



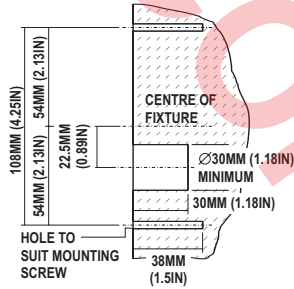
# IMPORTANT INSTRUCTIONS

## For Installation of LS371A-UL to Surface (For mounting to Junction Box see over)

**A**  
START  
HERE

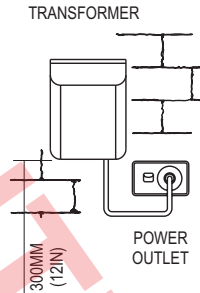
<b>MODELS</b>	LS371A		
	12V 20watt max. IP68 rated 1.5M Class 1		

**1**



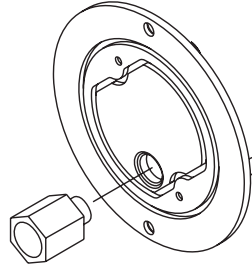
Mark locations of fixtures (refer voltage drop chart over). Mark and drill/cast holes.

**2**



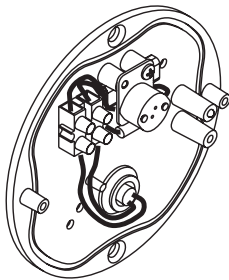
Select a suitable 12V isolating type transformer and locate central in relation to fixtures. Refer warning over.

**3**



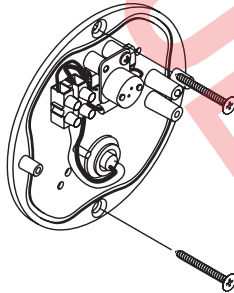
Remove lid from fixture and insert 1/2" NPT conduit adapter into base (optional, required for IP68 rating).

**4**



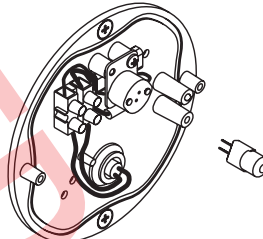
Push terminal block securely onto mounting posts and terminate cable in fixture.

**5**



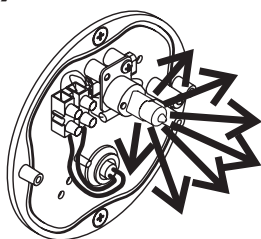
Screw base to mounting surface.

**6**



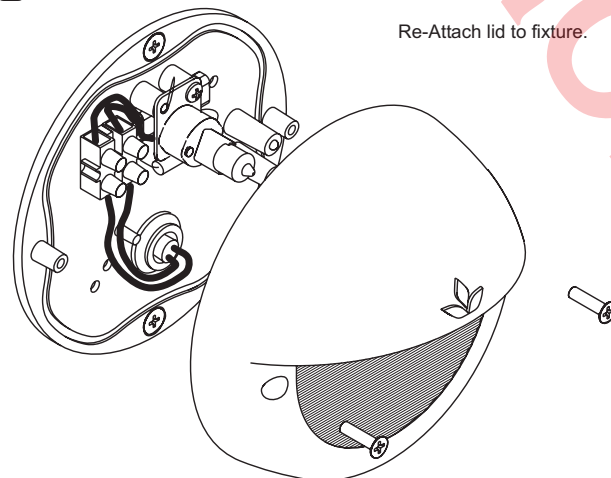
Insert G4 12V 20W Max lamp.

**7**



Test fixture.

**8**



Re-Attach lid to fixture.

**RELAMPING**  
Remove cover and re-lamp as per instructions 6,7,8.

  
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USA INC.

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(US & Canada)

 Important  
Information  
over page

# IMPORTANT INSTRUCTIONS

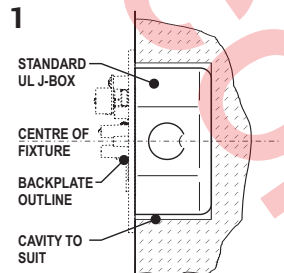
## For Installation LS371A-UL to Junction Box

# B

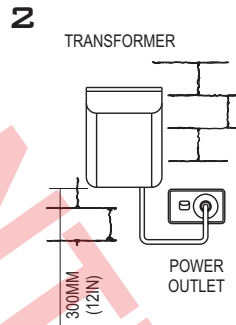
**MODELS** LS371A  
 12V 20watt max.  
 IP68 rated 1.5M Class 1

 **UL** US  
 LISTED  
 LOW VOLTAGE FIXTURE  
 1F30

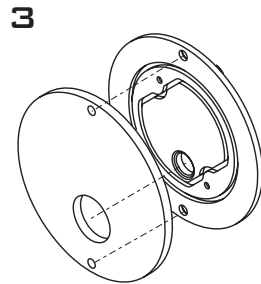
 90°  
 A.C.N. 010 572 773



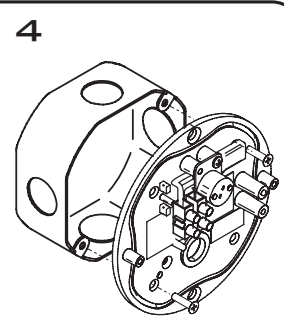
Mark locations of fixtures (refer voltage drop chart over). Mount standard wet location UL listed Junction box. (Check compatibility with fixture first.)



