



HELIOS SERIES | 3" RECESSED

Client:
Project:
Type:
Quantity:



Tilttable Up to 30°



Product Features

Helios Series 3" Recessed Downlight represents the new generation of the ALLURE line, bringing the industry's best performance small-aperture downlights. Trim, optics, and aiming options provide the highest quality of light possible, offering uncompromised performance, finishes, and serviceability. Base light engine offers selectable wattage (5~19W) with 90CRI maintained across 2700K~4000K. A Dim-to-Warm option is available, providing 95CRI over a 3000K~2000K range. Heatsink and trim made from aluminum extruded profile; with round and square trim options for downlighting or wall wash application, >90 CRI for fixed CCT, >95 CRI for Dim-to-Warm; cULus listed for damp location standard.

Technical Specifications

INPUT VOLTAGE	120-277VAC
FREQUENCY	50/60hz
LUMEN	475 ~ 1,700LM
WATTAGE	5 / 8 / 10 / 13 / 16 / 19W
LPW	93LPW Avg.
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K / 3000K~2000K Dim-to-Warm
COLOR RENDERING INDEX	>90 (Static CCT), >95 (Dim-to-Warm)
DISTRIBUTION	15° / 24° / 36° / 60° - Low Glare Lens 18° / 24° / 38° / 50°
IP RATING	Damp Location / Wet Location with Optional Waterproof Lens
LIFE SPAN	>50,000 Hours
DIMMING	0-10V, 1% Dimming and Triac Dimming (2-in-1)



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Specifications and dimensions
subject to change without notice

Rev:01/22/26

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HELIOS SERIES | 3" RECESSED

SUBMITTAL WORKSHEET

Order Code Example: SERIES / LIGHT ENGINE / CCT / BEAM ANGLE / LENS HOLDER

HL3 - blank - 930 - 15 TA

A B C D E



Light Engine



Optics



30° Vertical Tilt
360° Horizontal
Adjustable Lens Holder



Flange

Order Code Example: LENS HOLDER / FLANGE FINISH

blank - BK
F G

A SERIES (CHOOSE ONE)

HL3 Helios Series 3" Recessed Downlight

B LIGHT ENGINE

CODE	POWER	LPW
blank QS	Field Selectable 5W / 8W / 10W / 13W / 16W / 19W	93 Avg.

C CCT (CHOOSE ONE)

CODE	CCT
927 QS	90CRI, 2700K
930 QS	90CRI, 3000K
935 QS	90CRI, 3500K
940 QS	90CRI, 4000K
DW QS	95CRI, 3000K~2000K Dim-to-Warm (Up to 13W / 1200LM)

D BEAM ANGLE (CHOOSE ONE)

CODE	BEAM ANGLE	LOW GLARE LENS
15 QS	15°	LG18 QS 18°
24 QS	24°	LG24 QS 24°
36 QS	36°	LG38 QS 38°
60 QS	60°	LG50 QS 50°

E LENS HOLDER (CHOOSE ONE)

HA QS 360° Horizontal Adjustment
TA QS 30° Vertical Tilt Angle and 360° Horizontal Adjustment



F INPUT

blank QS 0-10V, 1% Dimming and Triac Dimming (2-in-1)

G FLANGE FINISH (CHOOSE ONE)

BK QS Black
WH QS White

HELIOS SERIES | 3" RECESSED
SUBMITTAL WORKSHEET

Order Code Example: TRIM

R-BK

H



Trim

H TRIM (CHOOSE ONE)
ROUND

R-BK	QS	Black
R-WH	QS	White
R-GD	QS	Gold
R-CH	QS	Chrome

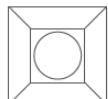

 *Optional Honeycomb or Wet-Rated Waterproof Lens.
 Select on Page 4.

ROUND WALL WASH

RW-BK	QS	Black
RW-WH	QS	White

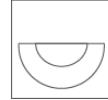

SQUARE

S-BK	QS	Black
S-WH	QS	White
S-GD	QS	Gold
S-CH	QS	Chrome

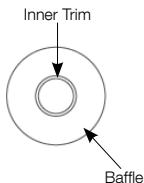

 *Optional Honeycomb or Wet-Rated Waterproof Lens.
 Select on Page 4.

