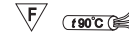




LUMASCAPE
USA
INC.

MODELS LS294A Firefly
12V - Ls1142 17W lamp



A.C.N. 010 572 773



IMPORTANT INSTRUCTIONS

For Installation: LS294A Firefly

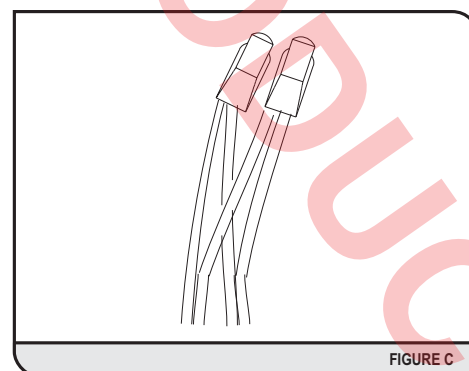
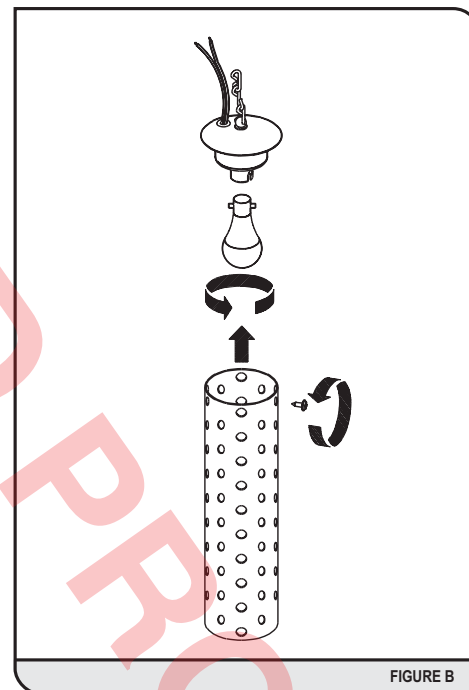
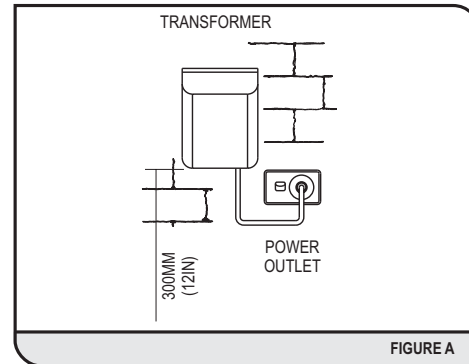
Warning: The Luminaire should only be used complete with its protective shield (cover)

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1 INSTALLATION

1. Select a suitable 12 volt isolating type transformer and locate centrally in relation to fixtures (refer Figure A & Example 2, below).
2. Mark actual locations of fixtures to be installed. Calculate voltage drop on each run of cable (refer voltage drop section).
3. Lay cable from transformer to each fixture (refer voltage drop section).
4. Select means by which to mount the supplied rear chain of fitting to the ceiling.
5. Make sure supply cable is inserted through a hole in the mounting surface. Split supply cable and fitting cable, strip ends so that the core is exposed approximately 20mm (3/4 inch) (refer Figure B).
6. Do not trim end of light fixtures wires. The full length of these wires is required for easy fixture removal.
7. Note the cable is indexed (i.e. one side is marked the other is not). Gather together indexed leg/s and one of the fixture wires. Very lightly twist the strands together. Then fit the yellow scotch lock connector applying pressure as you twist it on. Keep twisting until very tight. Repeat for remaining wires (refer Figure C).
8. Repeat steps 4 to 7 for each light fixture.
9. Connect light cables to transformer making sure indexed legs are grouped with indexed and non-indexed with non-indexed legs.
10. Plug transformer into power point, switch on and check each fixture is operating.
11. At night adjust and aim your fixtures to achieve the desired effect.

Should you experience any difficulty please contact your supplier.



WARNING - UL Product Only

Overcurrent protection for the secondary circuit must be provided at the supply transformer in accordance with the National Electric Code.

