

INSTALLATION INSTRUCTIONS

DOWNLIGHT
MODEL: LS9404LED
INPUT VOLTAGE: 12-15 V AC 60 Hz, 12-24 V DC



LS9404LED

Warranty void if not installed per instructions and local electrical code

Note: Fixture uses intelligent driver. Always leave on for 20 seconds unless programming.

WARNING

It is strongly recommended to use Lumascope transformer

Opening luminaire will void warranty

Install in accordance with National Electric Code, ANSI/NFPA 70 or the Canadian Electrical Code, Part I (CEC), CSA C22.1

Never use electronic transformers with LED luminaires

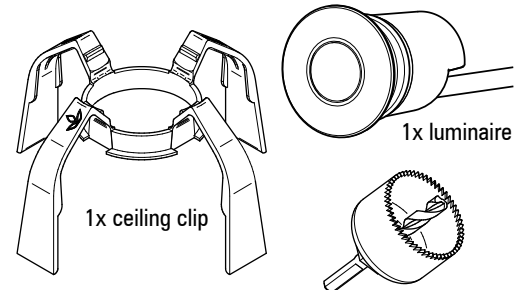
CAUTION

It is strongly recommended to use Lumascope power supply or transformer

Use of electronic transformer will permanently damage luminaire

All connections must be kept dry; failure to do so may result in product reliability issues

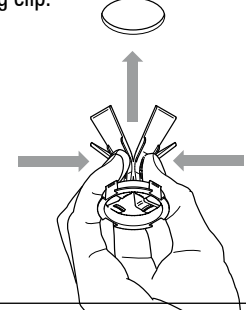
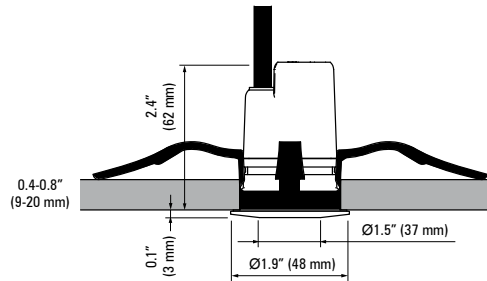
Opening luminaire will void warranty



- Use a Lumascope supplied 24 V DC ripple free power supply or transformer, locate centrally in relation to the luminaires.
- Mark locations of luminaires and using holesaw supplied, drill hole in ceiling or cavity wall.
- Fold legs up on the ceiling clip and insert into hole and feed LS9404LED cable through mounting clip.

NOTE: Generally 24 V DC ripple free power supplies should be installed in a well ventilated fully under cover environment.

NOTE: DC Power supplies are more efficient than AC transformers. Under no circumstances can an 'electronic' transformer be used, this may damage the product.

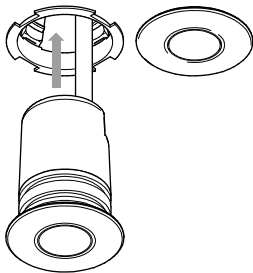


- Calculate the distances, wire gauge and power supply sizes. Lay cable from power supply/transformer for each cable run. **NOTE:** If dimming is required then four conductors will be required. For non-dimmed (usual installation) only two conductors are required. Dimming circuit can use 18 AWG (1 mm) cable.
- Connect the luminaire to the supply cable using the wire nuts supplied. Any joint must be dry and water tight or warranty will be void. **NOTE:** The orange and grey wires are for optional PWM digital dimming using 0-10 V.
- Switch on and check each luminaire is operating.



If dimming is not required, do not connect the orange and grey wires. In all cases they are to be sealed and kept dry. Failure to do so may result in the intelligent driver dimming the luminaire due to a voltage differential between the two conductors.

- Press LS9404LED fully into mounting clip.

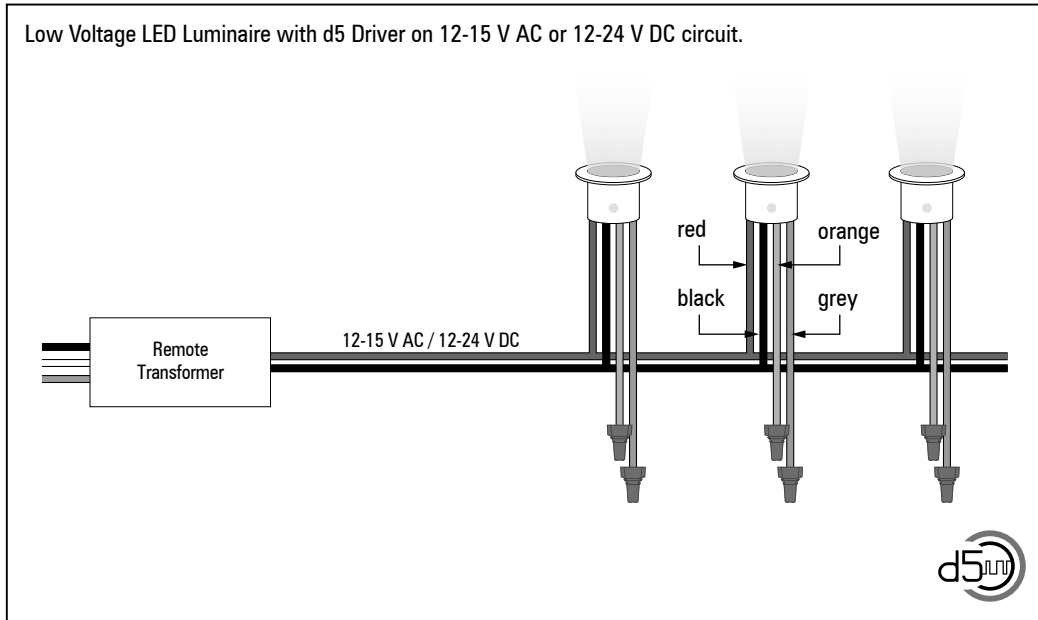


Should you experience any difficulty, please contact Lumascope directly: phone (866) 695-5862 or email info@lumascope.com

IF IN DOUBT, PLEASE CALL

www.lumascope.com

Wiring for Non-Dimming Installations



NOTE: The above diagram is intended to show electrical pathways between luminaires and ancillary devices. This diagram is not intended to show type or color of cord/wire, wire gauge or approved use of the cord/wire supplied with luminaires.

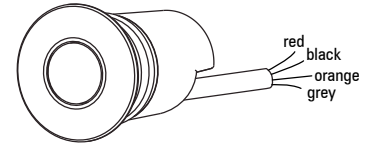
Consult the luminaire-specific cutsheet or the factory for detailed specifications.

IMPORTANT: For instructions on how to fine tune the brightness of the luminaire, refer to instruction sheet IN0059US "How to adjust the brightness for your d5 equipped luminaire". Please note, this capability only applies for luminaires not connected to any other control signal.

Wiring Polarity

red	V+
black	V-
orange	DIM+ (connection optional)
grey	DIM- (connection optional)

NOTE: Connect dimming wires only if needed. Otherwise isolate.



Cord 20 gauge (0.5 mm²)

Wiring for Dimming Configurations

Please refer to the appropriate wiring diagram for information on required system components and connectors.

Dimmable Wiring Diagram Reference

Input Voltage	LED Color	Control Type	Wiring Diagram
13-DIM	Single Color	PWM	2,3,4

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