SQUARE WALL WASH

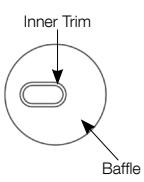
SW-BK	QS	Black
SW-WH	QS	White


PINHOLE ROUND

PR-BK-BK	QS	Black Inner Trim / Black Baffle
PR-WH-BK	QS	White Inner Trim / Black Baffle
PR-GD-BK	QS	Gold Inner Trim / Black Baffle
PR-CH-BK	QS	Chrome Inner Trim / Black Baffle
PR-BK-WH	QS	Black Inner Trim / White Baffle
PR-WH-WH	QS	White Inner Trim / White Baffle
PR-GD-WH	QS	Gold Inner Trim / White Baffle
PR-CH-WH	QS	Chrome Inner Trim / White Baffle


PINHOLE OVAL

PO-BK-BK	QS	Black Inner Trim / Black Baffle
PO-WH-BK	QS	White Inner Trim / Black Baffle
PO-GD-BK	QS	Gold Inner Trim / Black Baffle
PO-CH-BK	QS	Chrome Inner Trim / Black Baffle
PO-BK-WH	QS	Black Inner Trim / White Baffle
PO-WH-WH	QS	White Inner Trim / White Baffle
PO-GD-WH	QS	Gold Inner Trim / White Baffle
PO-CH-WH	QS	Chrome Inner Trim / White Baffle



HELIOS SERIES | 3" RECESSED
SUBMITTAL WORKSHEET

 Order Code Example: **OPTIC MEDIA**

BDK-WH



Optic Media

 Order Code Example: **MOUNTING / EMB**

NCH - EMB-H08170

J

K

I OPTIC MEDIA (CHOOSE ONE - OPTIONAL)

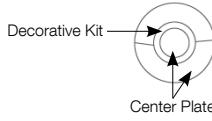
blank	QS	None
HB*	QS	Honeycomb Louver
WR*	QS	Wet Rated Round Waterproof Lens
WS*	QS	Wet Rated Square Waterproof Lens

 *Compatible with **Round** and **Square** Downlight Trims Only

BDK-__**	QS	Blue Decorative Kit with BK: Black or WH: White Center Plate
GDK-__**	QS	Green Decorative Kit with BK: Black or WH: White Center Plate
RDK-__**	QS	Red Decorative Kit with BK: Black or WH: White Center Plate
TDK-__**	QS	Transparent Decorative Kit with BK: Black or WH: White Center Plate
YDK-__**	QS	Yellow Decorative Kit with BK: Black or WH: White Center Plate

 Compatible with **Round Trims Only

 HB
 Honeycomb

 WR/WS
 Wet Rated Waterproof Lens

 Decorative Kit
 For **ROUND** Trim Finish Only

J MOUNTING (CHOOSE ONE)

RM*	QS	Retrofit/Remodel Kit
HL3-NCH*	QS	New Construction Frame Kit (Non-IC)
HL3-ICH*	QS	New Construction IC-Rated Frame Kit

*See page 7 for spec.

K EMERGENCY BATTERY

EMB-H08170*	QS	90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output
EMB-H18170*	QS	90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output

*See page 9 for spec.

HELIOS SERIES | 3" RECESSED

TRIM FINISHES

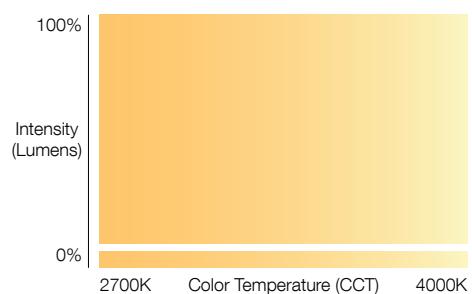


CCT

Fixed CCT

2700K, 3000K, 3500K, 4000K

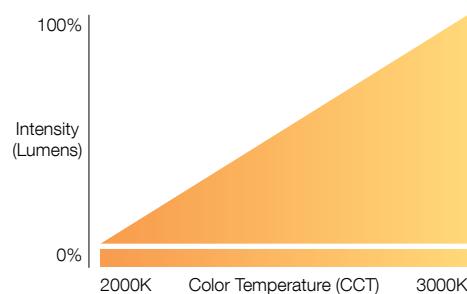
90+ CRI



Dim-to-Warm

3000K-2000K

95+ CRI



LENS

Standard Lens

High efficiency reflector with balanced glare control and light distribution.



15° / 24° / 36° / 60°



Low Glare Lens

Generates a defined cut-off beam without side glare, maximizing anti-glare performance.



