Centria CE2 LS432LED

INSTALLATION INSTRUCTIONS
GROUND MOUNT
LED SPOTLIGHT

LUMASCAPE
USA I Australia I Asia I Middle East I Europe

A.C.N. 0105 72 773

Intertek

IP66
IP67

DANGER

ISOLATE LUMINAIRE FROM POWER

Failure to isolate power supply before installation or maintenance may result in fire, serious injury, electric shock, death and may damage the luminaire.

Warranty Void if not installed as per installation instructions and in compliance with the local electrical code.

READ ALL SAFETY INSTRUCTIONS FIRST

- Follow instructions carefully; failure to do so will void warranty.
- Ensure installation complies with local laws and applicable standards.
- Input voltage range 12-15V, 60Hz or 24 V DC / 110-277 V AC 50/60Hz
- It is strongly recommended to use Lumascape power supply.
- Luminaires optical assembly is factory sealed and opening will void warranty.
- All connections must be kept dry; failure to do so may result in product reliability issues.
- Use of an electronic transformer will permanently damage luminaire.
- Never make connections whilst the power is connected.

LUMASCAPE ASIA PACIFIC Brisbane Technology Park, 18 Brandl Street, Eight Mile Plains, QLD 4113, Australia
Phone +61 7 3854 5000 I Fax +61 7 3854 5001 I Email: sales@lumascape.com.au I www.lumacape.com

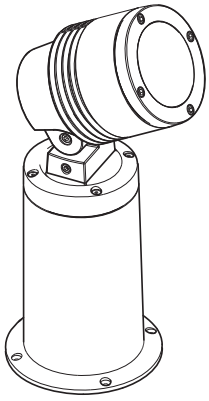
LUMASCAPE NORTH AMERICA 1300 Industrial Road, Unit #19, San Carlos, CA 94070, USA
Phone +1 650 595 5862 I Fax +1 650 595 5820 I Email: info@lumascape.com I www.lumacape.com

Wiring Polarity - Input Voltage range 12-15V, 60Hz / 12-24V DC or 120-277V AC, 50/60Hz

Ensure installation complies with local laws and applicable standards.

Intertek

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

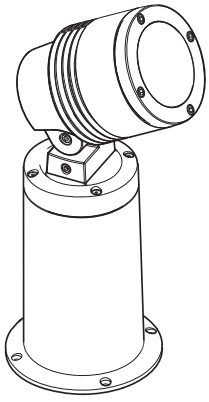


Color Changing - Integral PWM Driver

12-15V, 60Hz or 12-24V DC

Wiring Details

UL / ETL Color Code	Designation
White	12-15V AC1 or +24V DC
Black	12-15V AC2 or -0V DC
Orange	PWM Common +
Red	PWM Red -
Green	PWM Green -
Blue	PWM Blue -



Static Color - Dimming Integral PWM Driver

12-15V, 60Hz or 12-24V DC

Wiring Details

UL / ETL Color Code	Designation
White	12-15V AC1 or +24V DC
Black	12-15V AC2 or -0V DC
Purple	PWM Common +
Grey	PWM -

