LED UNDERGROUD LIGHT

ITEM NO.: LUL-R60/120/145A Series

INSTRUCTION OF LED UNDERGROUD LIGHT

The product are widely used in the decorative lighting for piazza, restaurants, private villas, garden, conference room, exhibition hall, beautify the area environment,stage bar,shopping mall,parkingsculpture,the tourist attractions.

A.Specification

A-1. Structure

Model	LUL-A-1P/LUL-A-3P	LUL-DY1-1P
Size	D60xH83mm	D35xH41mm
Material	Stainless Steel+ Aluminium	
Weight	0.33Kgs	0.21Kgs
LED Quantity	1x3W/3x1W	1x3W
Color	R,G,B,W,WW/R-1,G-1,B-1	R,G,B,W,WW
Input Volt	12V/24V DC	12V/24V DC
Power Consumption	3W(Max.)	3W(Max.)
LENs	15°20 ° 40°/15° 25° 45°(3in1)	15° 30° 60°
Controller	Null	Null

LUL-R60A -1P/3P

LUL-DY1-1P

Model	LUL-B-3P	LUL-B-9P
Size	D125xH66mm	D125xH66mm
Material	Stainless Steel+Aluminium	
Weight	1.3Kgs	1.3Kgs
LED Quantity	3x3W	9x1W
Color	R,G,B,W,WW	R-3,G-3,B-3
Input Volt	24V DC	12V24V DC
Power Consumption	9W(Max.)	9W(Max.)
LENs	20° 30° 40°	15° 25° 40° (3in1)
Controller	Null	CTR-RGB-12V/24V

LUL-R120A -9P

LUL-R120A -3P

Model	LUL-C-6P	LUL-C-18W
Size	D145xH73mm	D145xH73mm
Material	Stainless Steel +Aluminium	
Weight	1.7Kgs	1.7Kgs
LED Quantity	6x3W	18x1W
Color	R,G,B,W,WW	R-6,G-6,B-6
Input Volt	24V DC	24V DC
Power Consumption	18W(Max.)	18W(Max.)
LENs	20° 30° 40°	15° 25° 40° (3in1)
Controller	Null	CTR-RGB-24V

LUL-R145A -18P

LUL-R145A -6P

A-2. Model Configuration Table:

Model No.	LED Color	LED Quantity	Power Consumption	Beam Angle	Size	Weight	√
LUL-DY1-1P	R, G, B, W, WW	1	3 Watt	15°/30°/60°	Φ35×H41mm	0.21kg±5%	
LUL-R60A-3P	R, G, B	3	3 Watt	15°/25°/40°	Φ60×H83mm	0.33kg±5%	
LUL-R60A-1P	R, G, B, W, WW	1	3 Watt	15°/30°/40°	Φ60×H83mm	0.33kg±5%	
LUL-R120A-9P	R, G, B	9	9 Watt	15°/25°/40°	Φ125×H66mm	1.3kg±5%	
LUL-R120A-3P	R, G, B, W, WW	3	9 Watt	20°/30°/40°	Φ125×H66mm	1.3kg±5%	
LUL-R145A-18P	R, G, B	18	18 Watt	15°/25°/40°	Φ145×H73mm	1.7kg±5%	
LUL-R145A-6P	R, G, B, W, WW	6	18 Watt	20°/30°/40°	Φ145×H73mm	1.7kg±5%	

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B.Working Mode（FOR CTR-RGB-12/24V)

1. DMX512 mode (signal from DMX console)
2. Built-in mode
3. Master/Slave mode Mode(Master=001,Slave≠001)

B-1. Setting and Built-in Programs

Press 【MODE】 into the setting of working mode
Press 【MODE】 the controller will enter into two kinds of functions：Each time press the button, a new mode or function will be available.
Function:（A）Built-in programs；
（B）Set DMX Address；

（A）Built-in programs：(Total 26 functions)
Brightness range of Static color: 0~255
Speed range of Color change/fade: 0~100
Cycle range of: 0~10
*Function 08~25 can be optional in AutoRun Mode

（B） DMX ADDRESSING: Press【UP】or【DOWN】to start setting.
DMX ADDRESS RANGE: 001~512
The controller has 3 DMX channels designed as below：

Built-in programs Sheet	
01 Static Red	14 Cyan Fade
02 Static Green	15 White Fade
03 Static Yellow	16 Color Fade1
04 Static Blue	17 Color Fade2
05 Static Purple	18 Red Flash
06 Static Cyan	19 Green Flash
07 Static White	20 Yellow Flash
08 Color Change	21 Blue Flash
09 Red Fade	22 Purple Flash
10 Green Fade	23 Cyan Flash
11 Yellow Fade	24 White Flash
12 Blue Fade	25 Color Flash
13 Purple Fade	26 AutoRun Mode

