" FHCS Phillips Drive (PH01-128)

Mounting Tool to ship with every 4 fixtures:

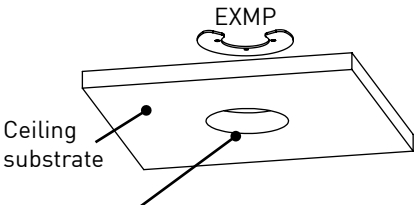
- CY1X ADJ/FB/WW: PH52-045
- CY3 ADJ/FB/WW: PH52-046



STEP 1

Export Mounting Plate is inserted above ceiling through appropriate cutout.

NOTE: Max 3/4" ceiling thickness substrate.

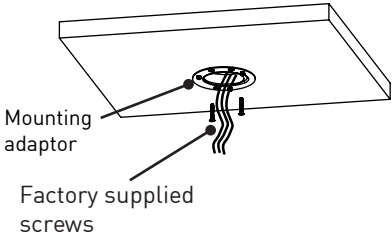


- CY0X: 1-1/2" (31mm) cutout
- CY1X: 2-1/8" (54mm) cutout
- CY2X: 2-3/4" (70mm) cutout
- CY3X: 2-3/4" (70mm) cutout

STEP 2

Attach applicable mounting adaptor with screws provided; ensuring it is seated firmly to the finished ceiling plane by tightening screws.

Please refer to section F of this install guide for Cylinder wiring and mounting instructions.



E. CY0X/1X/2X/3X-DK (DROP KIT)

For suspending cylinder at varying heights and on sloped ceilings up to 45°. Must be installed in conjunction with the JBMP (Section D.1), SMK (Section D.2) or CMJB (Section D.3).

NOTE: The CY0X/1X/2X/3X-JBMP must be installed prior to substrate.

PARTS IDENTIFICATION

Part ID	Description	Qty.
A	Mounting plate	1
B	Mounting plate screws	2
C	Pressure plate	1
D	Ball swivel	1
E	Magnetic concealer plate	1
F	Stem	1-3
G	Lower canopy	1
H	Safety lanyard	1
I	Retaining collar	1
J	Set Screws	3
K	Threaded Nipple	1-2
L	Clamping bracket	1
M	Clamping bracket screw	1

Mounting hardware to ship with every fixture:

- #5-32x0.5" FHCS Phillips Drive (PH01-102) for CMJB's.
- #6-32x0.75" FHCS Phillips Drive (PH01-128) for JBMP's/SMK's

Mounting Tool to ship with every 4 fixtures:

- CY1X ADJ/FB/WW: PH52-045
- CY3 ADJ/FB/WW: PH52-046

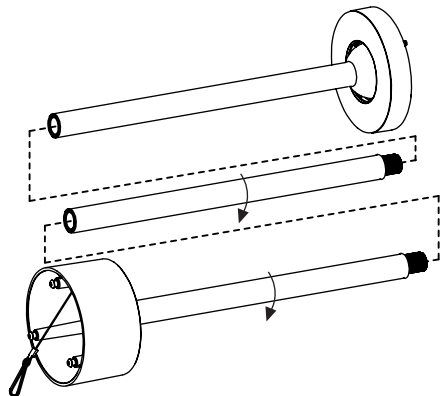
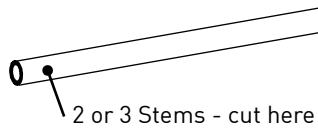
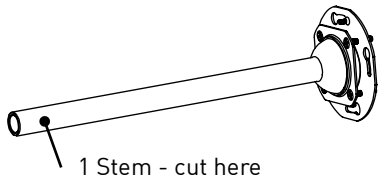
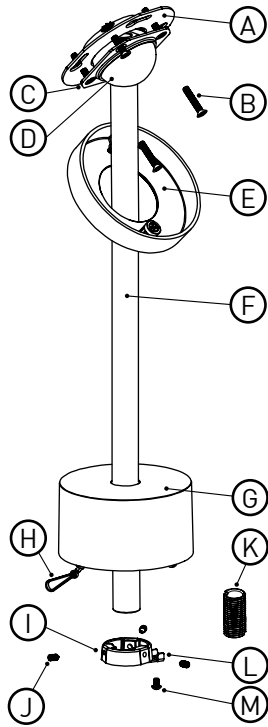
STEP 1

Cut stem to length as required at 90° angle from end where the lower canopy will be connected.

Installer Tip: Stem is recessed into lower canopy 3/8", add 3/8" to total length prior to cutting stem.

STEP 2

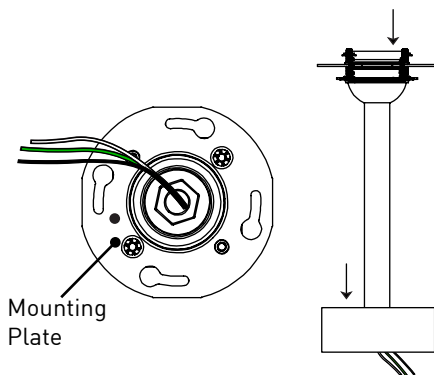
Connect stems as required by threading stems together.



STEP 3

Feed line and control wiring (if required) through stem(s) from the mounting plate to the lower canopy; wiring supplied by others. See wiring requirements in Section Q.

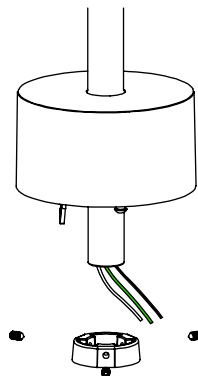
Installer Tip: Recommend using solid 12 AWG THHN and 18/2 for line voltage and control wiring. Wrap wiring tight with electrical tape and push through stems.



STEP 4

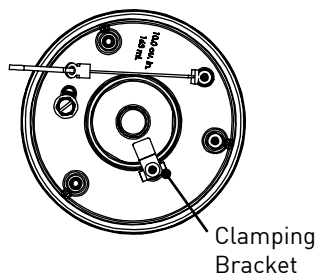
Ensure magnetic concealer plate is in place and feed lower canopy onto stem, install retaining collar on end of stem and secure with three factory supplied set screws. Ensure bushing is secured to stem.

WARNING: Failure to ensure set screws are adequately tightened may result in failure of bushing.