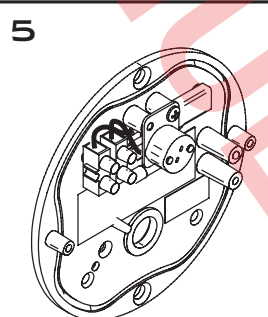
Select a suitable 12V isolating type transformer and locate central in relation to fixtures. Refer warning over.



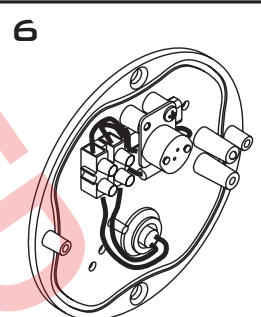
Remove lid from fixture and affix seal (supplied) to back of mounting plate as shown. Seal has an adhesive side.



Screw fixture backplate to Junction Box as shown.



Push terminal block securely onto mounting posts.



Terminate cable in fixture. Complete installation by following instructions 6 to 8 over.

### IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS

Lighted lamp is Hot!

**WARNING** - To reduce the risk of FIRE or INJURY:

1. Turn Off/Unplug and allow to cool before replacing lamp.
2. Lamp gets hot quickly! Contact only switch/plug when turning on.
3. Do not touch hot lens, guard, or enclosure.
4. Keep lamp away from materials that may burn.
5. Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp.
6. Do not operate the lighting fixture with a missing or damaged shield.

