

Project Name:

Type:

Quantity:

FIXTURE SPECIFICATIONS

INTENDED USE

Engineered to provide powerful surrounding light in small spaces, the recessed 12-volt LED product yields round and square direct, as well as round and square adjustable downlight. Diecast metal construction is made for greater heat dissipation and built to last with a powder coat finish and rated for wet locations. Mounting can be daisy-chained for up to six fixtures for simple installation. Height allows for 2x4 construction. No frame required on remodel installation. Available in a range of color temperatures.

PRODUCT FAMILY

14142-R-DIR	1-Inch Round Direct
14142-R-ADJ	1-Inch Round Adjustable
14142-S-DIR	1-Inch Square Direct
14142-S-ADJ	1-Inch Square Adjustable

ADDITIONAL FEATURES

Construction: Lasting quality, powder coat finish diecast construction for greater heat dissipation

Lens: PC lens for even lumen distribution

Adjustability: ADJ: 360° rotation with 30° gimbal adjustability which can be also locked into place by tightening locking screw

CRI: 93+

Mounting: Can be daisy-chained up to 6 fixtures for simple installation. Height allows for 2x4 construction. No frame required on remodel installation.

Driver Control: Can control up to 6 fixtures daisy-chained, or can be wired 1 fixture per driver.

Voltage: 12V. Recommended maximum voltage drop 10.5V

Lumens: 100-110 lumens/watt. R-DIR & S-DIR: 450-675 lm, R-ADJ & S-ADJ: 625-700 lm

Wattage: 6W

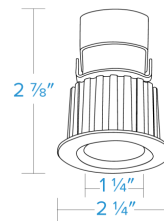
Life-span: 50,000 hours

Listing: DIR models are Wet-location rated, ADJ models are Damp-location rated, IC-rated for insulated ceilings, Title 24, Energy Star certified

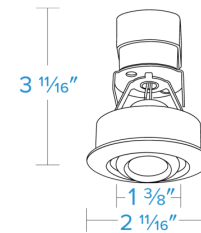
Warranty: 5 years carefree for parts and components (labor not included).



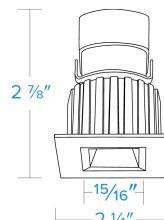
Finish Options



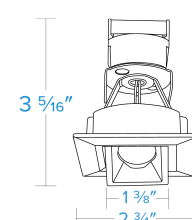
Round Direct



Round Adjustable



Square Direct



Square Adjustable



ORDERING INFORMATION Example: (14142-R-DIR-B38-WH-30K-NC1-010-120)

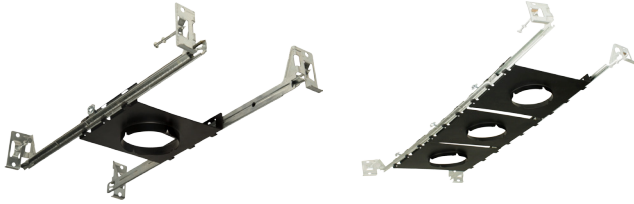
Model	Shape	Design	Beam Spread	Finish	Color Temp	Housing	Remote Power Supply
14142	R Round	DIR Direct	B28 28° Angle	WH White	27K 2700K	Blank No Frame, not required for remodel	MLV Magnetic Low Voltage (120V)
	S Square	ADJ Adjustable ¹	B38 38° Angle <small>Standard</small>	BK Black	30K 3000K	NC1 New Construction IC rated 1-light	ELV Electronic Low Voltage (120V)
			B50 50° Angle	BZ Bronze	35K 3500K	NC2 New Construction IC Rated 2-light	010-120 0-10V (120V)
					40K 4000K	NC3 New Construction IC Rated 3-light	010-277 0-10V (277V)
						NC4 New Construction IC Rated 4-light	
						NC5 New Construction IC Rated 5-light	
						NC-IC² New Construction IC Rated R60 1-light	

¹ Not Wet Location rated

² Not compatible with MLV

HOUSING

For Direct Models Only



New Construction IC Rated Frame

NC1 for Direct Models
(2" Cutout)

- Requires Transformer
- IC Rated with R-DIR & S-DIR

New Construction IC Rated Multiple Frame

for Direct Models
NC2 (2-light)
NC3 (3-light)
NC4 (4-light)
NC5 (5-light)

- Requires Transformer
- For row mounting fixtures
- IC Rated with R-DIR & S-DIR

For Adjustable Models Only



New Construction IC Rated Frame

NC1 for Adjustable Models
(2 3/8" Cutout)

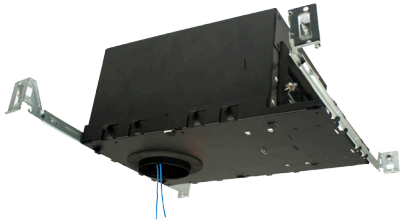
- Requires Transformer
- IC Rated with R-ADJ & S-ADJ

New Construction IC Rated Multiple Frame

for Adjustable Models
NC2 (2-light)
NC3 (3-light)
NC4 (4-light)
NC5 (5-light)