18° / 24° / 38° / 50°



HELIOS SERIES | 3" RECESSED
DIMENSIONS

HL3 Light Engine Summary

LED Chip: Static: CREE. Dim-to-Warm: Bridgelux.

Power: 5W / 8W / 10W / 13W / 16W / 19W

Quality: >90 CRI for fixed CCT, >95 CRI for Dim-to-Warm

CCT: Static: 2700K / 3000K / 3500K / 4000K. Dim-to-Warm: 3000K~2000K

Input: 120-277VAC

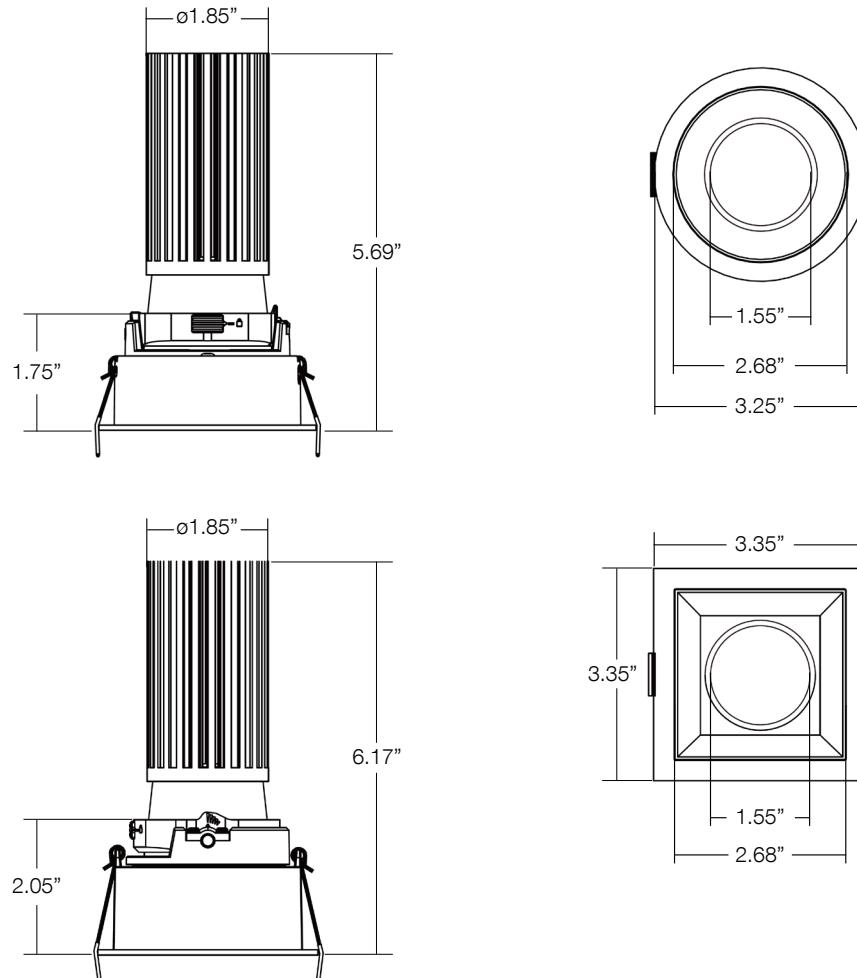
Dimming: 0-10V, 1% Dimming and Triac Dimming (2-in-1)

Power Factor: Greater than 0.9

Ambient Operating Temperature: -20°C to 40°C

Lifetime: 50,000 hours at 70% lumen maintenance

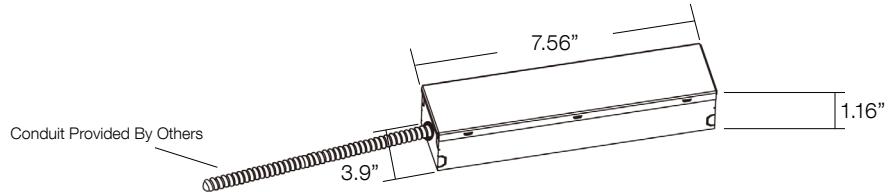
Listing: cULus Damp Location / Wet Location with Optional Waterproof Lens.