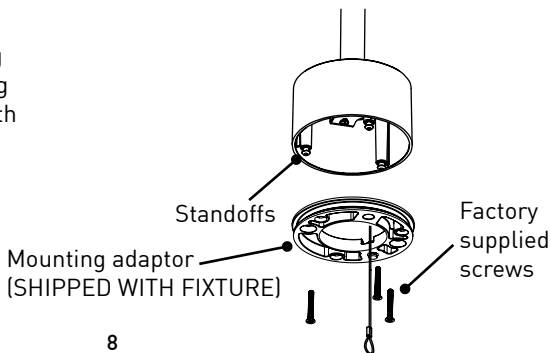
STEP 5

Install clamping bracket to lower canopy by starting supplied screw, rotate bracket over retaining collar and tighten screw.



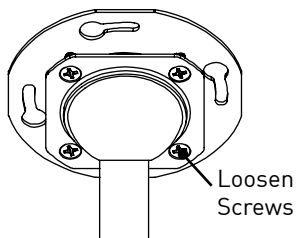
STEP 6

Remove the three 5/64" mounting standoffs and install the mounting adaptor (**shipped with fixture**) with three supplied 5/64" screws.



STEP 7

Loosen pressure plate screws slightly prior to installation.

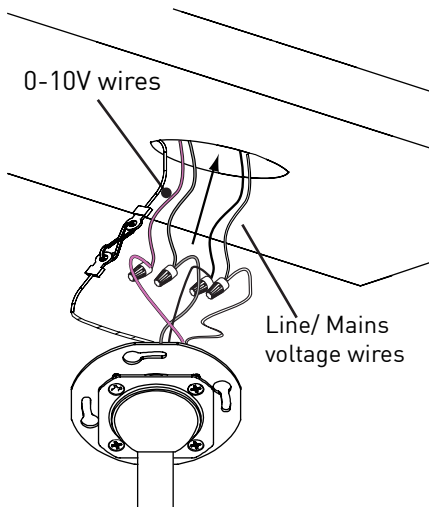


STEP 8

Attach safety lanyard and wiring from line / mains source as indicated with suitable wire-nuts or similar connectors. For 0-10V dimming option, use gray and purple wires as shown. Push connections, excess wiring, and lanyard into junction box.

NOTE: CMJB application not shown.

Black Wire	= Line
White	= Neutral
Green	= Ground
Purple	= Dim +
Gray	= Dim -

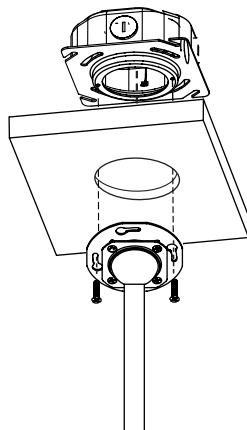


STEP 9

Attach drop kit mounting plate to applicable mounting option using supplied screws.

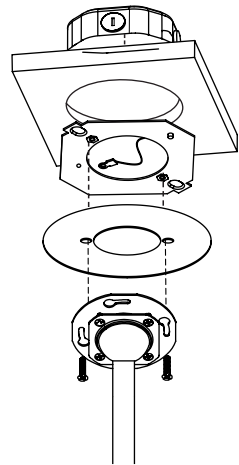
9.1 CY0X/1X/2X/3X-JBMP

Reference section D.1 for complete JBMP installation instructions. Position drop kit mounting plate below ceiling cutout and attach to J-box mounting plate with supplied screws.



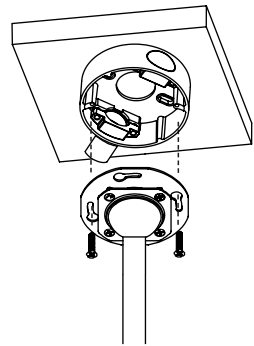
9.2 CY0X/1X/2X/3X-SMK

Reference section D.2 for complete SMK installation instructions. With SMK mounting plate installed, feed supplied screws through drop kit mounting plate and concealer plate and attach to SMK mounting plate.



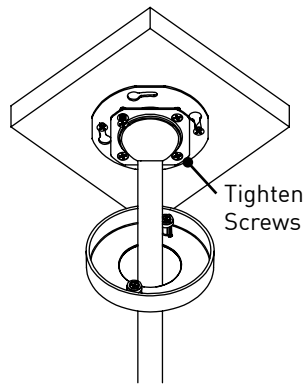
9.3 CY1X/2X/3X-CMJB

Reference section D.3 for complete CMJB installation instructions. Remove factory supplied mounting plate from CMJB and attach drop kit mounting plate with original screws.



STEP 10

With drop kit installed and stem positioned vertically, UNIFORMLY tighten pressure plate screws and raise magnetic concealer plate.



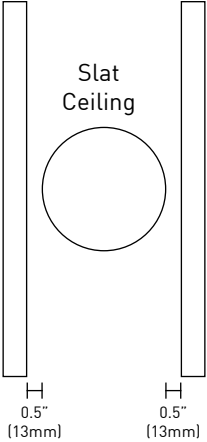
F.1 SETBACKS

All cylinder fixtures are intended to be surface mounted and require access to air exchange. The following installations are acceptable and will provide adequate air exchange given the minimum setbacks are met.

Mounting between slats:

Fixtures mounted between slats require minimum 0.5" (13mm) spacing between each slat and the fixture.

NOTE: Fixture must be able to be removed for servicing and all wiring joints must be serviceable from below the slats.

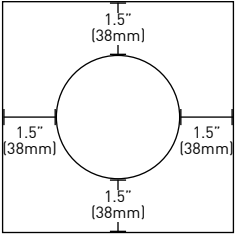


Mounting in recessed condition:

Fixtures mounted in recessed conditions require minimum 1.5" setback on all sides from any building structure.

NOTE: Fixture must be able to be removed for servicing and all wiring joints must be serviceable from below the structure.

Recessed Cylinder



F.2 SPACING

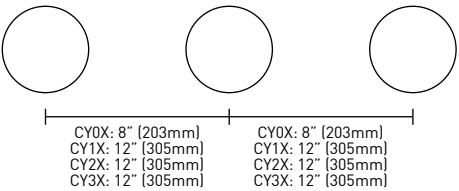
All cylinder spacing requirements are assuming cylinders are surface mounted and have access to air exchange. The following spacings are acceptable and will provide adequate air exchange given the minimum spacings are met.

CY0X: 8" (203mm) on-center spacing between fixtures.

CY1X/2X/3X: 12" (305mm) on-center spacing between fixtures.

NOTE: Spacings apply for slat ceilings/recessed cylinder installations, assuming setback requirements listed in Section F.1 are adhered to. Consult factory for applications that do not comply with Sections F.1 and F.2.

