



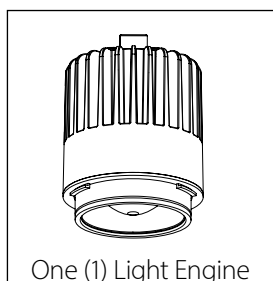
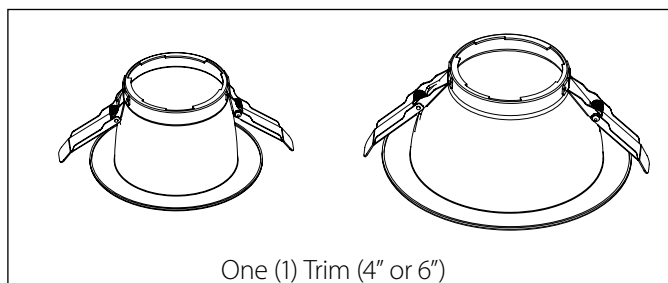
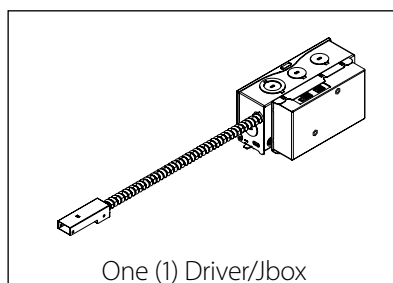
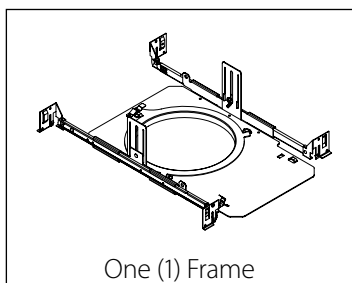
WARNING:

RISK OF ELECTRIC SHOCK. Disconnect power at fuse or circuit breaker before installing or servicing.
RISK OF FIRE. Keep combustible and other materials that can burn, including insulation, at least 3" away all sides of the luminaire.
 Make all electrical and grounded connections in accordance with the NEC and any applicable local code requirements.
 Commercial installation, service and maintenance of luminaire should be performed by a qualified licensed electrician.
 Do not touch the yellow surface of the LED as it may damage the light engine.
 Do not use this equipment for other than the intended use.

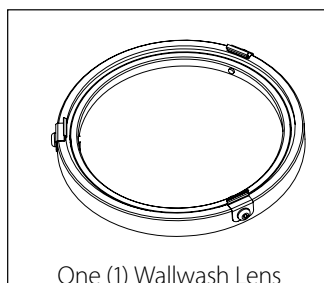
DO NOT INSTALL DAMAGED PRODUCT!

Make sure that the supply voltage is the same as the luminaire voltage.
 Suitable for use in wet location in covered ceiling installations only.

Components required for installation



Accessories



Make sure all power is turned off before beginning installation

Installation

Main steps for new construction installation are as follows:

- 1) Preparation of installation surface
- 2) Assembly and Rough-in of Frame
- 3) Installation of Driver/Junction Box
- 4) Electrical Connections and Fixture Settings
- 5) Assembly of light engine and trim
- 6) Installation of light engine and trim

Main steps for retrofit installation are as follows:

- 1) Installation of Driver/Junction Box
- 2) Electrical Connections and Fixture Settings
- 3) Assembly of light engine and trim
- 4) Installation of light engine and trim

- 1 Shut off power to desired circuit before any work. Identify and prepare location for installation.

The frame has provision for 4" and 6" trims. Use the below table for the proper hole size for installation.

Scribe a circle in the ceiling in the desired location per the table below. Accurately and cleanly cut hole in ceiling.

Cutout Size

CDG4 = 5.0" (127mm)

CDG6 = 6.5" (165mm)

New Construction Frame Configuration

2 Frame and Driver Assembly

Note: The frame and driver ship pre assembled. The frame ships with the 6" sizing ring installed.