**SAVE THESE INSTRUCTIONS.**

#### Warning:

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



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# IMPORTANT INSTRUCTIONS

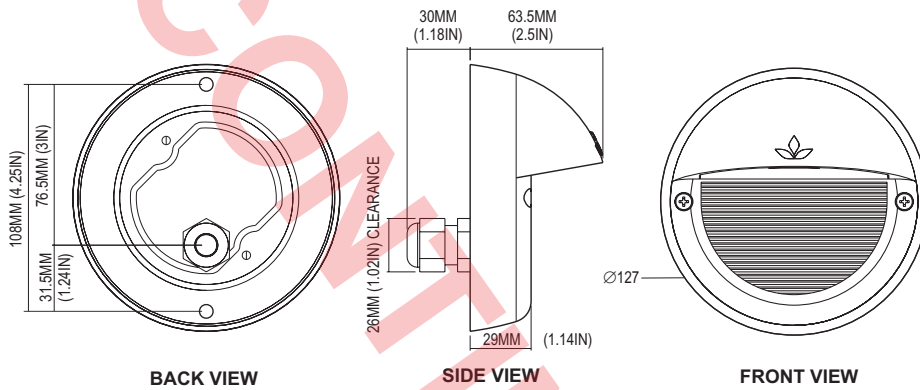
## Dimensional Details LS371A

MODELS LS371A

12V 20watt max.  
IP68 rated 1.5M Class 1

 **UL** **us**  
LISTED  
LOW VOLTAGE FIXTURE  
1F30

  
A.C.N. 010 572 773

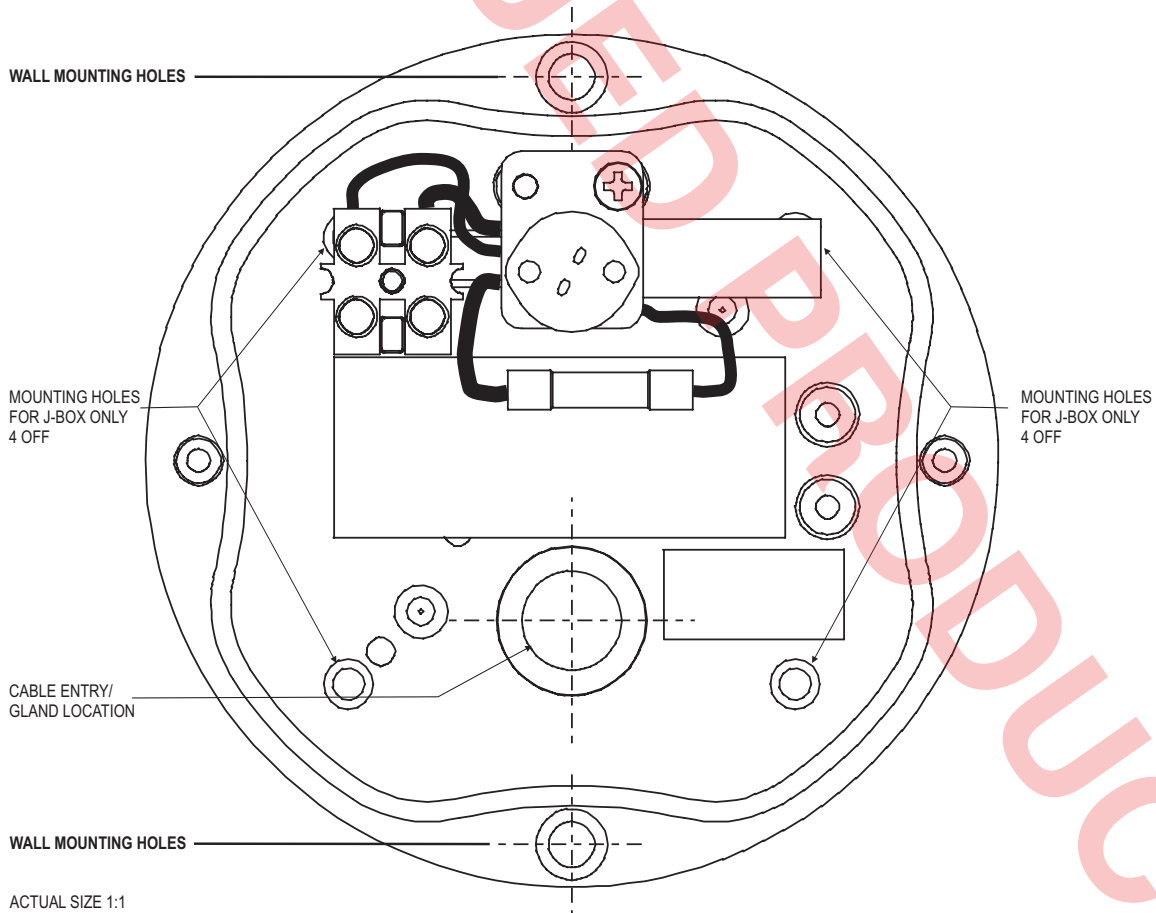


BACK VIEW

SIDE VIEW

FRONT VIEW

### DRILLING TEMPLATE



# VOLTAGE DROP CHARTS - 12 VOLT CABLE

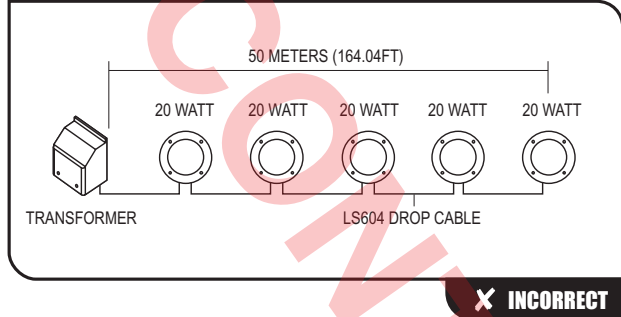
Note: The information below relates to Lumscape LS604 Direct Burial Cable only.

It is important that the Voltage Drop ( the amount of Voltage lost over a length of cable) is kept to a maximum 1 Volt (ie. the Voltage should not be less than 11 Volts at the fixture).

When using 6mm (0.23in) or 10mm (0.39in) trunk cable, the 3.3mm (0.13in) drop cable can be a maximum of 6m from main trunk line.

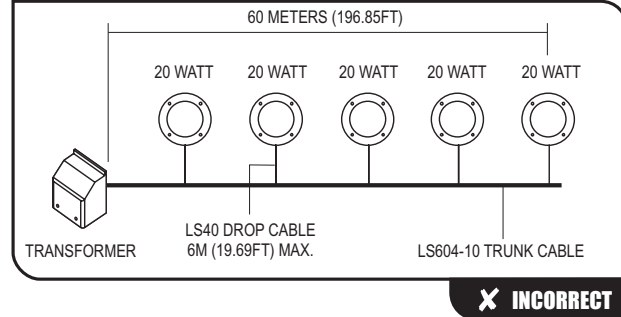
A larger cable will experience a lower voltage drop over the same length of cable (refer Voltage Drop Chart below).