On Center Spacing Requirements



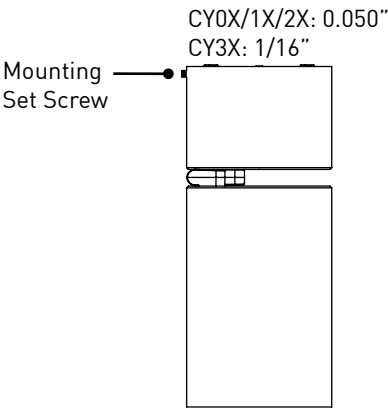
G. WIRING & MOUNTING

If using remote power supply, see Section K.

STEP 1

Back out hex set screw on canopy six full turns, ensuring it is not removed completely.

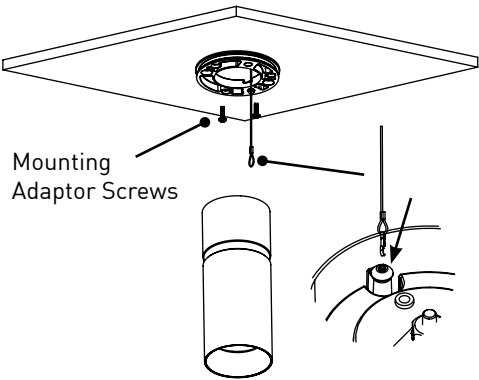
Installers Note: Using a Ball End Hex Key tool is recommended.



STEP 2

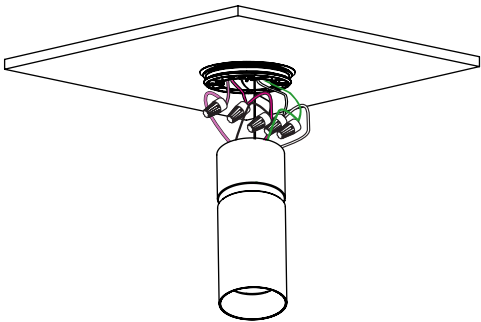
Install mounting adaptor using respective screws, then connect Cylinder to safety lanyard mounting screw.

WARNING: Failure to attach safety lanyard may result in an unsafe condition.



STEP 3A - UL1598 INSTALLATIONS

Attach wiring from line / mains source as indicated with suitable wire-nuts or similar connectors. For 0-10V dimming option, use purple and gray wires. Push connections, excess wiring, and lanyard into junction box.



INTEGRAL DRIVER WIRING

- Black = Line
- White = Neutral
- Green = Ground
- Purple = Dim +
- Pink = Dim -

**STEP 3B - UL2108
INSTALLATIONS**

Attach wiring from low voltage source as indicated with suitable wire-nuts or similar connectors.

Reference Section S for drive current and node compatibility information.

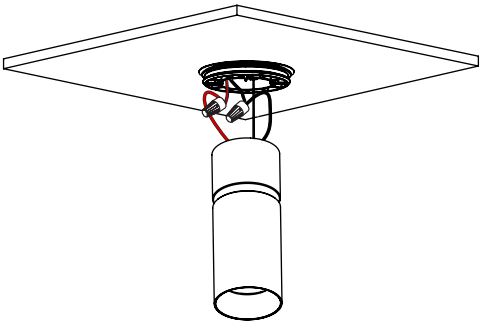
CY0X/1X/2X/3X AD/FB/WW

- (+) - Red (+)
- (-) - Black (-)

CP2X/CP3X/CP3XU

DOWNLIGHT UPLIGHT

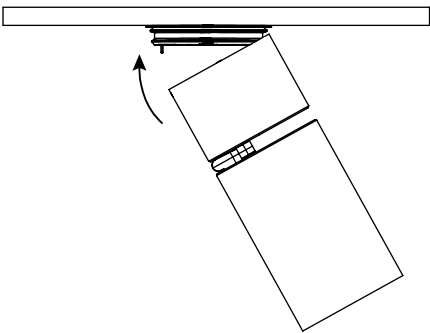
- | | |
|----------------|-----------------|
| (+) - Red (+) | (+) - White (+) |
| (-) - Blue (-) | (-) - Black (-) |



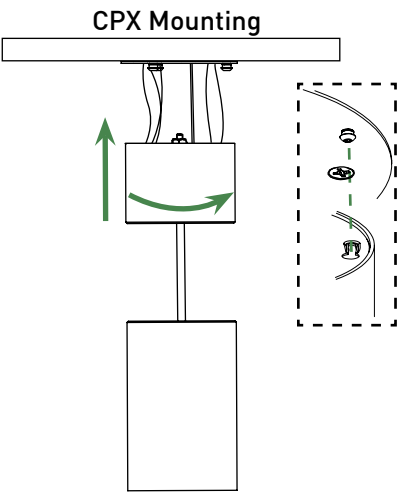
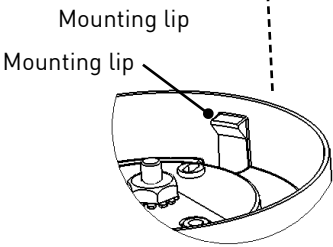
STEP 4

With fixture at slight angle, key mounting lip into the upper groove of the adaptor, being careful to not mar the ceiling. With lip engaged, tilt the cylinder canopy up and flush with ceiling or CMJB.

NOTE: For CPX Fixtures, align three keyholes of Cylinder with standoffs of mounting adaptor plate, turning clockwise to fully secure.



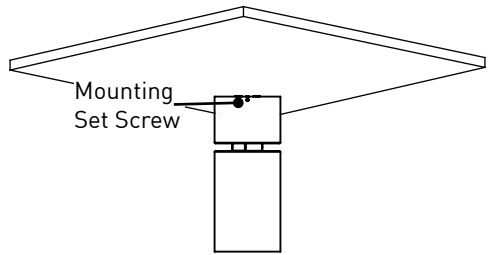
Upper Groove —●—
Lower Groove —●—



STEP 5

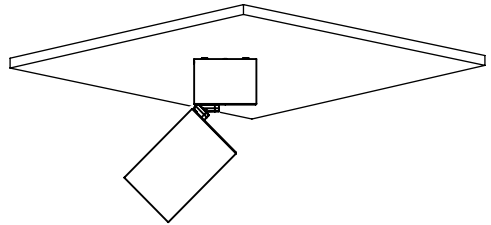
Tighten the mounting set screw until secured onto the lower groove of the mounting adaptor. For aiming, loosen mounting set screw slightly to facilitate rotation.

NOTE: Ball-end allen key is encouraged to avoid marring cylinder surface or stripping mounting set screw.



STEP 6

Rotate and aim adjustable fixtures to achieve desired effect. Lock mounting set screw when aiming is complete.