- If 4" size is desired, remove installed ring by rotating to release tabs and remove. Install 4" sizing ring onto frame by placing on top of frame and rotating to lock tabs into slots. The unused ring may be disposed of.
- If the driver needs to be removed during installation, remove from the frame by opening latch on frame and lifting driver from slot. Driver can be reinstalled either direction (jbox toward or away from trim opening) based on user preference.

Frame Rough-In

Note: Bar hangers are adjustable for use in installations with spacing from 14" to 24" and vertically 1.7". They can be used with joist installations of wood, engineered lumber, steel stud construction and with grid ceilings having T-bars.

T-Grid Installation

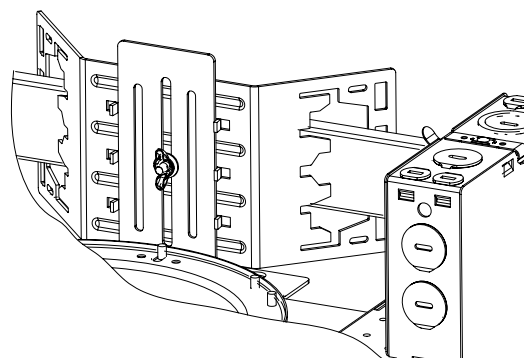
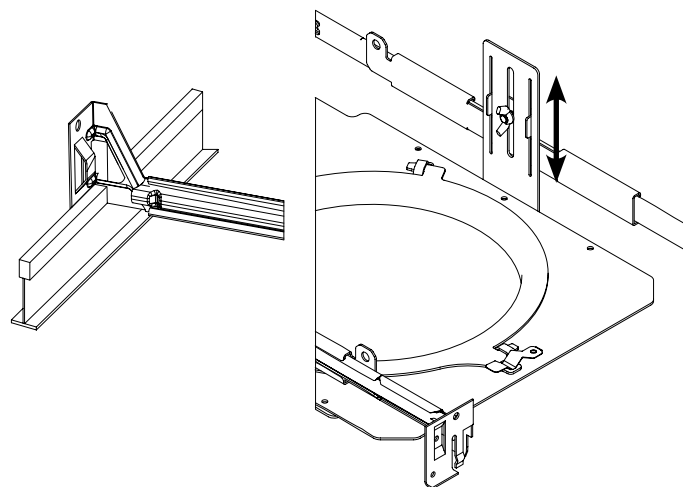
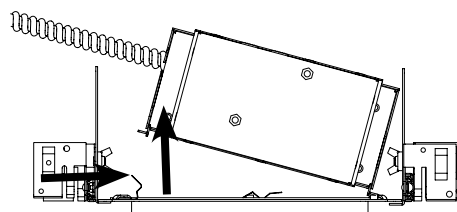
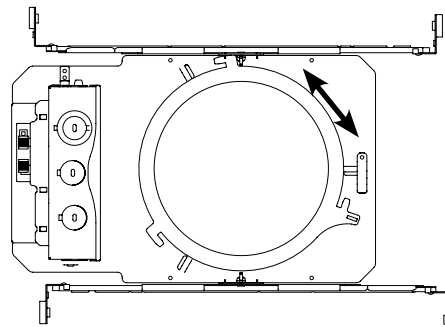
- Adjust hanger bars to proper length between t-grid rails.
- Secure hanger bars to T-bar with an approved fastening method (screws, wire ties, etc.).
- Align the frame ring with the cutout on the ceiling.
- Adjust the frame vertically to have the bottom edge of the size ring be flush with the ceiling line.
- Tighten wing nuts to secure frame position.
- Consult local building codes for final support of fixtures to structure.

Joist Installation

- Extend bar hangers to fit between wood joists and position the "L" shaped leg at the end of the bar hanger to the bottom of the joist.
- Bar hangers should be level with the bottom of the joist or framing member.
- Hammer nails (not provided) through hanger bar foot holes and directly into the wooden joist.

Butterfly Bracket (optional accessory)

- Remove hanger bar by loosening wing nut and removing bolt. Do not discard.
- Align butterfly bracket with frame uprights and install bolt through bracket and upright. Secure with wing nut.