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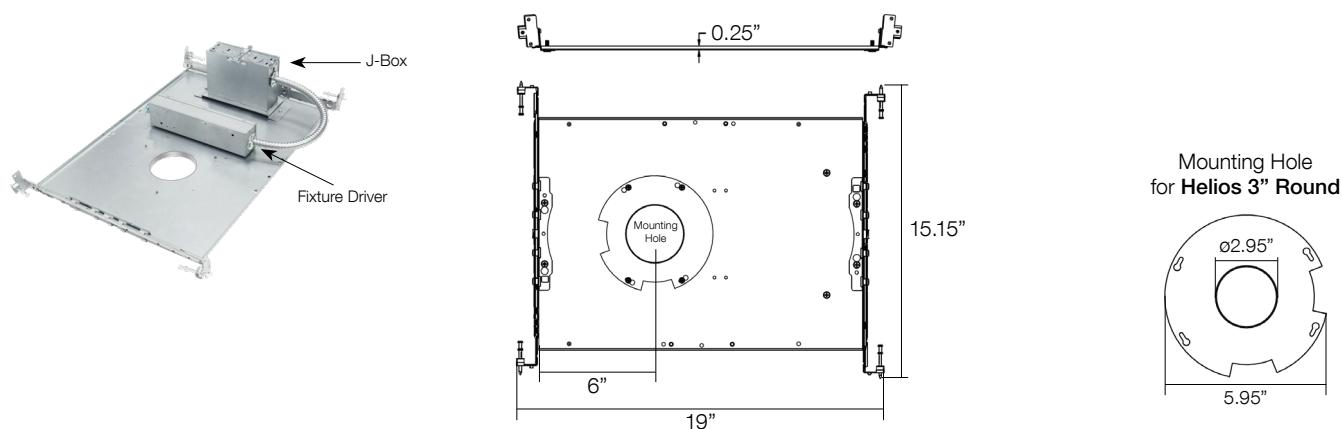
DIMENSIONS - HOUSING

RM - No Housing, Remote Mount Driver with Enclosure



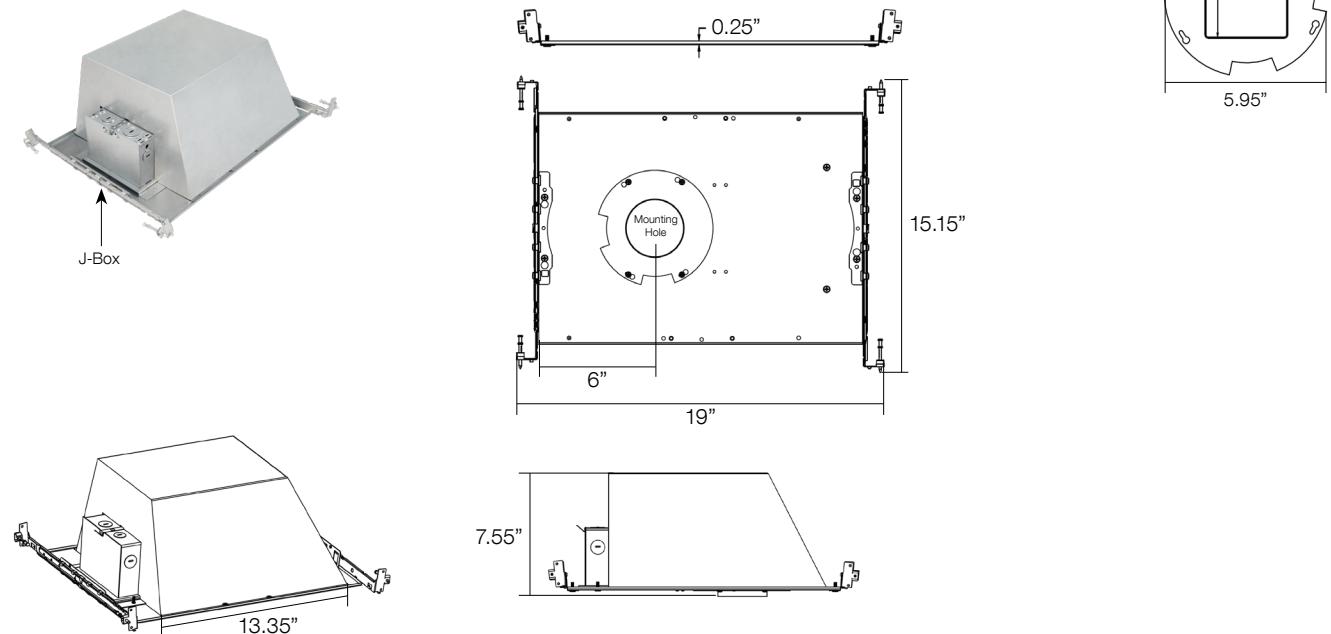
HL3-NCH - New Construction Frame Kit (Non-IC)

Standard Non-IC mounting frame.
 Wiring junction box, fixture driver box rest on the frame kit by magnet when installed as shown below.