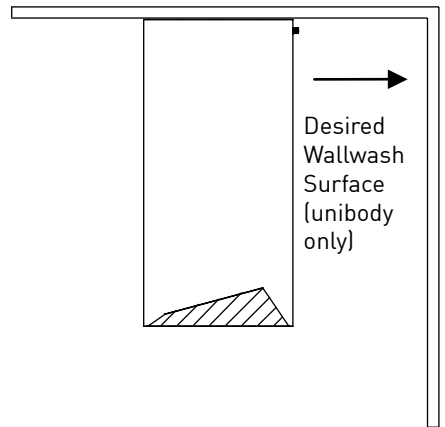


H. WALLWASH INSTALLATIONS

Factory recommends 36" x 36" setback and spacing for adjustable fixtures, and 48" x 48" wallwash unibody fixtures.

STEP 1

Install fixture with set screw facing desired wallwash surface (unibody only).



I. WET LOCATION INSTALLATIONS (IP54 & IP55)

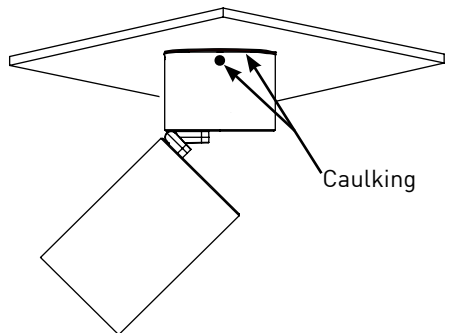
Do not apply caulking to fixture until aiming is completed.

STEP 1

With fixture aiming completed, apply a fillet seal around the fixture canopy mounting surface.

STEP 2

Apply caulk to the set screw.

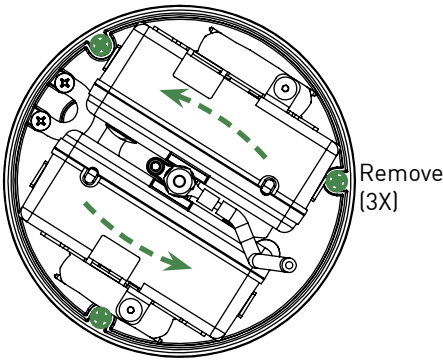


J. PENDANT CABLE ADJUSTMENT

STEP 1

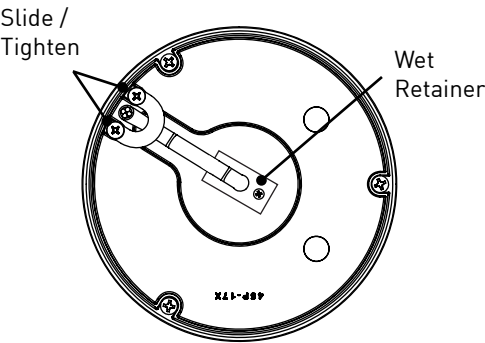
Remove mounting plate screws. Disconnect quick connectors from pendant side and rotate assembly counter clockwise to remove.

NOTE: Up-Down pendant features two pairs of low-voltage wiring feeding into pendant cable.



STEP 2

Loosen cable retainer screws and slide retainer off of cable. Remove wet location retainer if applicable, leaving it on the cable.



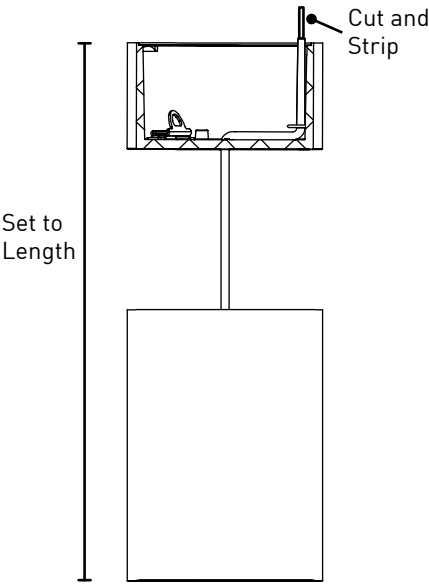
STEP 3

Set cable to desired length, positioning cable in canopy as shown.

Cut cable 6" from base of inner canopy. Strip 4" back after cutting, leaving excess wiring to make wiring connections.

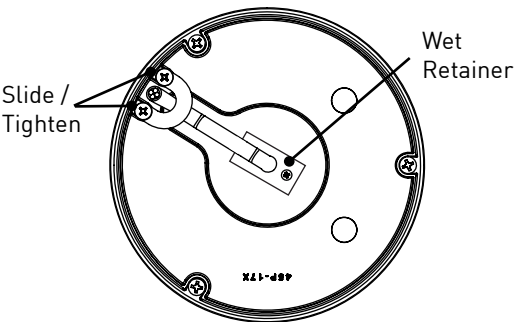
STEP 3 (REMOTE DRIVER ONLY)

Cut cable 6" from base of inner canopy. Strip 4" back after cutting, leaving excess wiring to make wiring



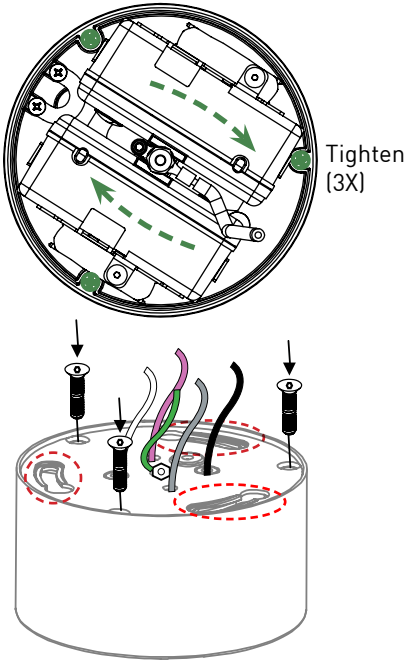
STEP 5

Reinstall wet location retainer as applies and slide cable retainer over cable.



STEP 6

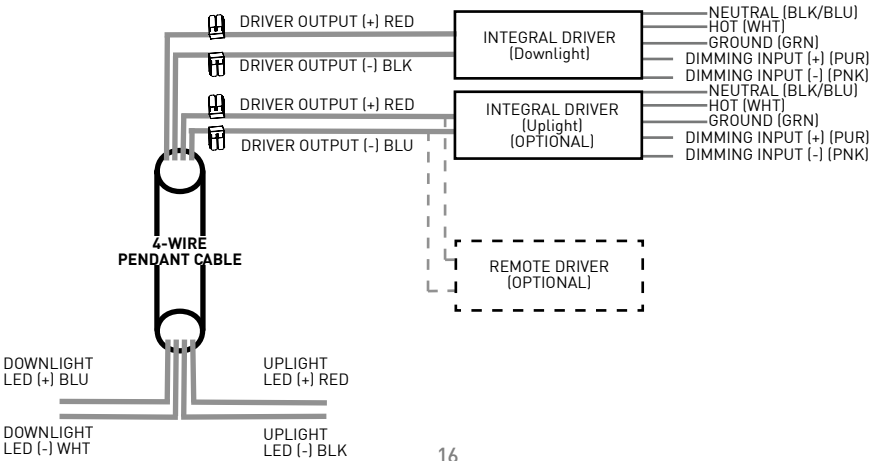
Reinstall driver assembly if applicable, by turning clockwise onto screws. Reattach low voltage conductors, referring to the chart below:



NOTE:

Ensure all wires are clear of key slots and properly seated under mounting plate during reinstallation. Failure to do so can result in driver malfunction.