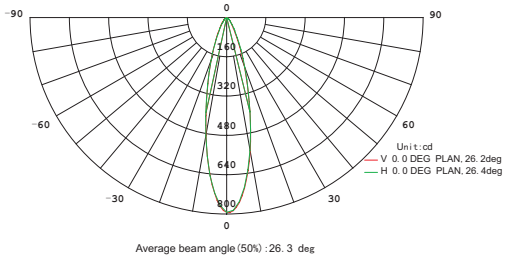
CHANNEL 1		CHANNEL 2		CHANNEL 3	
Data	**Function**	**Data**	**Function**	**Data**	**Function**
0~255	Brightness of Red	0~255	Brightness of Green	0~255	Brightness of Blue

***Enter or quit DMX mode automatically once detecting valid signal!!!

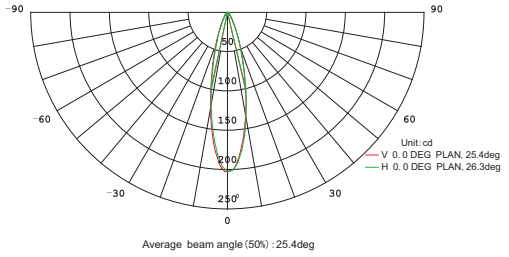
C.Photometrics Parameters

C-1. Cadela distribution

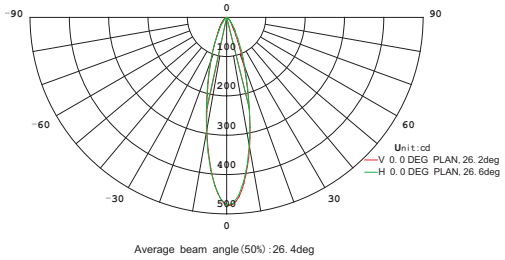
LUL-R120A-9P Angle：25°



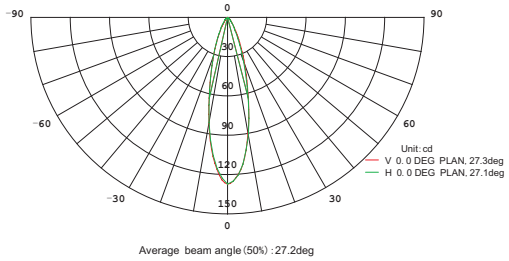
RGB



RED



GREEN



BLUE

C-2.Illuminance at a distance

LUL-R120A-9P Angle：25°

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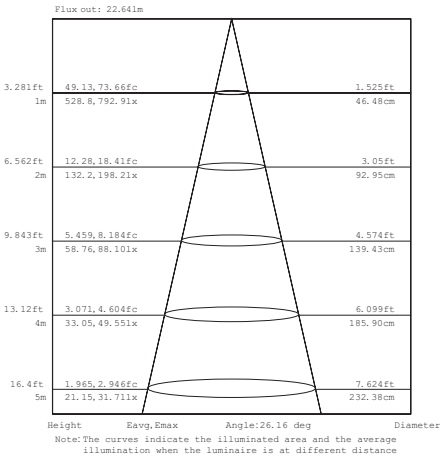
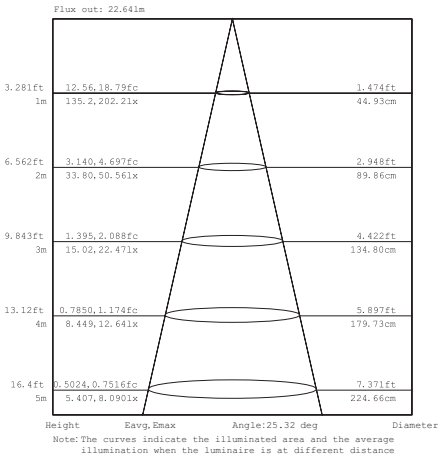
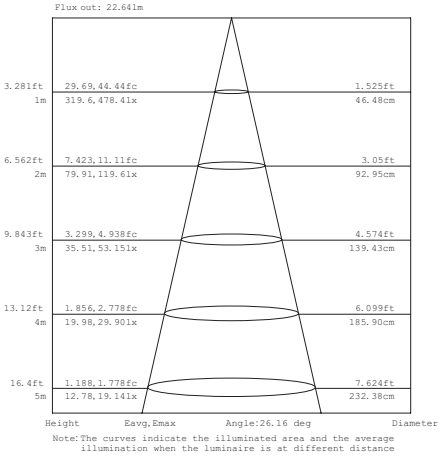


