

## LS9401LED

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

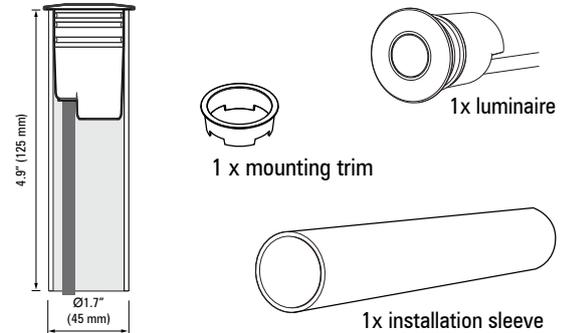
**CAUTION**

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



1. Luminaire is supplied with PVC mounting sleeve and a PVC mounting trim. The luminaire can be used with or without this assembly. This is intended to provide flexibility for custom installations and it is up to the installer to decide the best way to install the luminaire.

**NOTE:** The LS940LED series has systems for pre-installation, recessed, underwater and spike mount.

Install the sleeve; using a flexible saw blade cut sleeve flush with installation surface. Secure mounting ring to Sleeve using PVC glue before installing luminaire.

If the luminaire is to be used without the tube, the luminaire will drop straight into a 1.54" (39 mm) hole. It is suggested that silicone (neutral cure) is used to retain the luminaire.

2. Use a Lumascope supplied 24 V DC ripple free power supply or Lumascope magnetic transformer, locate centrally in relation to the luminaires.

**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.

3. Mark actual locations of luminaires to be installed. Calculate the distances, wire gauge and power supply sizes. **NOTE:** If dimming is required 4 wires must be run. 18 AWG (1 mm) cable is adequate for the dimming signal.

4. Connect the luminaire and the supply cable using the wire nuts supplied. Any joint must be dry and water tight or warranty will be void.

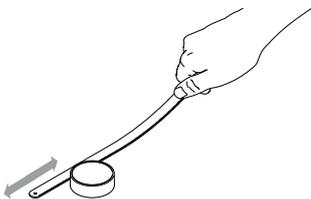
**NOTE:** The orange and grey wires are for optional PWM digital dimming using 0-10 V.



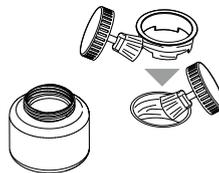
If dimming is not required, do not connect the orange and grey wires. In all cases they are to be sealed and kept dry. Failure to do so may result in the intelligent driver dimming the luminaire due to a voltage differential between the two conductors.

**SLEEVE INSTALLATION**

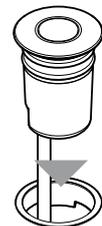
- A. Once surface is completely installed, (including tiling, or any other finishing), trim protruding niche throat flush to surface. Remove any burrs from inside niche throat.



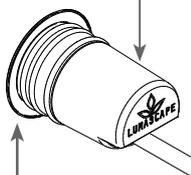
- B. Using PVC Primer and cement, glue mounting trim into niche throat. Ensure trim sits onto and level with finished surface. Allow to fully cure as recommended by PVC cement suppliers instructions (typically 24 hours).



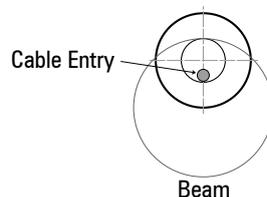
- C. Draw supplied cable back to power supply and test. Press LS9401LED fully into niche.

**IMPORTANT**

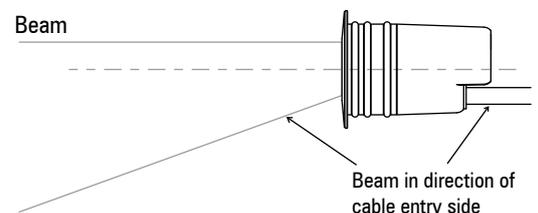
Plastic component is NOT load bearing.



When luminaire (e.g. LS9401LED-#-W) is fitted with a wall wash option, it will direct the beam towards the cable entry side of the luminaire. Align with cable entry side towards target.



Aiming Example: to direct the beam to wards the floor, in a wall mount application. The cable entry should be at the bottom.

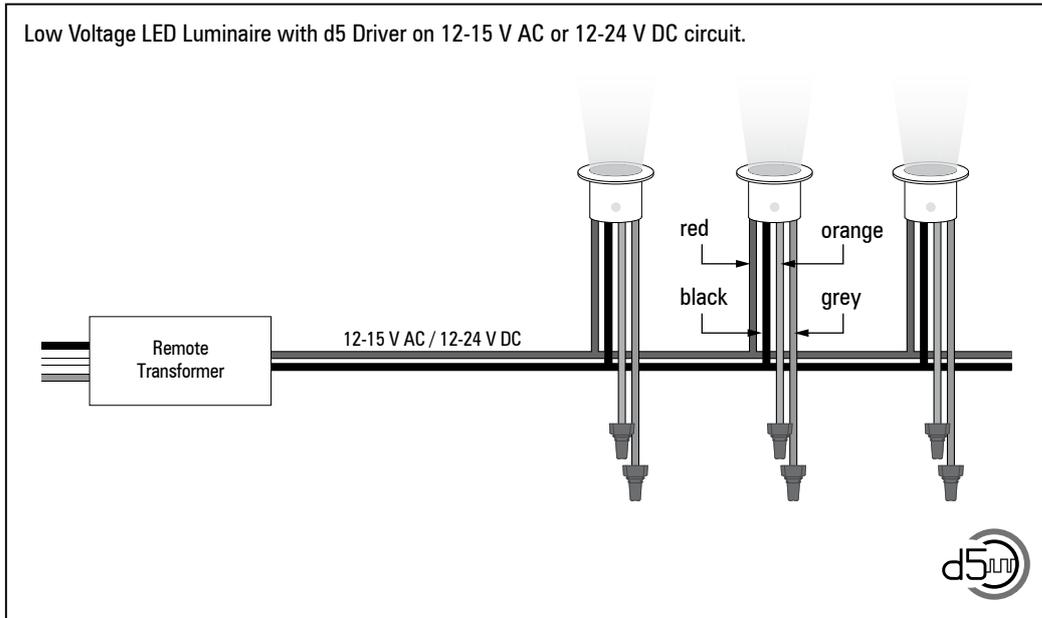


Should you experience any difficulty, please contact Lumascope directly: phone (866) 695-5862 or email [info@lumascope.com](mailto:info@lumascope.com)

IF IN DOUBT, PLEASE CALL

[www.lumascope.com](http://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.

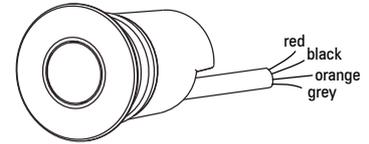
**Consult the luminaire-specific cutsheet or the factory for detailed specifications.**

**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 mm<sup>2</sup>)

## 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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