WIRING DIAGRAM



K. REMOTE POWER SUPPLY -
UL1598 INSTALLATIONS ONLY

Determine preferred mounting location, verifying that fixture falls within maximum allowed wiring distance (Fig. 1).

Run adequately sized two-pair wire between remote driver and housing, following installation guidelines for terminating as needed.

Note: Secondary wiring is polarized (+/-) and must be terminated correctly at both ends for proper operation. It is recommended to use Red (+) and Black (-) wires to avoid confusion. No ground wire necessary on secondary side.

Ensure proper polarity is observed as reversed polarity may damage the unit and may void the warranty.

Access splice compartment by removing retaining screws, then tilting cover slightly back and away from base (Fig.2).

Mount power supply back plate assembly to suitable substrate using customer-supplied screws (Fig.3).

Insert line voltage wiring/conduit into line side of splice compartment and secondary voltage wiring/conduit into secondary side of splice compartment, utilizing appropriate strain relief or connector.

Note: Consult wiring diagrams on page 22-24 for applicable driver type.

Join structured building wires to corresponding driver wires with suitable customer-supplied wire connecting device.

Push all wires and wire connections into splice compartment and reinstall splice compartment cover by aligning tab and slot, ensuring that no wires are pinched by cover. Install retaining screws (Fig.3).

Important: Ensure foam aperture insert is in place prior to commencing ceiling installation. Failure to comply may result in damage to the LED or optic.

Standard Drivers: "URA" & "URE"					
AWG Value	20	18	16	14	
Distance (m)	12	20	32	50	
Distance (ft)	40	66	105	164	
Lutron Drivers: "L2" & "LH"					
AWG Value	18	16	14	12	
Distance (m)	4.5	7.5	12	18	
Distance (ft)	15	25	40	60	
Philips Drivers: "TR", "AN", & "LN"					
AWG Value	20	18	16	14	12
Distance (m)	14	22	34	55	87
Distance (ft)	45	71	113	180	285
eldoLED Drivers: "ED", "LD", "LA", "EA"					
AWG Value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	46	59	72	92	118

Fig. 1

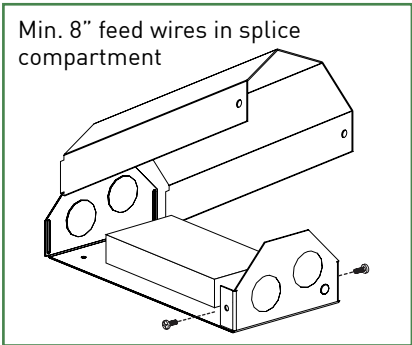


Fig.2

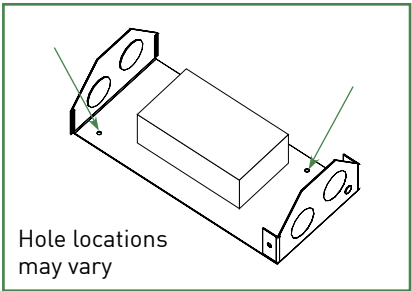


Fig.3

L. EFFECTS DEVICE REPLACEMENT

STEP 1

Grasp inner lip of baffle assembly and carefully pull down to remove. Wet rated fixtures will require the use of the supplied suction cup tool.

STEP 2

To access effects device, pinch spring tabs and remove.

Note: Fixture can accommodate up to two effects devices.

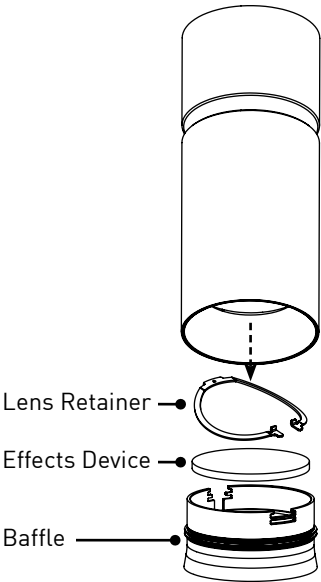
STEP 3

With effects device(s) installed, reinstall lens retainer to baffle base in opposite order of removal.

STEP 4

Carefully reinstall baffle assembly by pushing up into fixture.

Note: For wet location fixtures (IP54 or IP55), a new baffle subassembly must be ordered.



M. OPTIC REPLACEMENT

STEP 1

Grasp inner lip of baffle and carefully pull down to remove. Wet rated fixtures will require the use of the supplied suction cup tool.

STEP 2

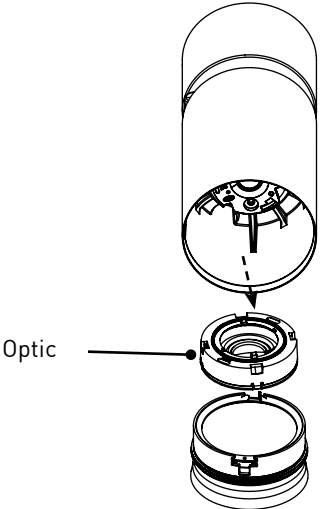
Turn optic assembly counter clockwise and pull down to remove from fixture.

STEP 3

Install optic assembly by aligning locking tabs of assembly with LED base, turning clockwise.

STEP 4

Carefully reinstall baffle assembly by pushing up into fixture.



CY0X ZOOMABLE OPTIC

Optic adjustment is accessed by removing fixture's baffle. Reach into aperture with fingers and rotate optic using the tabs highlighted to the desired beam spread; optic clicks at each increment

Full counter-clockwise

Position 1 - 24°

Position 2 - 30°

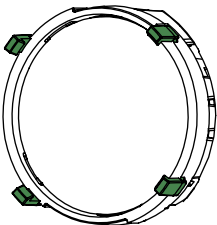
Position 3 - 36°

Position 4 - 42°

Position 5 - 48°

Full clockwise

CY0X ZOOMABLE OPTIC



N1. INTEGRAL DRIVER REPLACEMENT - CYX/CDX

STEP 1

Loosen 3/32" Allen screw and remove fixture from mounting adaptor.