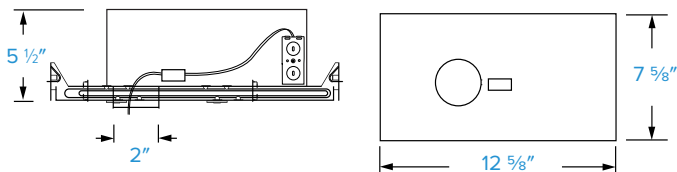
- Requires Transformer
- For row mounting fixtures
- IC Rated with R-ADJ & S-ADJ

For Direct Models Only

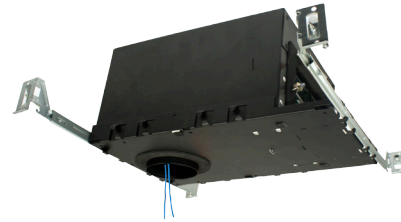


NC-IC New Construction R60 Insulation Housing, IC Airtight

- R60 Insulation housing, IC Airtight
- Includes individual 12V AC electronic transformer
- 2" cutout for downlight R-DIR & S-DIR

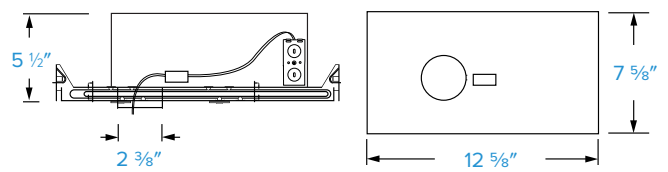


For Adjustable Models Only



NC-IC New Construction R60 Insulation Housing, IC Airtight

- R60 Insulation housing, IC Airtight
- Includes individual electronic transformer
- 2 3/8" cutout for adjustable R-ADJ & S-ADJ



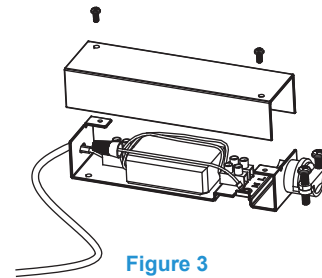
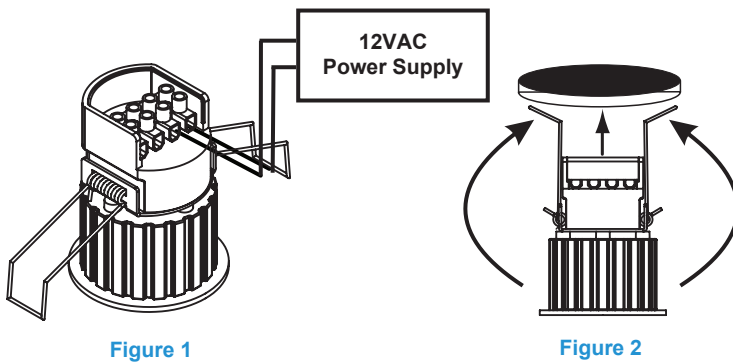
INSTALLATION INSTRUCTIONS

Safety Information: For your safety, read and understand these instructions completely before starting installation.

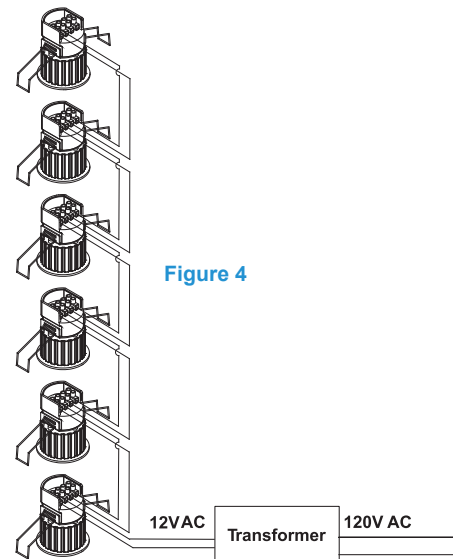
Note: THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND HAZARDS INVOLVED.

WARNING - RISK OF FIRE OR ELECTRIC SHOCK

- LED installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation, contact a qualified electrician.
- Before proceeding with installation, disconnect power to the luminaire. Failure to do so may result in electric shock and lead to injury or death.
- Notice: Alcon's one inch LED fixtures are rated for direct insulation contact. For adjustable applications, it is advised for insulation set-back to prevent falling debris.



1. Alcon Lighting's one inch led fixtures are designed for 120V input that is stepped down to 12V low voltage applications.
2. Alcon Lighting's one inch led fixtures are adaptable to 1/4" to 1" ceiling thicknesses. A 2" hole size is recommended for fixed one inch led fixtures. A 2 3/8" hole size is recommended for the adjustable one inch led fixture.
3. The transformer should be installed into ceiling by two screws (attached accessory) and within 4 feet of first fixture. Follow the wiring diagram for electrical connections. MAX paralleled 6 lighting fixtures. (Figure 3 and Figure 4)
4. Loosen the terminal block cover on top of the one inch led fixture and insert the secondary leads of the 12V transformer into the adjacent terminal blocks on left or right side (Figure 1). The terminal blocks are designed to accept 18-12AWG wires. Tighten terminal block screws to secure the secondary wires. The one inch led fixture may be daisy chained using the second pair of terminal blocks.
5. Route the wires back into the ceiling opening. Lift the two springs towards the terminal blocks and insert into ceiling opening. (Figure 2)



COLOR TEMPERATURE GUIDE