Installation (continued)

3 Electrical Installation

Junction Box is thru-wire rated for up to six (6) 12AWG conductors (3 in-3 out). Wire must be rated for 90°C minimum.

- Identify the appropriate openings on the J-Box for the building wiring. Remove knockouts on the J-Box.
- Press the clip to open the junction box door.
- Feed the building wiring into the knockouts and connect to the building wiring per the wiring diagram and in accordance with NEC and your local electrical code.
- Close the junction box door, making sure the clip snaps securely.

CCT / Wattage Selection

The driver has two switches on the top, one with 3 positions for Wattage setting, one with 5 positions for CCT setting.

- With power off, move the switches to the desired settings.
- If settings are to be changed after installation, make sure power is off before switching.

4 Light Engine and Trim Mating

The light engine and trim connect with a twist lock system.

- Place the light engine on the back of the trim. Aligning the light engine tabs to the slots on the trim.
- Twist the light engine until the trim is fully seated.

Light Engine Electrical Connection

- Pull the conduit whip from the driver through the frame cutout hole.
- Slide the whip onto the connector on the top of the light engine.

5 Light Engine and Trim Installation

- Fold up spring arms on sides of trim. *Caution: Springs can snap open and cause damage to hands or trim flange.*
- Align trim with hole in ceiling and insert until spring arms are above ceiling plane.
- Allow spring arms to slowly open, pulling trim up to ceiling. Trim may need to be rotated to allow arms to fully seat.

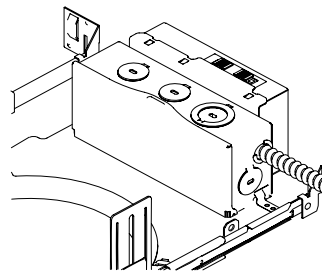
6 Optic Adjustment and Wallwash insert installation

The optic on the light engine can be adjusted as follows:

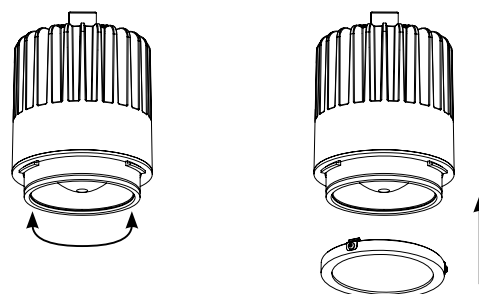
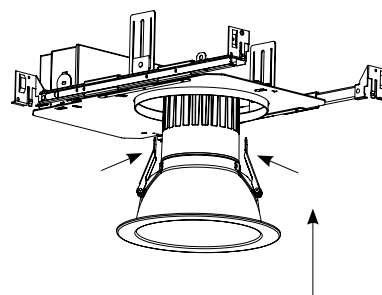
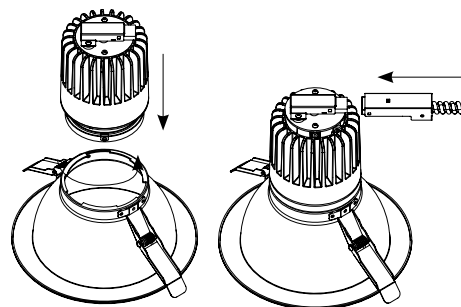
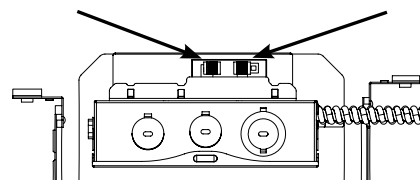
- 6" standard optic : 36°-60°
- 4" standard optic : 36°-52°
- 6" and 4" narrow optic 22°-36°
- Grasp the bottom of the light engine and turn it to the desired angle. There are marks on the engine to indicate the angle.