STEP 2

Disconnect line/mains and control wiring from driver as applies.

STEP 3

Loosen and remove the screws on the driver retaining bracket and lanyard with a 1/16" Allen wrench. Remove fixture's lanyard. Loosen and remove the nut on the retaining bracket. Remove driver retaining bracket and then the driver from fixture canopy. Disconnect quick connectors below driver.

STEP 4

Reconnect connectors and install replacement driver. Secure retaining bracket with two screws.

Note: Connectors will be quick-connectors for adjustable fixtures, and WAGO for pendants.

STEP 5

Reconnect secondary voltage wiring to line/mains and control wiring to driver as applies. See diagram below.

Line / Mains and Control Voltage:

LINE / MAINS & CONTROL VOLTAGE

Black - Line
White - Neutral
Green - Ground
Purple - Dim +
Pink - Dim -

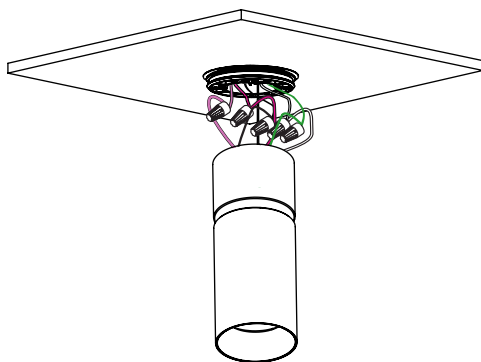
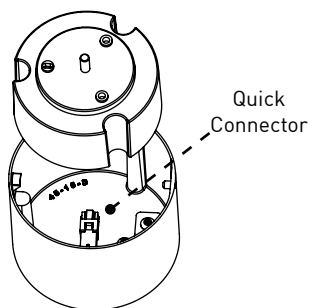
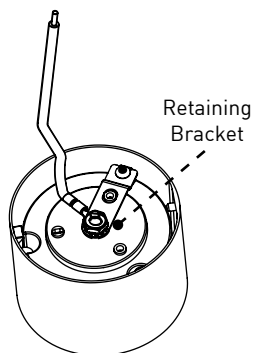
Secondary LED Voltage:

SECONDARY LED VOLTAGE

Red (+) - Red (+)
Blue (-) - Black (-)

STEP 6

Reference section G for fixture reinstallation.



N2. INTEGRAL DRIVER REPLACEMENT - CPX DOWN ONLY

The following instructions describe how to remove and replace the integral driver.

STEP 1

Remove 3 screws located on mounting plate of Cylinder canopy using 1/16" Allen key.

On Wallwash Unibody fixtures remove 2 screws located on mounting plate of Cylinder canopy using 1/16" Allen key.

STEP 2

Remove K-nut, green ground wire, and locking washer at center of mounting plate using standard wrench.

STEP 3

Remove mounting plate to expose integral driver.

STEP 4

Lift driver out of Cylinder canopy and disconnect plastic socket by pressing on locking tab and pulling apart.

STEP 5

Connect plastic socket of replacement driver and lower into Cylinder enclosure with red and white wires facing downward.

STEP 6

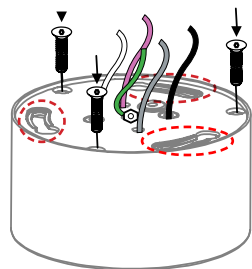
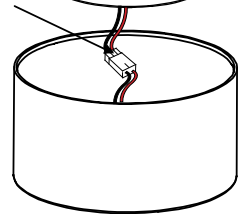
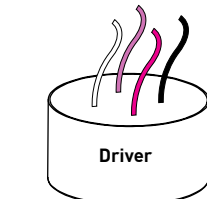
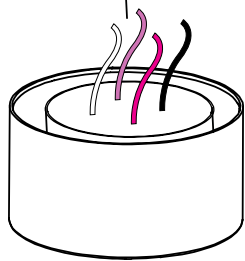
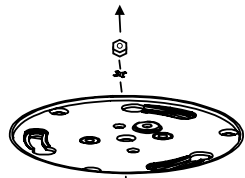
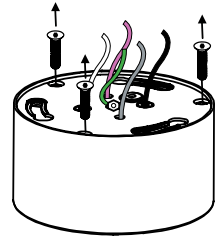
Replace mounting plate, feeding driver's black and white wires through larger mounting plate holes, and gray and purple wires through smaller mounting plate holes.

STEP 7

Reverse STEPS 1-2 to secure mounting plate and complete driver replacement.

NOTE:

Ensure all wires are clear of key slots and properly seated under mounting plate during reinstallation. Failure to do so can result in driver malfunction.

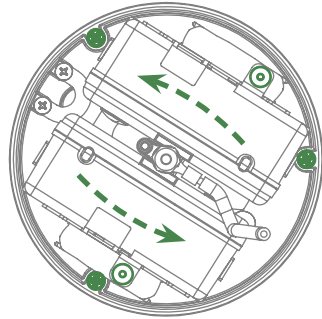


03. INTEGRAL DRIVER REPLACEMENT - CP3X UP/DOWN

The following instructions describe how to remove and replace the integral driver.

STEP 1

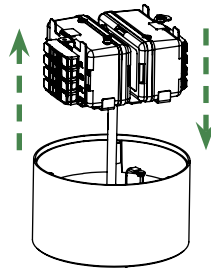
Remove mounting plate screws and driver assembly screws. Disconnect quick connectors from pendant side and rotate assembly counter clockwise to remove and pull out of canopy.



Note: Grabbing the hex-screw tabs and carefully squeezing inwards will assist in driver assembly removal.

STEP 2

Disconnect desired driver(s) from sled assembly, then gently remove driver(s). Insert replacement driver(s) into sled. Insert the driver wires into the respective slots marked on the bracket. Route driver wires through the mounting plate, then tuck away any excess driver wiring in between the drivers.



STEP 3

Secure mounting plate to the driver plate using the 2 allen-key screws. "U" and "D" engravings on mounting plate will align with respective sides of bracket to ensure proper orientation.

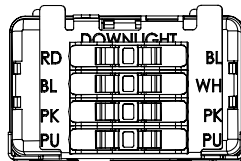
STEP 4

Keep wires neatly down the sides of the bracket. Align canopy screw holes and reinsert driver assembly.

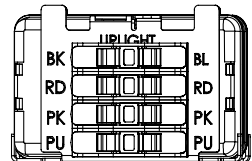
NOTE:

Ensure all wires are clear of key slots and properly seated under mounting plate during reinstallation. Failure to do so can result in driver malfunction.