Static Color - Dimming Integral 0-10V Driver

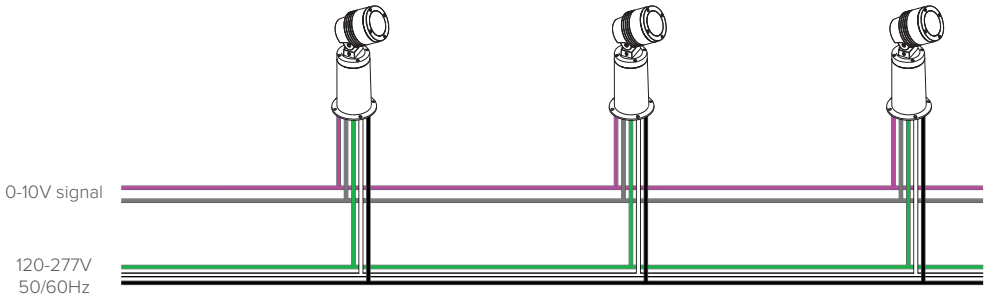
120-277V, 50/60Hz

Wiring Details

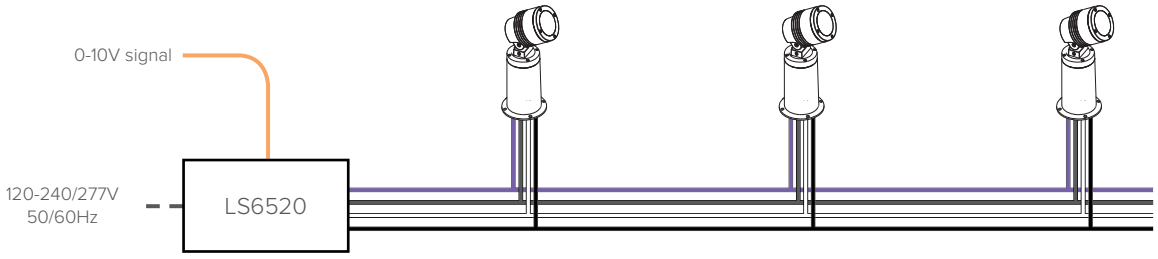
UL / ETL Color Code	Designation
White	Neutral
Black	Active
Green	Earth / Ground
Purple	0-10V +
Grey	0-10V -

Wiring Diagram - Static Colour (0-10V) for Line Voltage LED Luminaires

Please note: The use of a GFCI may be required. Consult local wiring rules.



Wiring Diagram - Static Colour (0-10V) on 24V DC Circuit



Maximum Circuit Load

Compatibility with each transformer or power supply is indicated by the value shown in the table, representing the maximum number of luminaires that may be powered from each transformer or power supply. Please note, this does not take into consideration voltage drop or ampacity limits of the branch circuit. In addition, dimming circuit total wire length must be kept under 328' (100m). For assistance, please consult factory.

	Transformer / Power Supplies									
	LS-TWM-1-300	LSTDB-1-300	LSLED-24V75W277	LSLED-24V96WD277	LSLED-24V 120 / 240 / 320 P09			LS6520		
Input Voltage	120V, 60Hz	120V, 50/60Hz	120-277V 50/60Hz	120-277V 50/60Hz	120-277V 50/60Hz			120-277V, 50/60Hz		
Output Voltage	12/13/14V, 60Hz	12/13/14V, 60Hz	24V DC	24V DC	24V DC			24V DC		
Wattage	1 x 300W circuit	300W	75W	96W	120W	240W	320W	120W	240W	320W
LS432LED, 27W**	7	7	1	3	3	7	10	3	7	10

** Quantities apply to dimming only circuits - for non dimming circuits, reduce quantities by 25%

NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary device. These diagrams are not intended to show type or colour of cord / wire, luminaire input voltage rating, wire gauge or approved use of the cord / wire supplied with luminaires.

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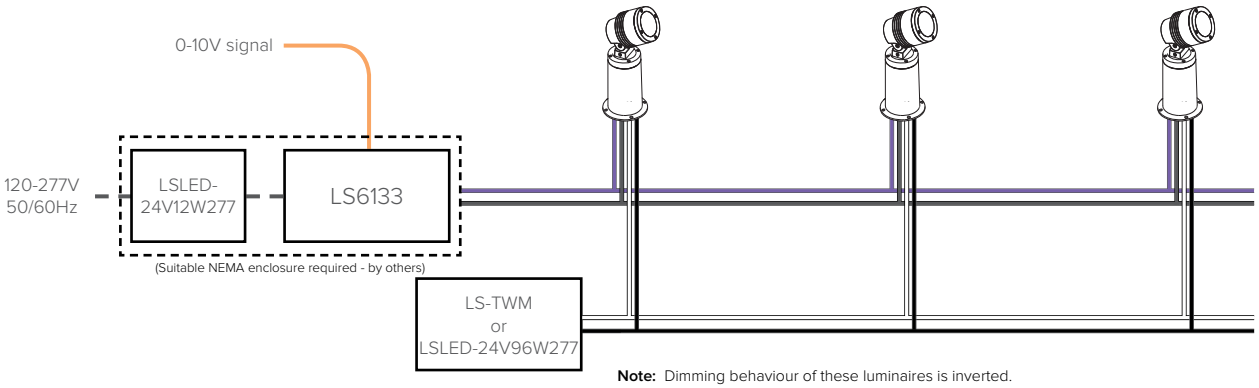
Wiring Diagram - Static Colour (0-10V) for 12-15V AC or 24V DC Circuit