HL3-ICH - New Construction IC-Rated Frame Kit

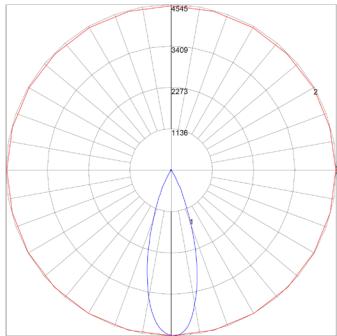
IC-Rated housing frame kit allows direct contact with insulation.



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PERFORMANCE

IES: HL3 Round @ 19W 90CRI 2700K 36°

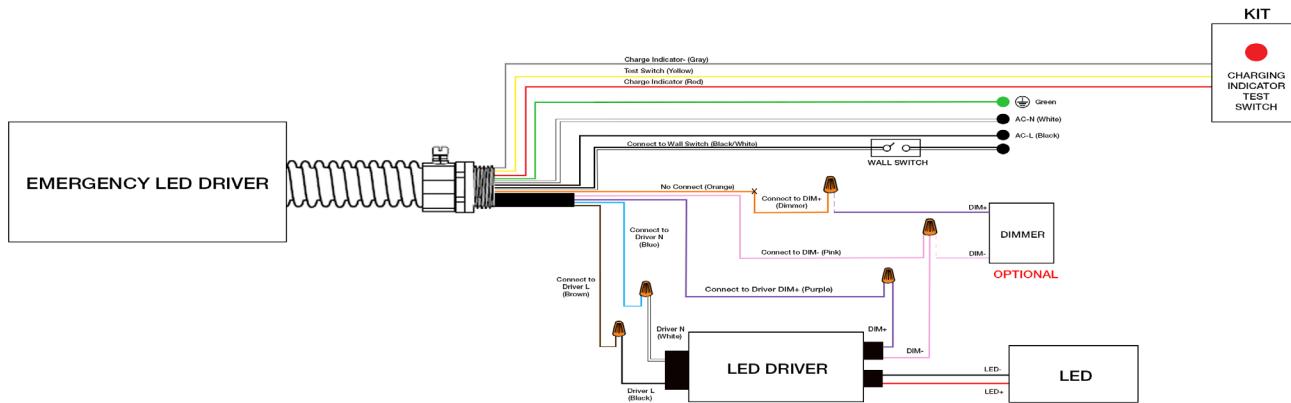


Zone	Lumen	Luminaire%
0-30	1445	92.80
0-40	1496	96.00
0-60	1525	97.90
0-90	1538	98.70
0-180	1558	100

Lumen: 1558
Input Watts: 19 W
Efficacy: 82 LPW

HELIOS SERIES | 3" RECESSED
EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-H08170	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°C	Field Install
EMB-H18170	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°C	Field Install

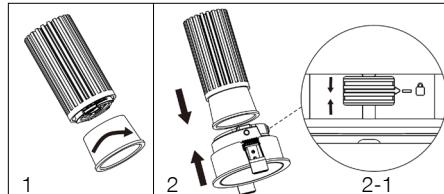


HELIOS SERIES | 3" RECESSED
INSTALLATION
Assemble Trim, Lens, and LED Engine
1. Assemble Lens and LED Engine:

Attached together, and secure them tight with clockwise direction.

2. Assemble Lens and Trim:

Slide the button downward in the trim direction to combine the lens and trim. Once aligned, slide it upward to lock into place (See 2-1).

