

A IMPORTANT INSTRUCTIONS

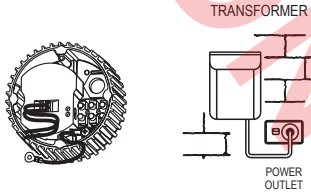
For Installation LS464 and LSTE6

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

Lumascap Lighting Industries Pty Ltd
38-44 Enterprise Street, Cleveland, QLD 4163, Australia
PO Box 1875, Cleveland D.C., QLD 4163, Australia
T 07 3286 2299
F 07 3286 6599
E sales@lumascap.com.au
W www.lumascap.com.au

**WARNING: DO NOT USE POWER TOOLS TO ASSEMBLE OR FASTEN.
DO NOT REMOVE CABLE OR GLAND FROM FITTING**

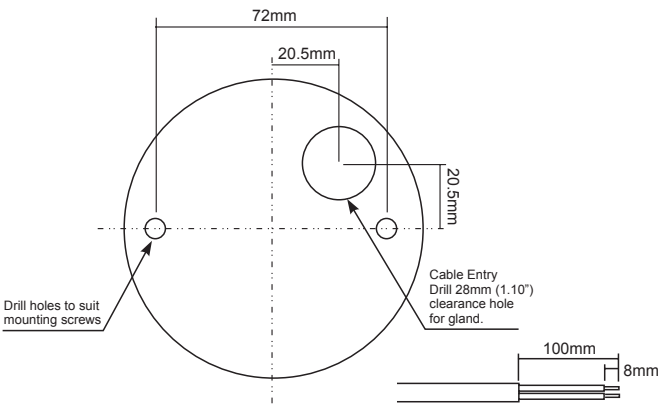
1 A



TRANSFORMER
POWER OUTLET

If using LSTE6 transformer follow instructions supplied with LSTE6 then go to step 2 - Otherwise... Select a suitable 12V isolating type transformer and locate centrally in relation to fixtures. Run cables. Check cable sizes and Voltage Drop on chart over. Refer warning over.

1 B

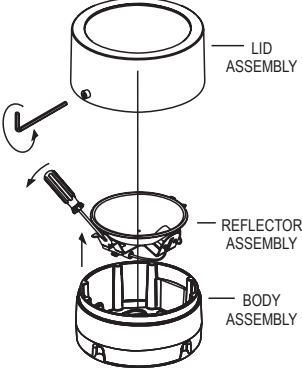


72mm
20.5mm
20.5mm
100mm
8mm

Drill holes to suit mounting screws
Cable Entry Drill 28mm (1.10") clearance hole for gland.

Mark locations of fixtures. Mark and drill/cast holes. Run supply cable through large hole. Strip supply cable as above. See attached full sized template

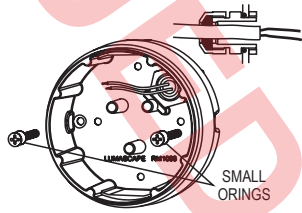
2



LID ASSEMBLY
REFLECTOR ASSEMBLY
BODY ASSEMBLY

Unscrew grub screw and remove lid assembly. Remove reflector assembly by gently levering tab between bracket claws as shown.

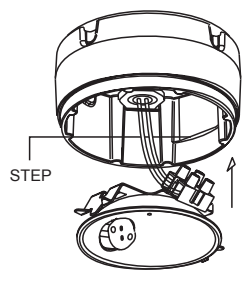
3



LUMASCAPE REFLECTOR
SMALL ORINGS

For IP68 installation: Fit gland to fixture and insert cable into gland and tighten. Secure fixture with screws and orings supplied - do not use power tools - screw by hand, to prevent oring/gasket damage.
Note: Ensure gland is firmly tightened and sealing areas are free from debris. Check that oring is seated correctly. Use only round supply cable and ensure that gland seals on outer insulation.

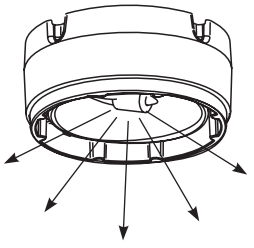
4



STEP

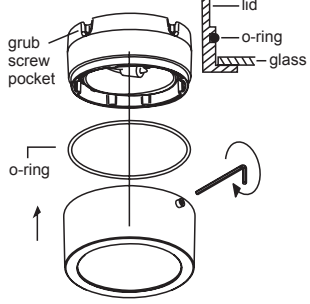
Terminate supply cable into terminal block on reflector assembly. Gently push reflector assembly into body ensuring bracket claws are resting on the steps inside the body.