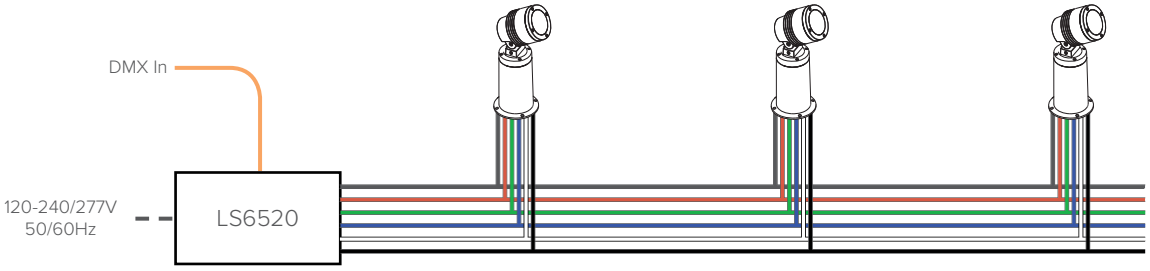


Note: Dimming behaviour of these luminaires is inverted.

Control Protocols

0-10V	For 0-10V control signal, use LS6133 0-10V to PWM converter

Wiring Diagram - Dynamic Colour (DMX) on 24V DC Circuit



Maximum Circuit Load

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	Transformer / Power Supplies									
	LS-TWM-1-300	LSTDB-1-300	LSLED-24V75W277	LSLED-24V96WD277	LSLED-24V 120 / 240 / 320 P09			LS6520		
Input Voltage	120V, 60Hz	120V, 50/60Hz	120-277V 50/60Hz	120-277V 50/60Hz	120-277V 50/60Hz			120-277V, 50/60Hz		
Output Voltage	12/13/14V, 60Hz	12/13/14V, 60Hz	24V DC	24V DC	24V DC			24V DC		
Wattage	1 x 300W circuit	300W	75W	96W	120W	240W	320W	120W	240W	320W
LS432LED, 27W**	7	7	1	3	3	7	10	3	7	10

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NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary device. These diagrams are not intended to show type or colour of cord / wire, luminaire input voltage rating, wire gauge or approved use of the cord / wire supplied with luminaires.

