

# IMPORTANT INSTRUCTIONS

For Installation 381A Melia II

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

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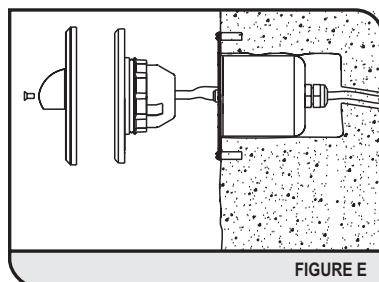
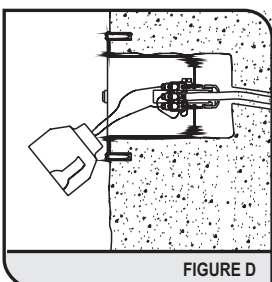
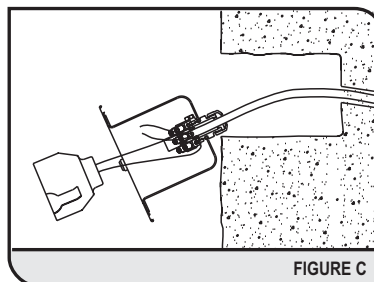
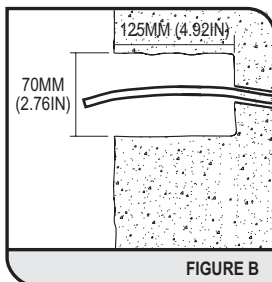
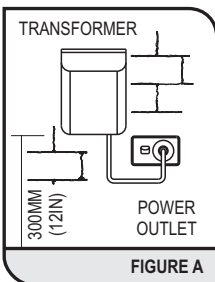
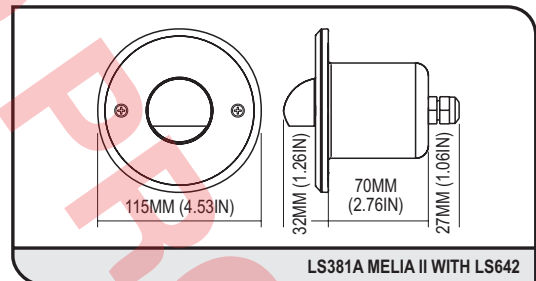
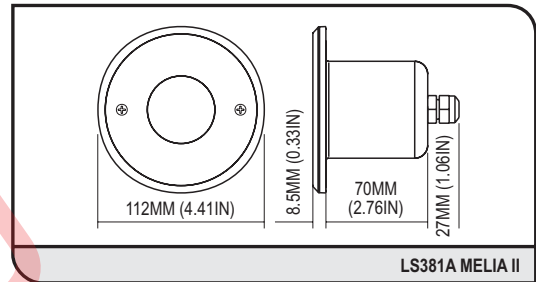
**Note:** To achieve IP65 rating, use round cable (size 5-10mm) to suit entry gland supplied with fixture.

## 1 INSTALLATION

1. Select a suitable 12 volt isolating type transformer and locate centrally in relation to the fixtures (refer Fig. A).
2. Mark final locations of fixtures to be installed. Calculate voltage drop on each run of cable. (Refer voltage drop section of this document.)
3. Lay cable from transformer to each fixture (refer voltage drop section).  
Note: The cable access hole is required to angle downward from the fixture, at a minimum 20° (refer Fig. B).
4. If mounting in gyprock, brickwork or similar, cut 70mm (2.76in) hole, with 125mm (4.92in) clearance from mounting surface (Fig. B). Locate body mounting screws on fixing surface by inserting LS381A body into cavity aligning mounting holes, (non-threaded) vertically, mark hole positions and pre-drill. If mounting in formed concrete, cast a 70mm (2.76in) hole by 125mm (4.92in) deep, for the fixture. Locate body mounting screws on fixing surface by inserting LS381A body into cavity aligning mounting holes, (non-threaded) vertically, mark hole positions and pre-drill.  
Note: Ensure mounting surface is flat and free from debris.
5. Strip outer insulation of supply cable to 50mm (1.97in) and strip ends of internal insulation to approximately 8mm. Insert cable into fitting through cable gland in base (Fig C.) and connect to terminal block. Feed excess cable back through cable gland in base and tighten gland. Gland can accept cable within a 5-10mm (0.2-0.4in) round range.  
Note: Ensure only round supply cable is used and cable gland seals on the outer insulation to ensure maximum IP rating.
5. Alternative for UL Fixture ONLY  
Connect the fitting to the Low Voltage circuit using V90 cable in conduit. Attach to fixture via 1/2" NPT adaptor supplied. Strip outer insulation of supply cable to 50mm (2"), and internal insulation 6mm (1/4") from end.
6. Mount fixture body to wall. Connect cable to the two free terminals in the terminal block (Fig D.)
7. Insert lamp (20W Max.) into lampholder assembly.
8. Repeat steps 4 to 7 for each light fixture.
9. Connect fixture supply cables to transformer.
10. Energize transformer, switch on and check each fixture is operating.  
Allow fixtures to run for approximately 10 minutes.
11. Insert lampholder assembly into lid.
12. Reassemble lid and hood assembly with body on each fixture (refer Fig.E)