5



Warning lamp is fragile take care when installing - serious injury can result if lamp is crushed. Insert lamp and test. Avoid contact with bare lamp. Avoid any contact with inside face of reflector.

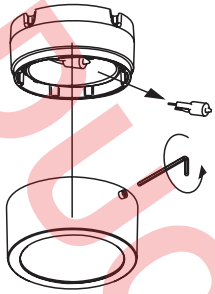
6



grub screw pocket
o-ring
lid
o-ring
glass

Check and clean all sealing areas. Ensure Oring is in groove in lid. Re-Seal fixture. Ensure that lid is pushed up as far as possible so that oring seals. Grub screws should be flush if fixture is assembled correctly.

RELAMPING



Isolate fixture from power. Unscrew grub screw and remove lid assembly. Remove lamp. To reassemble follow instructions 5 and 6.

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.

LUMASCOPE
 HEAD OFFICE - QLD
 Tel (07) 3286 2299
 Fax (07) 3286 6599

LUMASCOPE
 SYDNEY - NSW
 Tel (02) 9519 6860
 Fax (02) 9519 8834

LUMASCOPE
 MELBOURNE - VIC
 Tel (03) 9686 1900
 Fax (03) 9686 1700

LUMASCOPE USA INC.
 SAN FRANCISCO - CA
 Tel 1-(650)-595-5862
 Fax 1-(650) 595-5820

H.I. LIGHTING
 LUMASCOPE AGENT - WA
