Leedarson LED Bulb CCT Quick User Guide



Product Introduction

1.1 Basic Information

CONTROL YOUR LIGHTS FROM ANYWHERE in the world from the palm of your hand. The CCT Retrofit produces beautiful high quality light that you can tune, dim, and control from your smartphone or tablet. Easy to setup, bulbs fit into your standard household sockets - no need for installation by an electrician. A wireless network is required to operate bulbs.

SET LIGHT SCENES: Create rich indirect light scenes in your home by 2700-6500K white. Schedule to turn on the lights so you don't come home to a dark house. Set automated timers, or program the bulb to gradually increase brightness in the morning like the sunrise for a more pleasant, natural alarm.

SAVE ENERGY: Lightify bulbs use up to 84% less energy than traditional incandescent bulbs and last up to 20,000 hours making them a smart choice for energy conscious homes.

SECURITY: The security layer provides confidentiality, authentication and replay attack robustness through AES-128.

SECURITY: As a Security Enabled Z-Wave Plus Product. The bulb provided confidentiality, authentication and replay attack robustness through AES-128.A Security Enabled Z-Wave controller can used in order to fully utilize the product.

1.2 Special notes for Connected Bulbs

Line Voltage Dimmer

LEEDARSON does not recommended the use of a line voltage dimmer with connected bulbs. The reason is that each connected bulb contains a radio and by reducing, or removing, power through a line voltage dimmer may cause the connected bulb to not function properly.



For dimming, LEEDARSON recommends using a compatible App (i.e., LEEDARSON'S LDS App)or a compatible wireless switch that uses the same wireless protocol as the bulb.

1.3 Devices Inclusion and Exclusion

If your switch or fixture is OFF, or is turned OFF, then control and communication from the App, or wireless switch, to the LED Bulb is lost.



Inclusion Procedure

The following are the general procedures for the Z-Wave bulb to be "included/excluded" into the network:

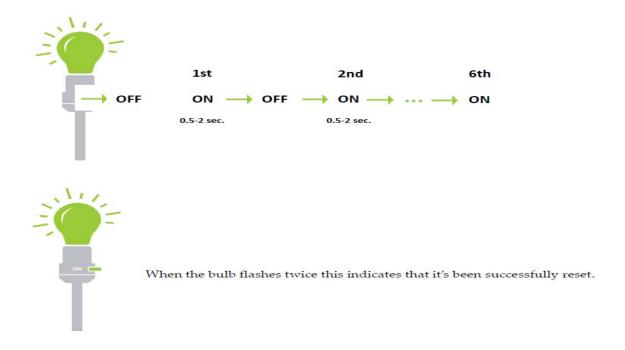
- 1. Screw the CCT bulb into a standard E27 socket.
- 2. Turn on the bulb with your wall switch to apply power to the bulb.
- a) If you're not using a wall switch, then use your alternate method to apply power to the bulb.
- 3. Activate the "included/excluded "mode on your Z-wave controller or gateway.
- a) This may also be done through your associated app,if your ecosystem has that capability.
- 4. Toggle the wall-switch, from OFF, then to ON.
- a) Or use your alternate method to toggle power from OFF, then to ON.
- 5. The LED bulb will flash once if it has been successfully "included/excluded "into your Z-Wave network.

Note: If you are using 3rdpartyZ-Wave Controller or Gateway, please refer to 3rdParty's instruction on how to add a new devices to your network.

Note 2: If the bulb will not join the network after repeated attempts, please use the Factory Reset procedures to clear the bulb's settings.

1.4 Factory Reset Procedure

Physically switch the bulb on and off six (6) times for intervals of 0.5-2seconds. After the 6th time, the bulb will flash twice indicating that it's successfully reset. Please use this procedure only when the network primary controller is missing or otherwise inoperable.