## 2 RELAMPING

1. Ensure power is switched off and remove lid and hood assembly from fixture.
2. Insert a small screw driver between the lampholder and inside wall of lid. Gently twist screw driver to break seal between components, (You may need to do this at several points around the lampholder).
3. Gently pull the lampholder from lid assembly and replace lamp. Ensure replacement lamp is firmly inserted.
4. Repeat steps 10 to 12 for installation, to re-assemble.



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

## 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 Lumascope on the product label.
12. Use only genuine Lumascope 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.

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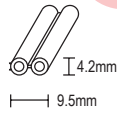
LIGHTING PARTNERS AUSTRALIA  
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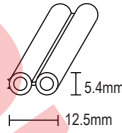
### CABLES

3.3mm<sup>2</sup> Figure 8 PVC Cable



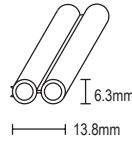
LS604

6mm<sup>2</sup> Figure 8 PVC Cable



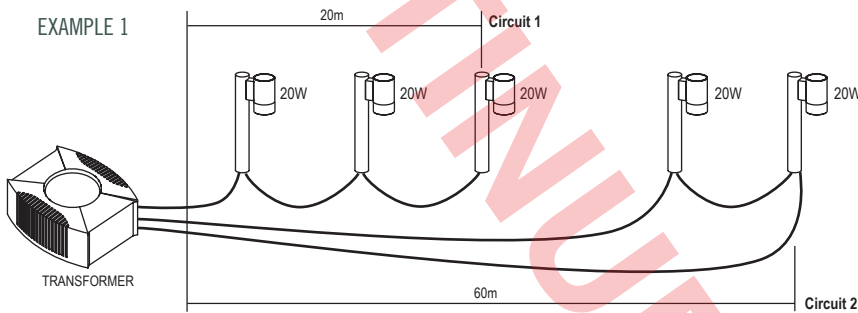
LS604-6

10mm<sup>2</sup> Figure 8 PVC Cable

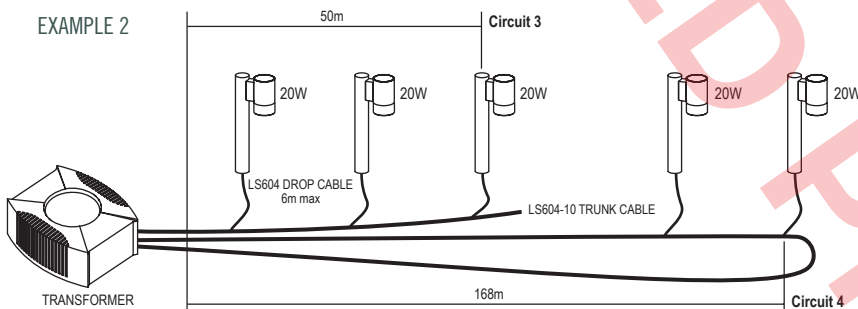


LS604-10

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 (3.3mm<sup>2</sup>) 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 (10mm<sup>2</sup>) 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		TRUNK CABLE			
	3.3mm <sup>2</sup> LS604		6mm <sup>2</sup> LS604-6		10mm <sup>2</sup> 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.