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IMPORTANT SAFETY INSTRUCTIONS

WARNING - To reduce the risk of FIRE or INJURY:

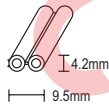
1. Luminaires and transformers to be installed by qualified installers only.
2. Luminaires to be used for intended purpose only. e.g Wall Mount fittings must be wall mounted.
3. Luminaires can become very hot. Use discretion in placement.
4. Do not touch hot lens, guard, or enclosure.
5. CAUTION - HOT SURFACE. Keep away from curtains and other combustible material.
6. Turn Off/Unplug and allow to cool before replacing lamp.
7. Keep lamp away from materials that may burn.
8. Never touch lamp with bare fingers. Oil from skin may damage lamp. Hold lamp with soft cloth when installing or replacing.
9. Do not operate the luminaires with a missing or damaged parts.
10. Replace any cracked protective shield
11. Use only lamp type, voltage and wattage as specified by LumascapE on the product label.
12. Use only genuine LumascapE parts to replace damaged or missing components.
13. Luminaires supplied with Loctite Silver Grade Anti Seize lubricant on threads. Reapply if needed.
14. Refer to instructions for installation and operating requirements.
15. Ensure installation complies with local regulations

SAVE THESE INSTRUCTIONS.



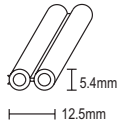
CABLES

3.3mm² Figure 8 PVC Cable



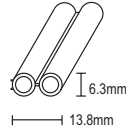
LS604

6mm² Figure 8 PVC Cable



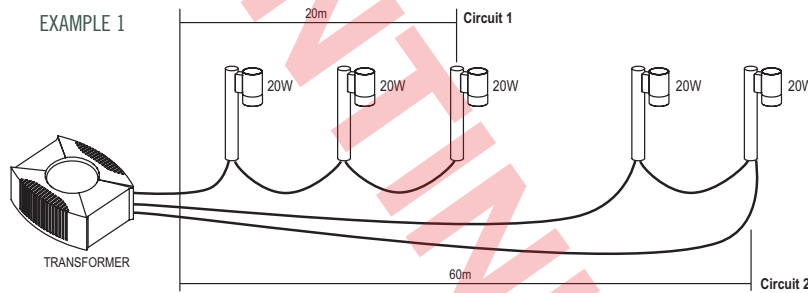
LS604-6

10mm² Figure 8 PVC Cable

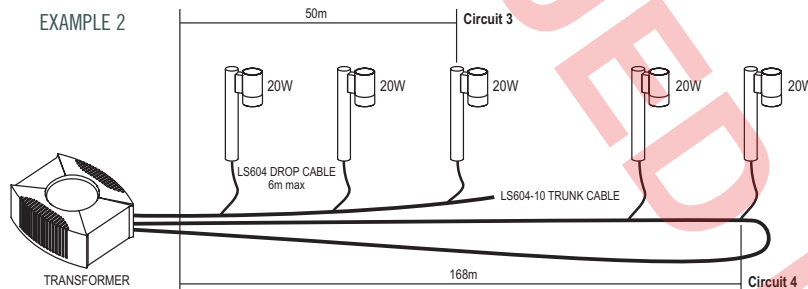


LS604-10

EXAMPLE 1



EXAMPLE 2



CABLE VOLTAGE DROP

Excessive voltage drop causes lamps to have a low light output. The following charts and illustrations apply only to Lumascope supplied cable. The distance and wattage shown are maximum and should not be exceeded.

EXAMPLE 1

Using drop cable only

This example shows the correct way to install Lumascope light luminaires using LS604 (3.3mm²) drop cable. The total load on Circuit 1 is 60W over 20 metres as allowed in the Voltage Drop table. The load on Circuit 2 is 40W and by using a doubled cable this circuit can be 60 metres.

EXAMPLE 2

Using trunk and drop cable only

This example shows the correct way to install Lumascope luminaires using LS604-10 (10mm²) trunk cable. The total load on Circuit 3 is 60W over 50 metres which is shorter than the 54 metres allowed in the Voltage Drop table. The load on Circuit 4 is 40W and using a doubled cable allows the circuit to be up to 168 metres long.

TABLE: VOLTAGE DROP

LOAD WATTAGE	DROP CABLE 3.3mm ² LS604		TRUNK CABLE 6mm ² LS604-6		TRUNK CABLE 10mm ² LS604-10	
	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
20	70m	140m	105m	210m	140m	280m
40	30m	60m	55m	110m	84m	168m
50	25m	50m	44m	88m	62m	124m
60	20m	40m	36m	72m	54m	108m
70	15m	30m	30m	60m	50m	100m
80	14m	28m	27m	54m	46m	92m
90	13m	26m	24m	48m	42m	84m
100	12m	24m	21m	41m	36m	72m
120	10m	20m	18m	36m	30m	60m
150	7m	14m	15m	30m	26m	52m
200	5m	10m	11m	22m	20m	40m
250	4m	8m	9m	18m	17m	34m

CAUTION

The distances and wattages shown are maximum and should not be exceeded.