DOWNLIGHT



UPLIGHT



P. LED REPLACEMENT

STEP 1

With baffle and optic removed, remove 1/16" Allen screws from LED holder.

STEP 2

Lift LED holder away from base and push LED out of holder.

STEP 3

Insert new LED into back of holder ensuring polarity is aligned, utilizing the spring adjacent to the positive end to retain the LED.

Red (+), Black (-).

IMPORTANT:

Ensure proper polarity is observed as reversed polarity may damage the unit. This will void warranty and fixture will not function.

IMPORTANT:

Take care not to touch / mar yellow LED surface.

STEP 4

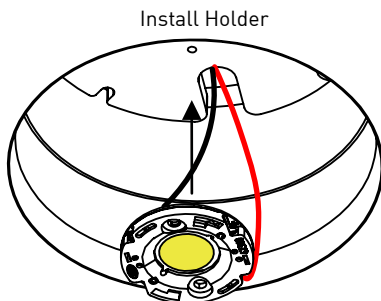
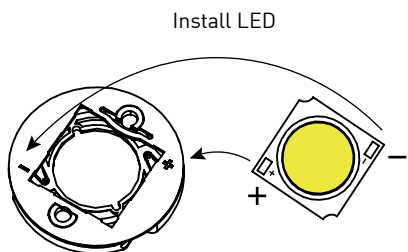
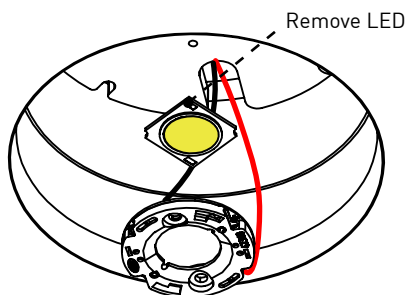
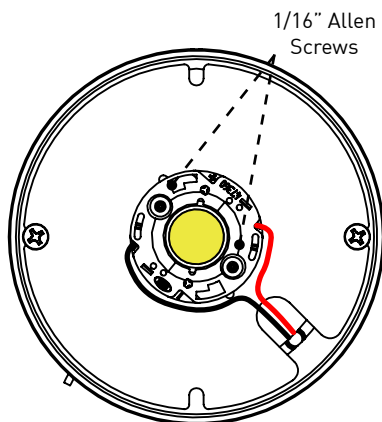
Place LED holder onto base and install 1/16" Allen screws. Tighten screws until resistance is felt and tighten additional 1/4 turn.

IMPORTANT:

Ensure LED holder screws are adequately tightened. Under or over tightening will void warranty.

STEP 5

Install optic and baffle.

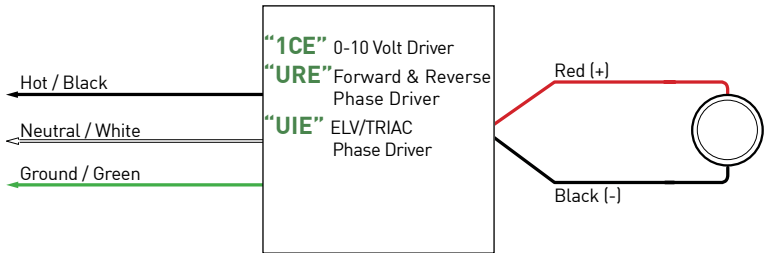


Q. DRIVER WIRING DETAIL

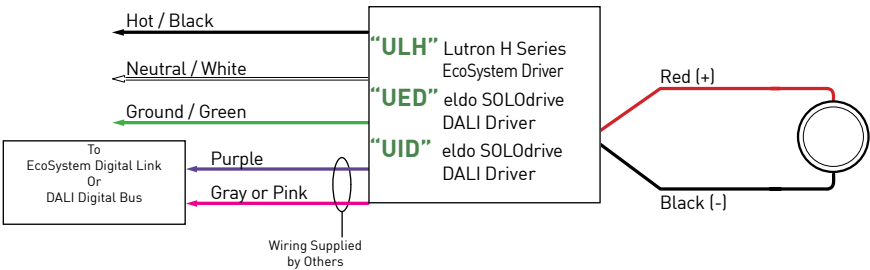
GENERAL WIRING NOTES

- 1. Consult approved dimmer list to ensure compatibility.
- 2. Install in accordance with manufacturer’s dimmer installation guidelines.
- 3. Secondary and 0-10V connections are polarity sensitive.