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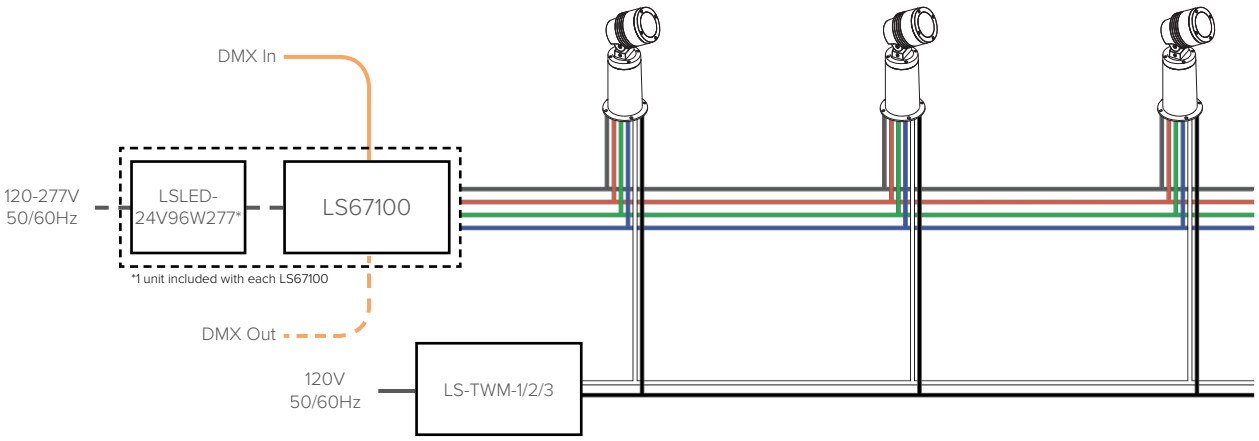
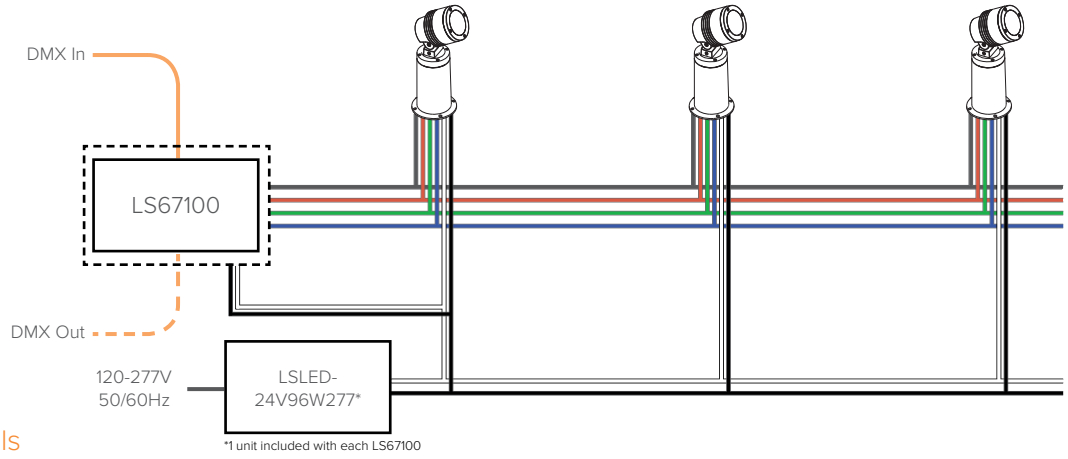
Wiring Diagram - Dynamic Colour (DMX) for 12-15V AC Circuit



Wiring Diagram - Dynamic Colour (DMX) for 24V DC Circuit



Control Protocols

DMX — For DMX control signal, use LS67100 DMX to PWM converter

Maximum Circuit Load

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	Transformer / Power Supplies									
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Input Voltage	120V, 60Hz	120V, 50/60Hz	120-277V 50/60Hz	120-277V 50/60Hz	120-277V 50/60Hz			120-277V, 50/60Hz		
Output Voltage	12/13/14V, 60Hz	12/13/14V, 60Hz	24V DC	24V DC	24V DC			24V DC		
Wattage	1 x 300W circuit	300W	75W	96W	120W	240W	320W	120W	240W	320W
LS432LED, 27W**	7	7	1	3	3	7	10	3	7	10

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Installation Preparation

IP66/67

WARNING

- Luminaires can become very hot. Use discretion in placement.
- Keep electronics free from dirt and moisture.
- No power tools to be used on luminaire.
- Do not allow soil, mulch or foreign material to build up around the luminaire.
- Do not hose or pressure clean.
- Do not use silicone on outside surface.
- Do not operate luminaire with missing or damaged components.
- Keep away from flammable material.

Installation

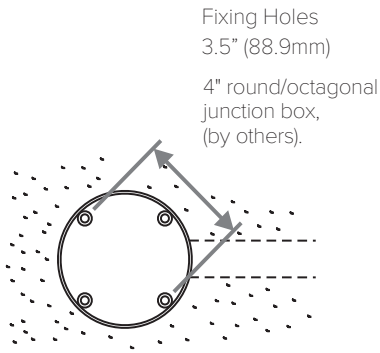
North America

NOTE: Generally 24 V DC ripple-free power supplies should be installed in a well-ventilated, fully undercover environment. DC power supplies are more efficient than AC transformers. Under no circumstances can an 'electronic' transformer be used as this may damage the product.

Step 1

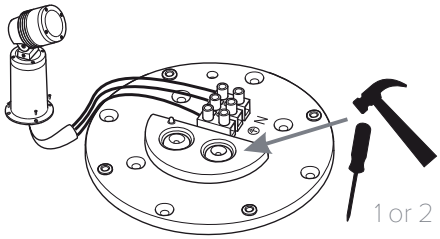
Run supply wires to the junction box on which the luminaire is to be installed ensuring compliance with local wiring rules.

