

OWP75D-1W24V

Summary

OWP75D-1W24V is a dimming driver that can provide constant voltage output. Complies with DALI standard protocol IEC 62386. LED driver featuring the dimming by DALI master/Touch DIM(PushDIM) switch, with smooth dimming curve and are flicker free.

Product Feature

- Single channel output with 24V CV direct current
- Voltage input range from 120VAC to 277VAC
- Built-in active PFC function
- Meet DALI protocol IEC 62386-207
- Support Touch DIM(Push DIM) function
- Ultra-thin design, Waterproof level IP67, High efficiency up to ≥90%
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over voltage, lightning protection
- suitable for LED CV lighting, such as LED module, LED strip light, LED tube, and so on

Technical Parameters

Model	OWP75D-1W24V	
Input	Efficiency	≥90%@230VAC, Full load
	Voltage	120-277VAC
	Frequency	50-60Hz
	Power Factor	≥0.95@230VAC, Full load
	THD	<10%@230VAC, Full load
	Standby power	<0.5W
	No load power	<0.5W
	Current	0.47Amax@230VAC 0.9Amax@120VAC
	Inrush Current	Cold start,52A@230VAC 220us
	Turn on delay Time	≤ 0.75 s, at230Vac (When the light begins to shine)
Output	Current / Voltage / Power	3.125A / 24V / 75W
	Channel	1
	Output Voltage	±5%
	Ripple Voltage	±3%
	No load output voltage	25.2V max
Protection	Over load	Reduce current burp protection, troubleshoot normal output
	Short circuit	Short circuit No output, troubleshooting output normal
	Over Current	Reduce current burp protection, troubleshoot normal output
Safety&EMC	Surge	L-N 6000VAC L-N-PG 10000VAC
	Withstand Voltage	I/P-O/P:3750VAC/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	Safety Standards	EN61347, GB19510
	EMC Emission	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
	Insulation Resisance	5MΩ
Function	Dimming mode	DALI2.0/Touch DIM(Push DIM)
	Dimming range	0.1%-100%
	Dimming curve	Logarithm
Others	Working Temp.	-20°C~+50°C
	Storage Temp.; Humidity	-40°C~85°C, 20-90%RH
	Tc	70°C
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:70°C
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing Size	Net weight: ---g±5%/PCS; ---PCS/Carton; ---kg±5%/Carton; Carton Size: ---*---*---mm(L*W*H)
	Dimension	187*64*33mm(L*W*H)





RoHS

IP67

SELV



CE

IP67

SELV



Application

Wall Washer

LED Strip Light

LED Tube

Underground Light

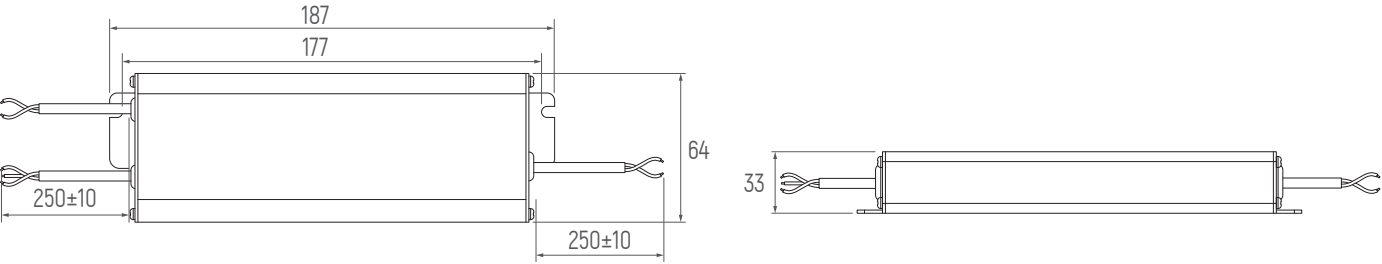
AR111 Venture Light

User's manual: 2023.11

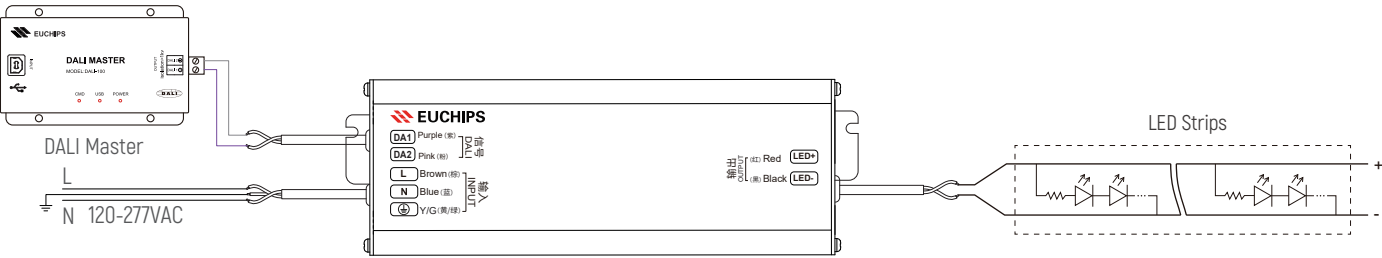
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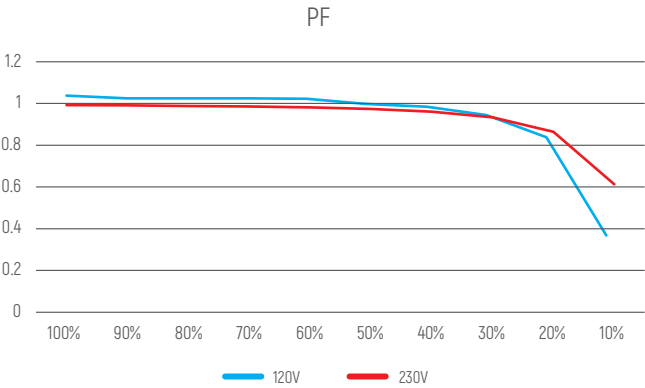
Dimension(mm)