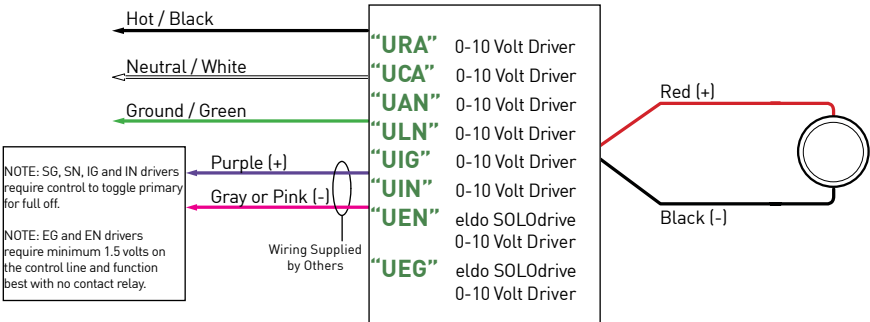
WIRING DIAGRAM FOR PHASE DIMMING



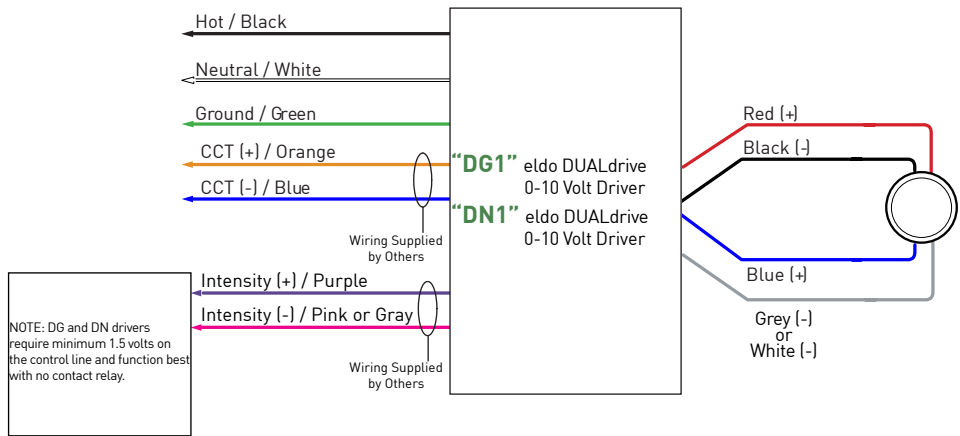
WIRING DIAGRAM FOR ECOSYSTEM AND DIGITAL CONTROL



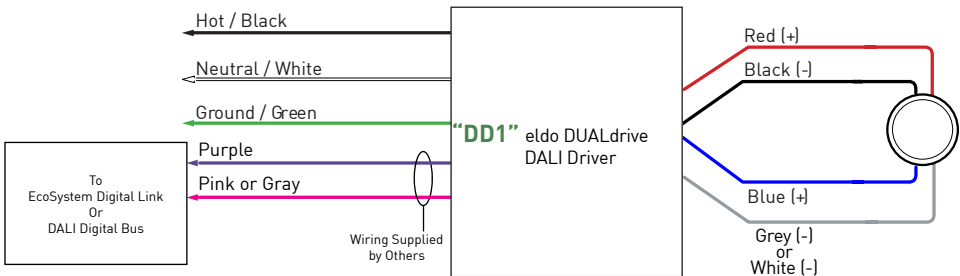
WIRING DIAGRAM FOR ANALOG CONTROL



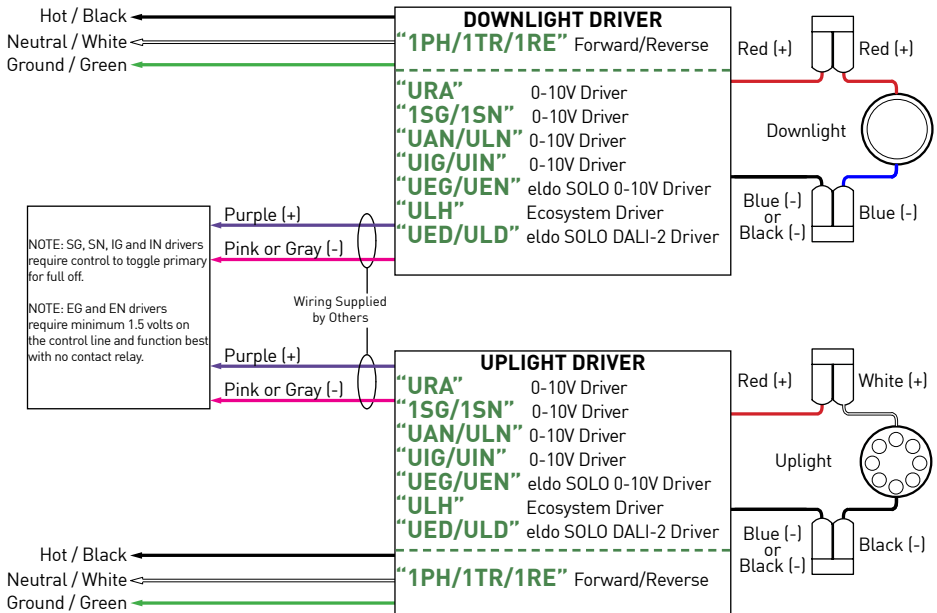
WIRING DIAGRAM FOR TUNABLE WHITE ANALOG CONTROL



WIRING DIAGRAM FOR TUNABLE WHITE DALI CONTROL



WIRING DIAGRAM FOR PENDANT UP-DOWN



MAXIMUM ALLOWABLE WIRING DISTANCES

Standard Drivers: “URA” & “URE”

AWG Value	20	18	16	14
Distance (m)	12	20	32	50
Distance (ft)	40	66	105	164

Philips Drivers: “TR”, “AN”, & “LN”

AWG Value	20	18	16	14	12
Distance (m)	14	22	34	55	87
Distance (ft)	45	71	113	180	285

Lutron Drivers: “LH”

AWG Value	18	16	14	12
Distance (m)	4.5	7.5	12	18
Distance (ft)	15	25	40	60

eldoLED Drivers: “ED”, “LD”, “LA”, “EA”

AWG Value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	46	59	72	92	118

R. STEM WIRING REQUIREMENTS

INTEGRAL DRIVER	LINE VOLTAGE / CONTROL WIRING
CE	QTY. 3 #14-#12 BLACK, WHITE & GROUND
CA	QTY. 3 #14-#12 BLACK, WHITE & GROUND QTY. 2 #18 GRAY (-) & PURPLE (+)

REMOTE / LVS / POE	CLASS 2 WIRING
URA/URE	QTY. 2 #14-#12 BLACK (-) & RED (+)
1TR	QTY. 2 #14-#12 BLACK (-) & RED (+)
UAN	QTY. 2 #14-#12 BLACK (-) & RED (+)
ULN	QTY. 2 #14-#12 BLACK (-) & RED (+)
UEA	QTY. 2 #14-#12 BLACK (-) & RED (+)
UEN	QTY. 2 #14-#12 BLACK (-) & RED (+)
ULH	QTY. 2 #14-#12 BLACK (-) & RED (+)
UED	QTY. 2 #14-#12 BLACK (-) & RED (+)
ULD	QTY. 2 #14-#12 BLACK (-) & RED (+)
LVS / POE	QTY. 2 #14-#12 BLACK (-) & RED (+)




S. UL2108 INSTALLATION INFORMATION

Drive Current Information:

	80S						90S					
	11B	14D	17B	23B	32B	38B	11B	14D	17B	24B	32B	38B
Minimum Vf	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Maximum Vf	36.2	37	36.2	36.2	36.2	36.2	36.2	37	36.2	36.2	36.2	36.2
Current mA	250	300	400	550	750	900	250	300	400	550	750	900
Wattage W	8.4	10.8	13.2	18.6	26.1	31.7	8.4	10.8	13.2	18.6	26.1	31.7

	95/97S						90L					90T		
	11B	14D	17B	24B	32B	38B	11A	13D	17A	24B	32B	10D	17A	32B
Minimum Vf	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Maximum Vf	36.2	37	36.2	36.2	36.2	36.2	37.7	38.6	37.7	37.7	37.7	36.2	36.2	36.2
Current mA	250	300	400	550	750	900	250	280	250	300	750	225	400	750
Wattage W	8.4	10.8	13.2	18.6	26.1	31.7	8.4	10.8	13.2	18.6	26.1	8.3	14.4	27

Node Compatibility:

Manufacturer	Model Number
 Enabling Smart Buildings™	NP50-60-C-F-5
	180996-1001 180996-1002 180996-2001 180996-2002
	1 Channel Node, POE-ULN-1U-E 2 Channel Node, POE-ULN-2U-E 4 Channel Node, POE-ULN-4U-E

Please consult website for full warranty terms and conditions:

www.luciferlighting.com/warranty

[05292025]

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