Note: Always check luminaire lable for correct supply details and lamp type if applicable.



Step 2

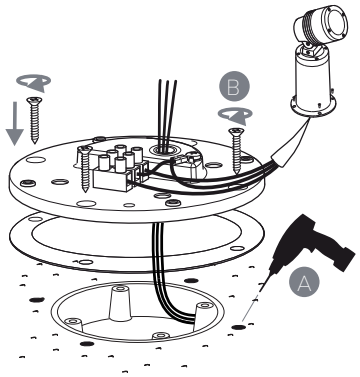
Depending on your requirements, punch or drill out one or two holes in the base.



Line voltage, non dimmable version shown.

Step 3

Drill mounting holes for luminaire. Feed the wires through the hole. Screw down luminaire base. Ensure gasket seal in inserted between surface and luminaire base.



Line voltage, non dimmable version shown.

Power supply must be isolated prior to connection or disconnection of cables. Failure to do so will result in damage to the luminaire components.

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Installation cont....

IP66/67

Step 4

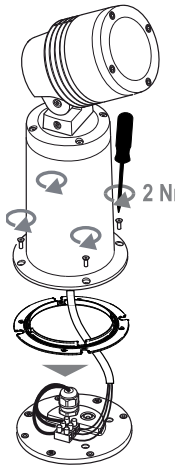
Strip and connect the cable cores to the terminal blocks. Ensure correct polarity is observed for the low voltage (24V DC luminaire).

For details on data connection (required for RGB and dimming) refer to Wiring Polarity table.

Step 5

Screw the luminaire to the base ensuring gasket seal is firmly in place between the two components.

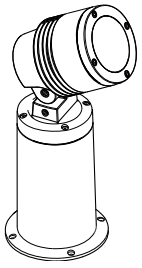
IMPORTANT: Do not use power tools. Ensure correct torque is applied (2 Nm)



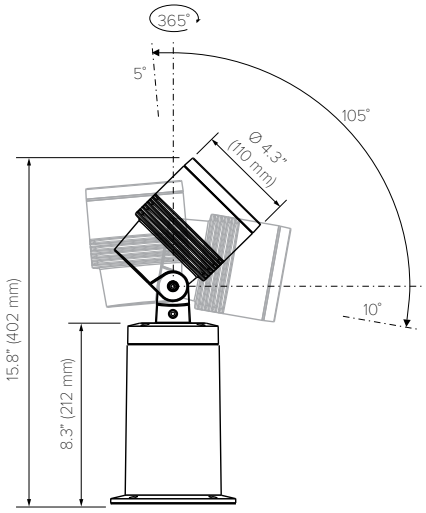
Step 6

Turn on power to test functionality of the luminaire.

IMPORTANT: It is the installers responsibility to ensure the luminaire is adequately sealed for its operating environment during installation.

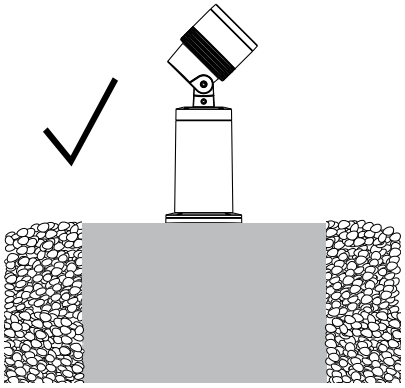


Finished Installation

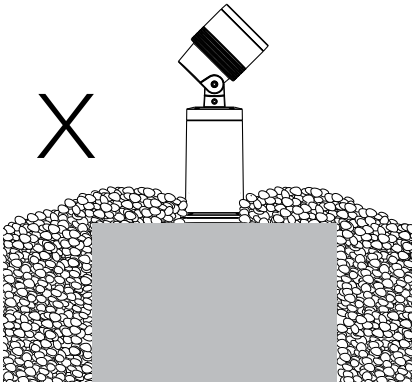


Do not allow soil, fill or any material to build up around the luminaire. Warranty will be void.

Correct Installation



Incorrect Installation. Void warranty.



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