## EXAMPLE 1 - USING DROP CABLE ONLY

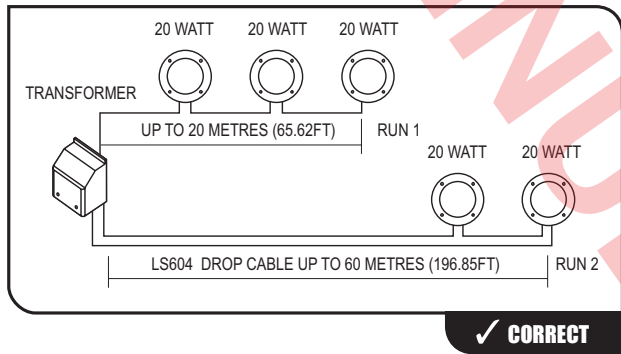


This example shows the incorrect way of installing a system using LS604 Drop Cable - The total load is 100 watts over 50 metres (164.04ft) which is more than the 12 metres (39.37ft) which is allowed in the Voltage Drop Chart below (refer to (1)).

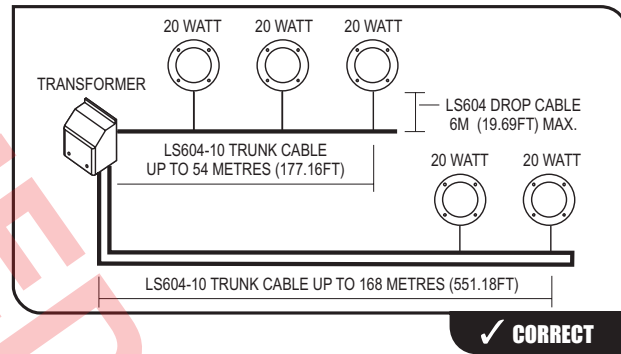
## EXAMPLE 2 - USING TRUNK AND DROP CABLE



This example shows the incorrect way of installing a system using LS604-10 Trunk Cable - The total load is 100 watts over 60 metres (196.85ft) which is much more than the 36 metres (118.11ft) which is allowed in the Voltage Drop Chart below (refer to (4)).



This example shows the correct way of installing the system using LS604 Drop Cable - The total load on RUN1 is 60 watts over 20 metres (65.62ft) which is allowed in the Voltage Drop Chart below (refer to (2)). The load on RUN2 is 40 watts and using a doubled cable allows the run to be up to 60 metres long (196.85ft) (refer to (3)).



This example shows the correct way of installing the system using LS604-10 Trunk Cable - The total load on RUN1 is 60 watts at 54 metres (177.17ft) which is the maximum allowed in the Voltage Drop Chart below (refer to (5)). The load on RUN2 is 40 watts and using a doubled cable allows the run to be up to 168 metres (551.18ft) long (refer to (6) in Voltage Drop Chart).

## VOLTAGE DROP CHART

LOAD	3.3MM (0.13IN) LS604 DROP CABLE		6MM (0.24IN) LS604-6 TRUNK CABLE		10MM (0.39IN) LS604-10 TRUNK CABLE	
	Single	Double	Single	Double	Single	Double
20W	70m (229.66ft)	140m (459.32ft)	105m (344.49ft)	210m (688.98ft)	140m (459.32ft)	280m (918.64ft)
40W	30m (98.43ft)	60m (196.85ft) (3)	55m (180.45ft)	110m (360.90ft)	84m (275.59ft)	168m (551.18ft) (6)
50W	25m (82.02ft)	50m (164.04ft)	44m (144.36ft)	88m (288.72ft)	62m (203.41ft)	124m (406.82ft)
60W	20m (65.62ft) (2)	40m (131.24ft)	36m (118.11ft)	72m (236.22ft)	54m (177.16ft) (5)	108m (171.30ft)
70W	15m (49.21ft)	30m (98.42ft)	30m (98.43ft)	60m (196.86ft)	50m (164.04ft)	100m (328.08ft)
80W	14m (45.93ft)	28m (91.86ft)	27m (88.58ft)	54m (177.16ft)	46m (150.92ft)	92m (211.84ft)
90W	13m (42.65ft)	26m (85.30ft)	24m (78.74ft)	48m (157.48ft)	42m (137.76ft)	84m (275.52ft)
100W	12m (39.37ft) (1)	24m (78.74ft)	21m (68.90ft)	41m (137.80ft)	36m (118.11ft) (4)	72m (236.22ft)
120W	10m (32.81ft)	20m (65.62ft)	18m (59.06ft)	36m (118.11ft)	30m (98.43ft)	60m (196.86ft)
250W	4m (13.12ft)	8m (26.24ft)	9m (29.52ft)	18m (59.05ft)	17m (55.77ft)	34m (112ft)

**CAUTION**

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

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6. Do not operate the lighting fixture with a missing or damaged shield.