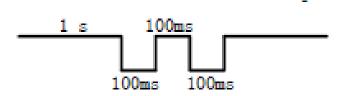


1.5 Behaviors of the bulb

This bulb has some behaviors to indicate users the status of the bulb.

Factory Reset mode

The bulb will flash twice when it is powered on in reset mode or factory mode.



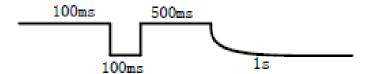
Add for inclusion

The A19 bulb will flash once when it has been included into the network.



Remove for exclusion

The A19 bulb will flash once and then dim to 5% when it has been excluded outside the network. If you want the bulb to be re-included, you need re-power the bulb, and then execute the inclusion process.



1.6 Technical Parameter

Protocol	Z-Wave
Frequency	868.42MHz
Communication Distance	40m(LOS)
Modulation Mode	FSK(BFSK/GFSK)
Power(W)	9
Voltage(V)	220-240
CCT(K)	2700-6500
CRI	80
Beam Angle	240
Dimensions(mm)	120*60/118*60

2 Z-Wave Specific

Add for inclusion, Remove for exclusion. This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other Manufactures and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

2.1 Z-Wave Plus Device Type

Device Type	Role Type
Light Dimmer Switch	Always On Slave Role Type

2.2 Command list

Network Type	Node Info	
Non Conspity	COMMAND_CLASS_BASIC	V1
Non Security	COMMAND_CLASS_VERSION	V2
Network	COMMAND_CLASS_COLOR_CONTROL	V1
Network	COMMAND_CLASS_SWITCH_MULTILEVEL	V2
	COMMAND_CLASS_ASSOCIATION_GRP_INFO	V1
	COMMAND_CLASS_ASSOCIATION	V2
	COMMAND_CLASS_ZWAVEPLUS_INFO	V2

COMMAND_CLASS_MANUFACTURER_SPECIFIC	V2
COMMAND_CLASS_POWERLEVEL	V1
COMMAND_CLASS_CONFIGURATION	V1
COMMAND_CLASS_FIRMWARE_UPDATE_MD	V2
COMMAND_CLASS_DEVICE_RESET_LOCALLY	V1
COMMAND_CLASS_ALL_SWITCH	V1

2.3 Documentation For Association Command Class

This association group is only used for Z-Wave plus lifeline communications.

Number of Association Groups	Maximum Supported Nodes For Association Groups
1	1

2.4 Documentation For Configuration Command Class

Parameter	Numb	Default	Function Description
	er of	Value	
	Bytes		
0x01	1	NA	It was used to get the temperature of NTC.
(This Parameter is not set and it can			
only be used for the Configuration			
Get command.)			
0xFF	4	NA	Value=0x88888888, Default=1, Size=4
(This Parameter is not readable and			Reset to factory configuration and removed the
it can only be used for the			Z-Wave network.
Configuration Set command.)			Value=0x88000000, Default=1, Size=4
			Reset Configuration parameter to default value.

2.5 Z-Wave Plus Info Command Report

Parameter	Value
Role Type	5(ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_ALWAYS_ON)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0600(ICON_TYPE_GENERIC_LIGHT_DIMMER_SWITCH)
User Icon Type	0x0600(ICON_TYPE_GENERIC_LIGHT_DIMMER_SWITCH)

1.8.2 Manufacturer Specific Report Commands

Parameter	Value
Manufacturer ID 1	0x03
Manufacturer ID 2	0x00

Product Type ID 1	0x00
Product Type ID 2	0x03
Product ID 1	0x00
Product ID 2	0x04

1.8.5 Version Report Commands

Parameter	Value (HEX)	
Z-Wave Protocol Library Type	0x03	
Z-Wave Protocol Version	0x04	
Z-Wave Protocol Sub Version	0x26	
Firmware 0 Version	Firmware Version Upper 8 bits 0x01	
Firmware 0 Sub Version	Firmware Version Lower 8 bits 0x01	
Hardware Version	0xFF	
Number of firmware targets	0x00	