Wallwash Insert

- Align the insert with the bottom of the light engine and press up to engage the insert clips.
- To aim wallwash, spin the insert to align arrow on insert with desired direction.



| | | |
|------------------|---------|------------|
| Ground | Ground | LED Driver |
| Common | White | |
| Line | Black | |
| 0-10V (-) | Pink* | |
| 0-10V (+) | Purple* | |
| +12VDC Out | Blue* | |
| *Cap if not used | | |



Retrofit Installation

Note: The CDG retrofit can be installed using existing fluorescent or halogen frames or without a frame in a properly sized opening.

The openings of the frames or the ceiling hole needs to be:

CDG4 = 5.0" (127mm)

CDG6 = 6.5" (165mm)

1 Electrical Installation

Junction Box is thru-wire rated for up to six (6) 12AWG conductors (3 in-3 out). Wire must be rated for 90°C minimum.

- Identify the appropriate openings on the J-Box for the building wiring. Remove knockouts on the J-Box.
- Press the clip to open the junction box door.
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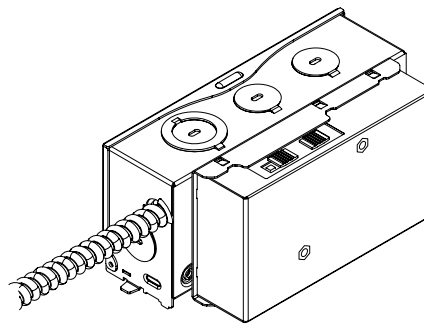
- Place the light engine on the back of the trim. Aligning the light engine tabs to the slots on the trim.
- Twist the light engine until the trim is fully seated.

Light Engine Electrical Connection

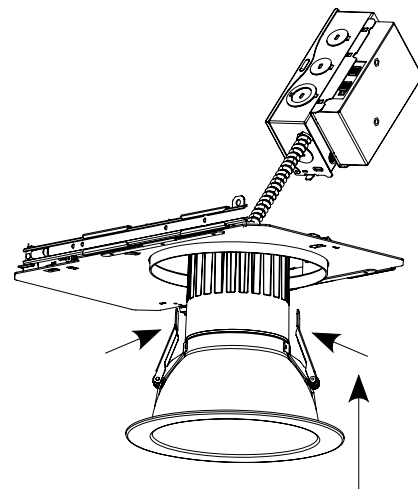
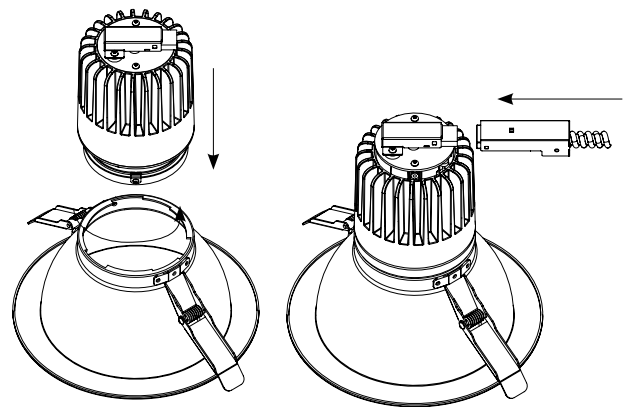
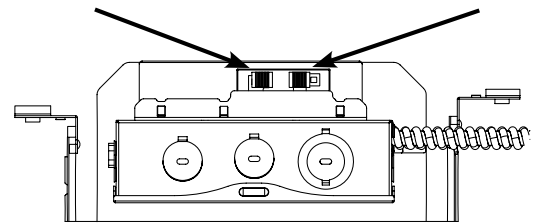
- Pull the conduit whip from the driver through the ceiling cutout hole.
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Retrofit Installation (continued)