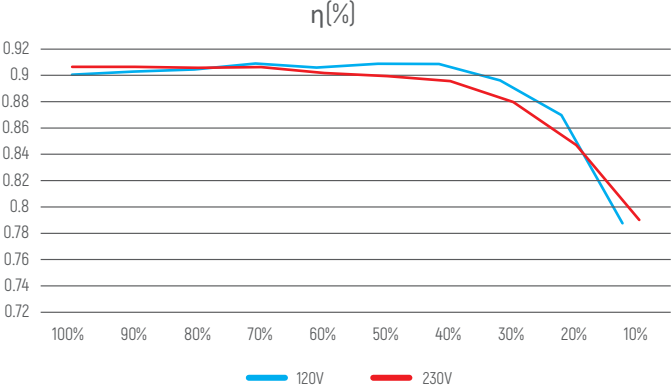
Wiring Diagram



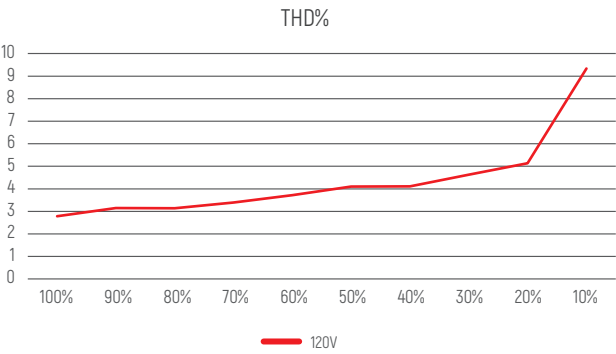
PF vs Load



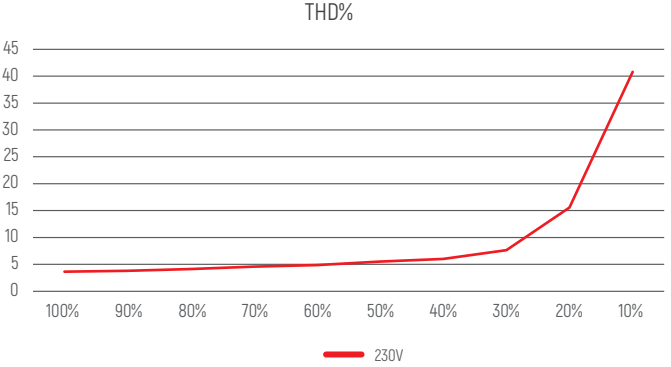
Eff. vs Load



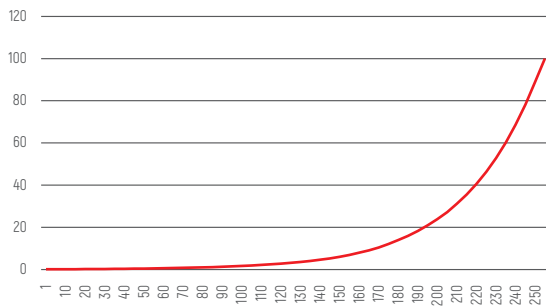
THD



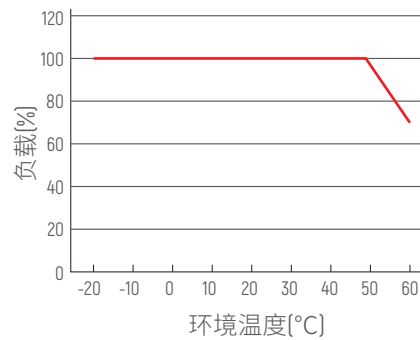
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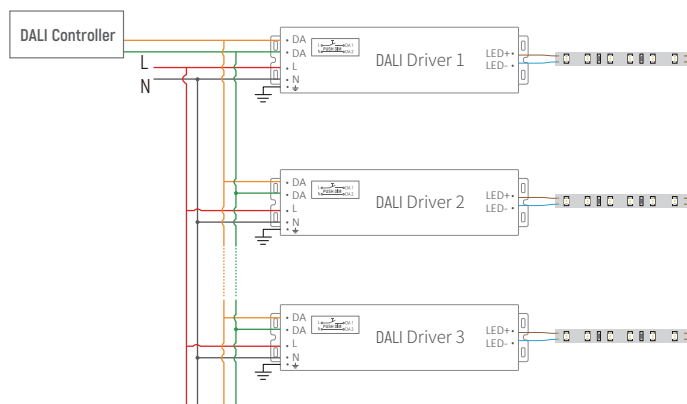
Dimming Curve