 Tel (08) 9321 5422
 Fax (08) 9321 5881

LIGHTING PARTNERS AUSTRALIA
 LUMASCOPE AGENT - SA
 Tel (08) 8232 0074
 Fax (08) 8232 0076

NQ LIGHTING
 LUMASCOPE AGENT - NTH QLD
 Tel (07) 4031 4490
 Fax (07) 4031 5933

ECC LIGHTING
 LUMASCOPE AGENT - NZ
 Tel (09) 379 9680
 Fax (09) 308 9328

B IMPORTANT INSTRUCTIONS

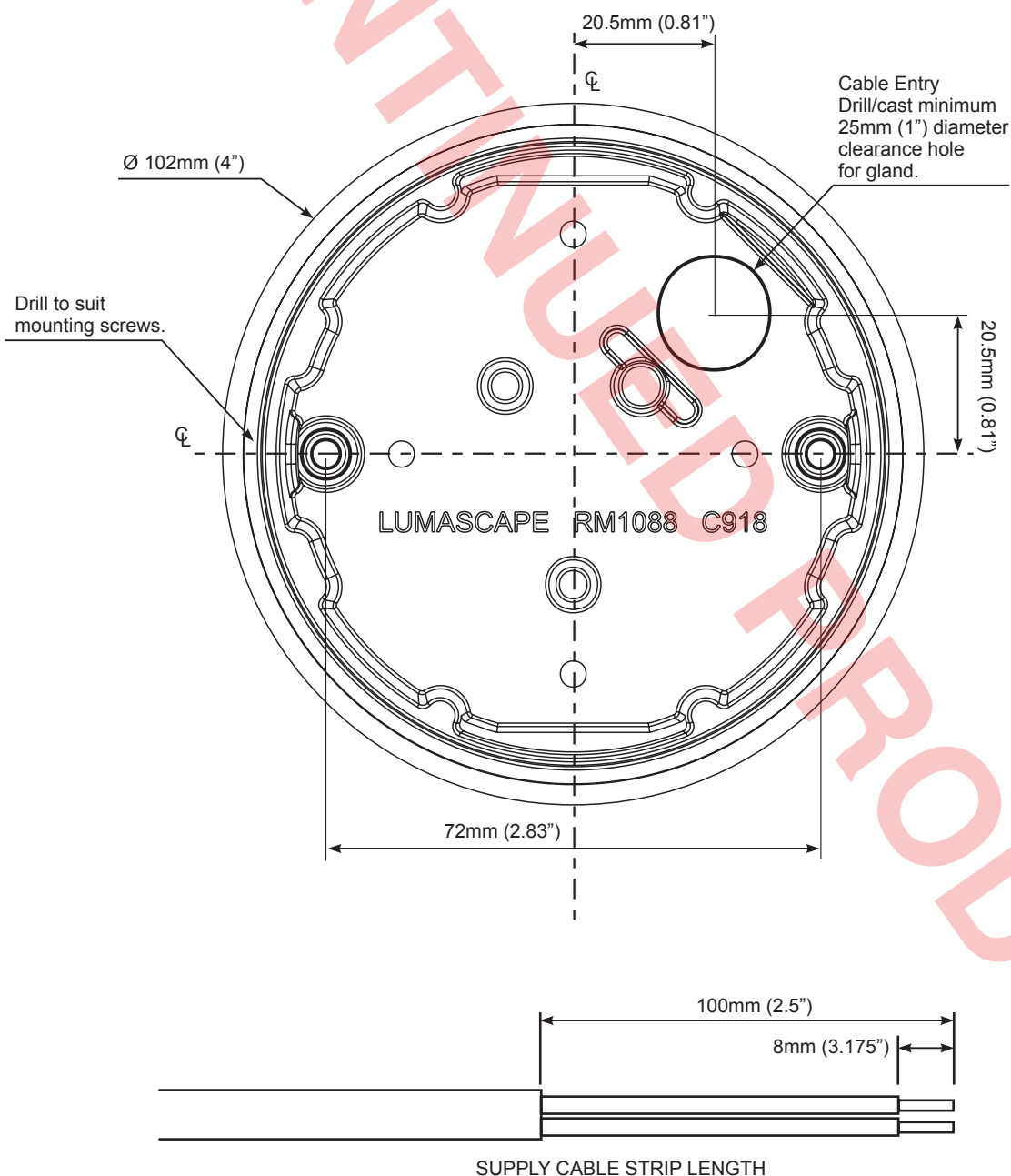
For Installation LS454A DOWNLIGHT

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

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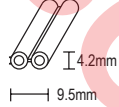
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Mounting Template, 1:1



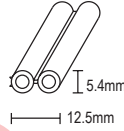
CABLES

3.3mm² Figure 8 PVC Cable



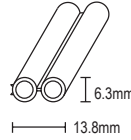
LS604

6mm² Figure 8 PVC Cable



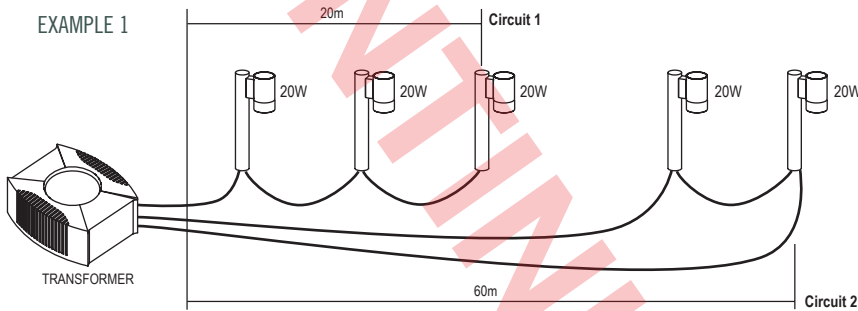
LS604-6

10mm² Figure 8 PVC Cable

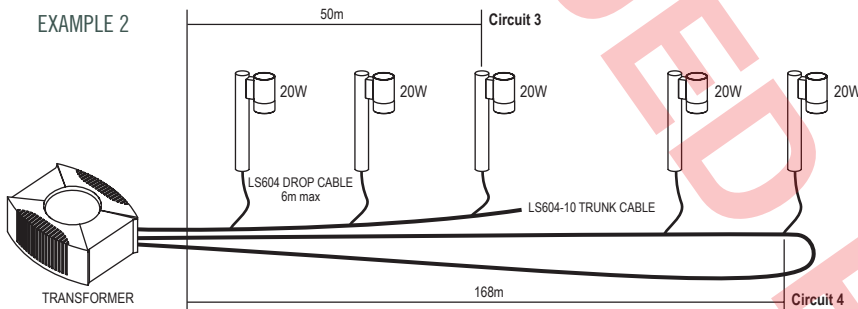


LS604-10

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		TRUNK CABLE			
	3.3mm ² LS604		6mm ² LS604-6		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.