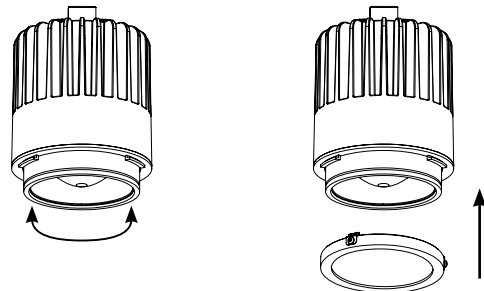
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- 6" standard optic : 36°-60°
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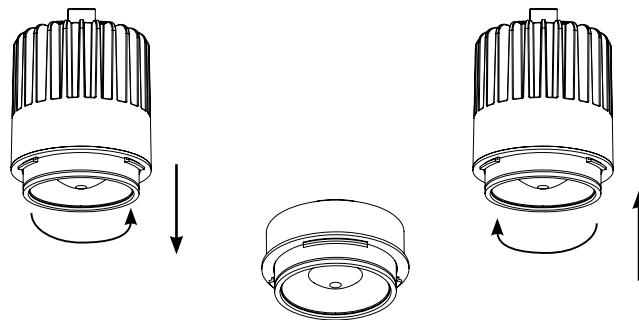


Accessory Installation

1 Narrow Optic Kit Installation

The optic on the light engine can field swapped as follows:

- Remove the light engine from the driver and frame and remove the trim from the light engine.
- Using the included allen key, loosen the set screw in the side of the light engine.
- Remove the installed optic by unscrewing the optic assembly from the heat sink.
- Install the Narrow Optic Kit by screwing it into the housing until fully seated.
- Lock the Optic Kit in place by securing the set screw.



LED EXPRESS LIMITED WARRANTY

Subject to the exclusions below, each NICOR LED product, including the LED electronics and components of a property installed NICOR LED product, will be free from defect in materials and workmanship for a period of five (5) years from the original date of purchase. The product shall be considered defective only if 10% or more of the product's LED components fail. NICOR LED product warranty covers the following performance criteria: LED Light Output will be maintained above 70% of initial output; LED color temperature will not shift more than 200K in CCT; LED driver will operate within NICOR specifications; and the fixture finish, excluding natural aluminum or brass products, will not exhibit cracking, peeling, excessive fading, or corrosion during the warranty period. Exceptions apply as defined in NICOR's product specification sheets, which are incorporated by reference herein.

This limited warranty is provided to you, the purchaser of the product identified on Seller's invoice, as your exclusive remedy and applies only to NICOR products that have been purchased from an authorized NICOR Distributor; the product was new and in an unopened NICOR package at the time of installation; and the NICOR product was installed by a licensed electrician or under the supervision of a licensed electrician and used by consumers in the United States or Canada when accompanied with this warranty. This warranty extends only to the first consumer purchaser and is not transferable. A consumer wishing to invoke the terms of this limited warranty must first obtain a RGA number within 30 days of discovery of the defect, and return the product to NICOR for inspection. Once verified to be covered by this limited warranty, NICOR will, at its sole discretion, repair, replace, or refund the purchase price of any product that does not conform to this limited warranty. If NICOR, at its sole discretion, determines that the product should be repaired or replaced, this warranty is limited to the reasonable, customary, and necessary costs and expenses associated with the repair/replacement. This warranty requires that all repair/replacement estimates and costs, including but not limited to equipment rental (if any), and any other cost or expense to be incurred in the repair/replacement of the product, be approved in advance and in writing by NICOR.

FAILURE TO OBTAIN NICOR'S ADVANCE WRITTEN APPROVAL OF ALL REPAIR/REPLACEMENT COSTS AND EXPENSES IN WRITING SHALL VOID THIS LIMITED WARRANTY.

THIS LIMITED WARRANTY DOES NOT COVER THE FOLLOWING:

- Defects or damages resulting from improper installation, operation, storage, misuse or abuse, accident, or neglect;
- Defects or damages resulting from improper service, testing, adjustment, installation, maintenance, alteration, connection to out-of-specification electrical service, corrosive or damp environments, or connection to incompatible equipment or devices (e.g., connecting non-dimmable lighting products to dimmers);
- Damage which occurs in transit;
- Power surges or overheating due to external conditions
- Acts of nature including but not limited to lightning strikes

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL NICOR BE LIABLE, WHETHER IN CONTRACT OR IN TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCT TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help