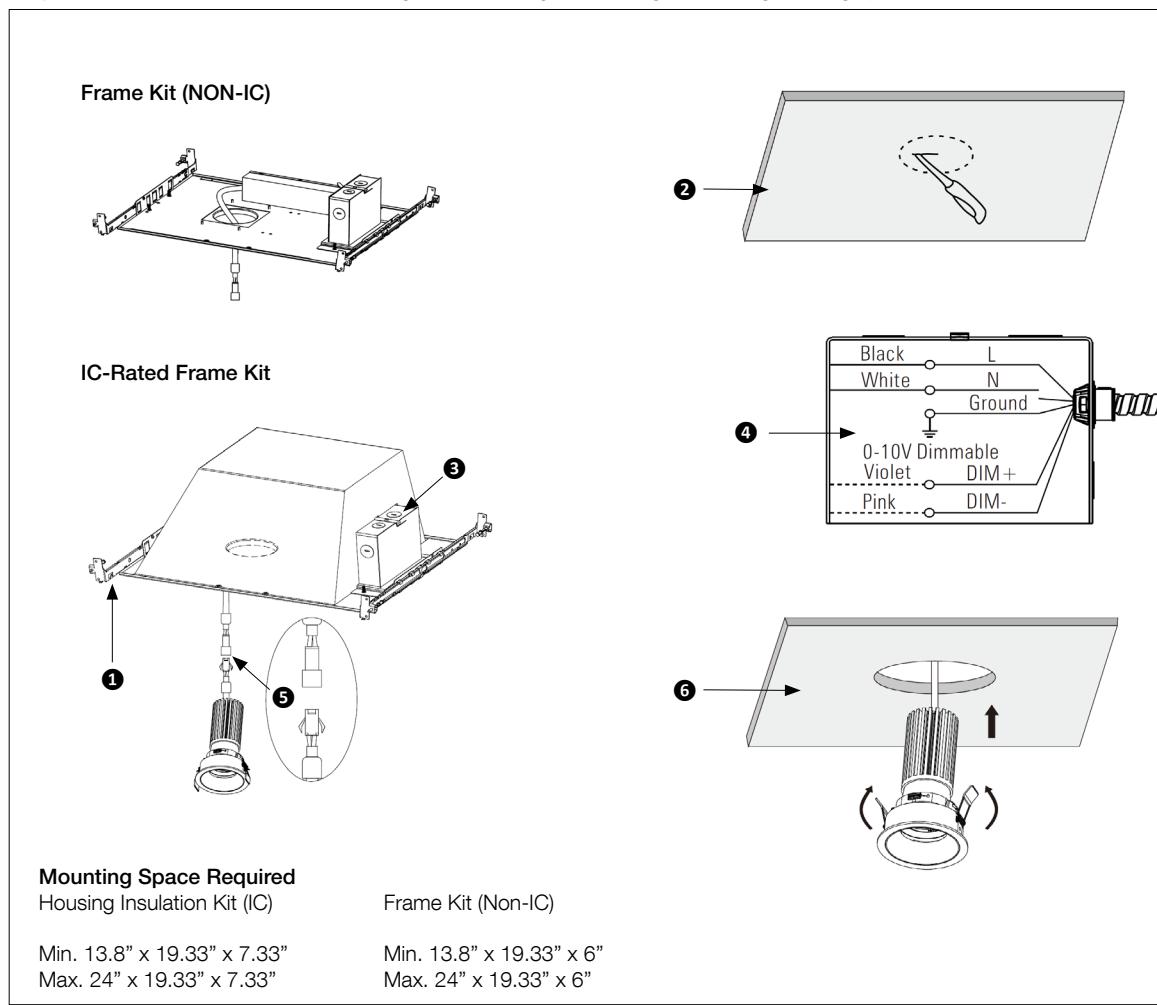

New Construction Applications

Step 1: Install the fixture in the ceiling using the two hanger bars **1** (Supplied). Mount the fixture in the ceiling so that the weight of the fixture is supported by the hanger bars, mounting channel, bar, and/or hanger wires secured to the building structure. Drill hole in drywall **2**. A round ø3.05" hole is needed for Helios 3" Round; 3.20" x 3.05" rectangular hole for Helios 3" Square.

Step 2: Open the J-box **3** **4**, connect the power supply and ground wire according to the wiring diagram. (Only if the driver has 0-10V dimming, the dimming wire needs to be connected).

Step 3: Connect LED downlight with housing using provided quick-connectors **5**.

Step 4: Complete installation by carefully tighten the spring clips through the ceiling opening **6**.



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INSTALLATION

Remodel Applications

Step 1: Drill hole in the ceiling. A round ø3.05" hole is needed for Helios 3" Round; 3.20" x 3.05" rectangular hole for Helios 3" Square.

Step 2: Plug AC power cord into the quick connector A. (Only if the driver has 0-10V dimming, the quick connector B needs to be connected.) Plug the male connector with the female connector. Connect the ground wire **②**.

Step 3: Connect LED downlight with housing using provided quick-connectors **③**.

Step 4: The driver box is fixed to the ceiling by magnetic force of a magnet **④**.

Step 5: Complete installation by carefully tighten the spring clips through the ceiling opening **⑤**.