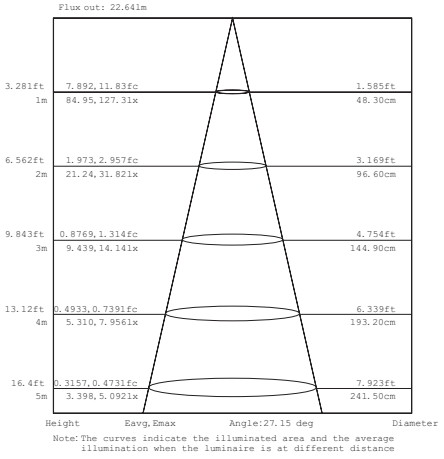
RGB



RED

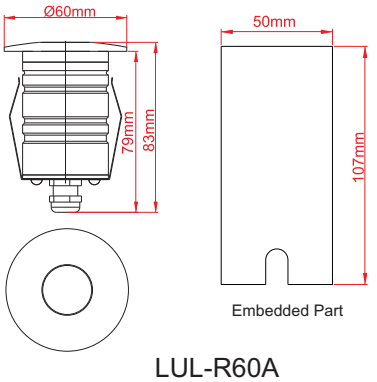


GREEN

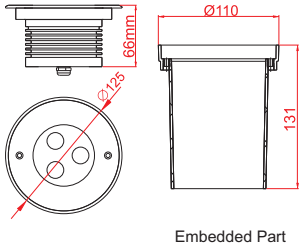


BLUE

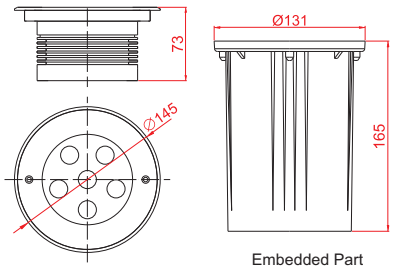
D.Dimension drawing



LUL-R60A



LUL-R120A



LUL-R145A

E.Installation

E-1. Positioning

Position the fixture, cable pipe, on the ground, including driver or controller space if any.

E-2. Installation of cable pipe before construction

Use professional underground PVC pipe for extension and connector cables.
*Make sure the pipe be not broken in the middle.
*Make sure the diameter of pipe is big enough to let cables or connectors go through.
*Prevent the pipe being filled with clay or cormcreteh

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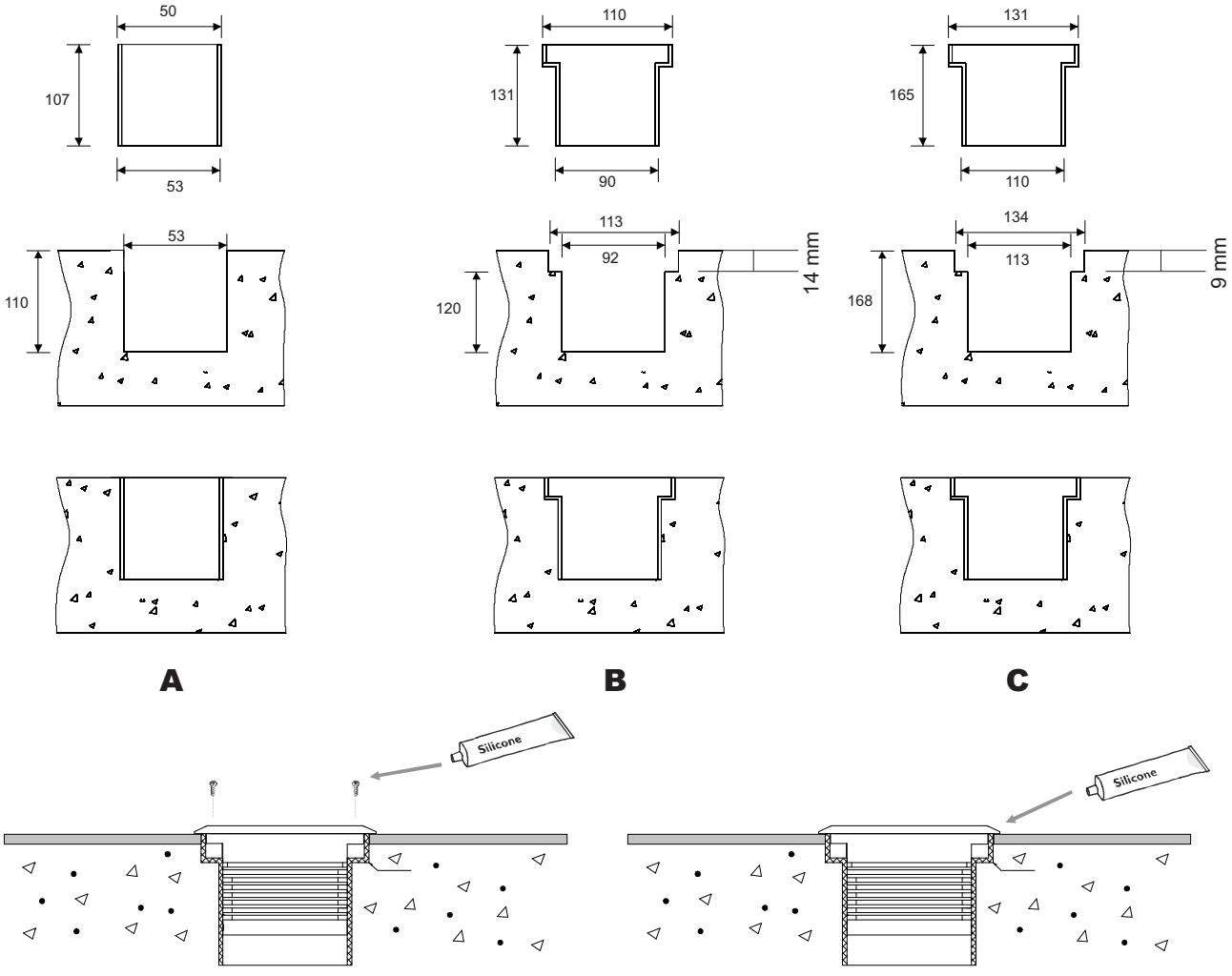
E-3. Installation of Round-shaped and Square-shaped embedded frame

Measure, or check the size of embedded frame carefully.
Make sure frame be tightly and rigidly fixed underground.
*Ensure the embedded cable pipe in the central of frame.
*Use concrete to seal and hold the frame tightly; For some models, fasten with screw is necessary.
*Make sure the frame will not be filled by anything and be placed in the same level as ground.

E-4. Installation of light fixture

After marble or concrete floor cover the frame well, make the connection and fix the light body into frame by fastening stainless screw. Glueing the screw tip and gap between fixture cover and ground surface is strongly suggested.

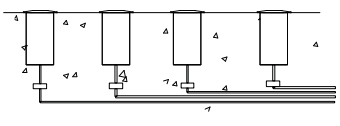


F. Connection

Warning: Do not plug whole system into power before completion of whole connection!!! Carefully inspections on every connection, waterproof, installation are required, and make sure there was safety switch protection in the main power control box.

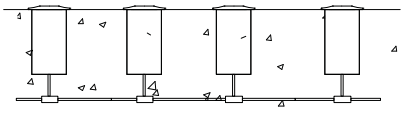
Connection between fixtures:
1T1: One cable one fixture

*Max length of the cable MUST BE carefully calculated, upon power of fixture and cable specification.



T-shaped: T-shaped connection to each fixture

*Make sure there was enough space for T-shaped connection underground.
*Max loading quantity and length of the cable MUST BE carefully calculated, upon power of fixture and cable specification.



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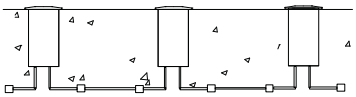
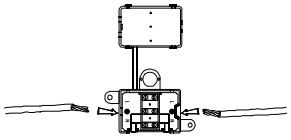
Connective: Input and output from each fixture

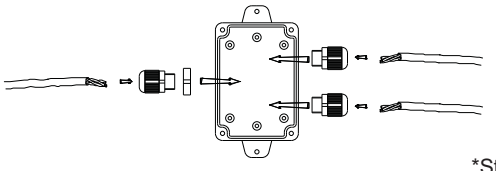
*Make sure there was enough space for T-shaped connection underground.
*Max loading quantity and length of the cable MUST BE carefully calculated, upon power of fixture and cable specification.

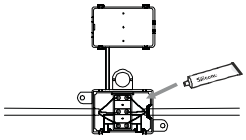


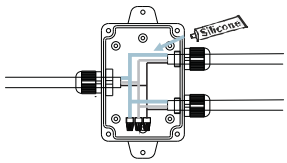
Connection between cables

Nake wire: Use professional waterproof junction box to make the connection of embedded cable and fixture input cable. And glure the connection points well.









*Strongly recommend to glue the junction box well, for serious application.
*Make sure there was enough space for junction box.
*Choose correct junction and connection terminals according to fixture characters.

Connector: Use professional waterproof connector as connection.

* Strongly recommend to use Ip68 connectors.
* Choose the correct pins according to fixture characters.
* Fasten the screw of connectors well for guarantee on waterproof.
* Make sure the connector can go through the cable pile, and there is enough space for connectors in embedder frame.

Caution:

1. *Do not plug them into power when the product is still in package;*
2. *Don't use anything to cover the fixture during application;*
3. *Don't use this product in close environment;*
4. *If this product appears to be damaged, do not attempt any repair, please contact your dealer.*

Warning:

* *Neglect on action of the above treatment will lead to failure of waterproof and proper working of the lights!!!*
* *The stainless steel cover can't use soda acid liquid line Washing, otherwise the resulting surface rust problem The manufacturer is not responsible for.*
* *Make sure the ground connection well avoid electric shock, due to metal housing.*