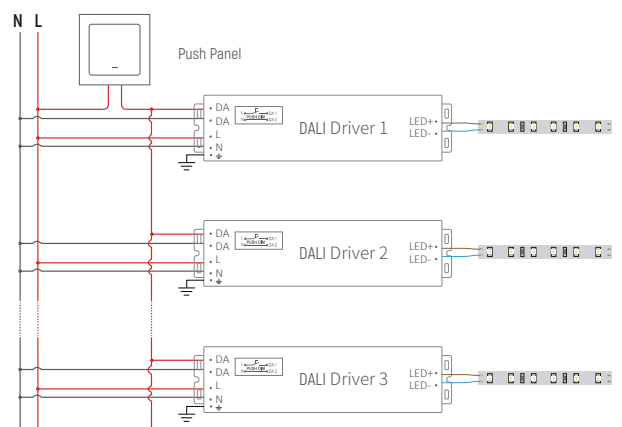
Derating curve



DALI Diagram



Touch DIM(Push DIM) Diagram



Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Touch Dim(Push DIM) Function

1. Press the Touch DIM switch for 8s or more, the driver can be controlled via Touch DIM switch.
2. Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
3. Long press the Touch DIM switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.
4. Double-click the Touch DIM switch (<0.3s), then all lamps connected on the device will be set maximum brightness.
5. The brightness adjustment range is 1%-100%, and the light can be turned off through short pressing when doing the adjustment with long pressing Touch DIM switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

Cautions

1. This product should be installed by qualified personnel.
2. This product is non waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a water proof enclosure.
3. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6. Due to safety concerns, PVC or rubber cord of 0.75- 2.5mm² is recommended for input and output terminal[s] (excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7. In case of malfunction, do not repair it yourself.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions.

OWP75D-1W24V

概述

OWP75D-1W24V是一款可提供恒压输出的调光驱动器符合DALI标准协议IEC62386。用DALI主控/Touch DIM(PushDIM)开关调光，曲线平滑、无闪烁。

产品特点

- 单通道恒压直流24V输出
- 输入范围120-277VAC
- 电压输入含主动PFC, 足功率输出
- 遵循DALI协议标准 IEC62386-207
- 支持Touch DIM[Push DIM]功能
- 超薄设计, 防水等级IP67, 效率高达≥90%
- 平滑调光效果, 无间隔
- 保护：防雷, 短路保护, 过载保护, 过流保护
- 适用于LED恒压灯具，如LED模组, 灯带, 灯条等

技术参数

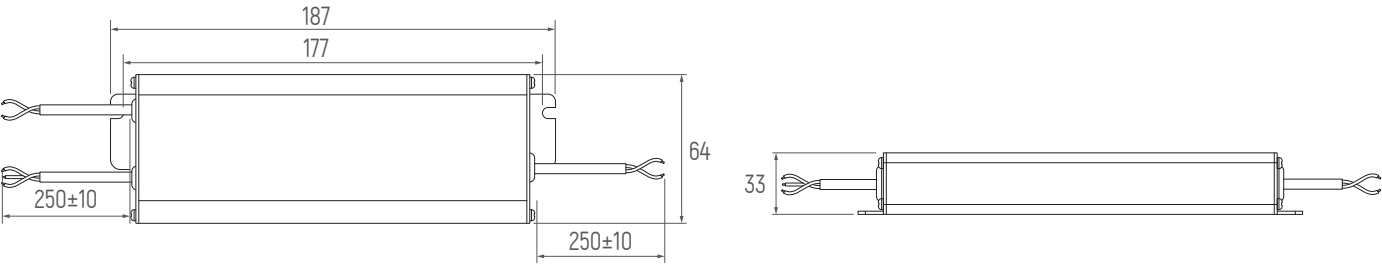
产品型号	OWP75D-1W24V	
输入	效率	≥90%@230VAC, 满载
	电压	120-277VAC
	频率	50-60Hz
	功率因素	≥0.95@230VAC, 满载
	THD	<10%@230VAC, 满载
	待机功耗	<0.5W
	空载功耗	<0.5W
	电流	0.47Amax@230VAC 0.9Amax@120VAC
	浪涌电流	冷启动52A@230VAC 220us
	启动延时	≤0.75 s, at230Vac (当灯光开始亮起)
输出	电流 / 电压 / 功率	3.125A / 24V / 75W
	通道	1
	输出电压范围	±5%
	纹波电压	±3%
	空载电压	25.2V max
保护	过负载	降低电流打嗝保护，排除故障输出正常
	短路	短路无输出，排除故障输出正常
	过流	降低电流打嗝保护，排除故障输出正常
安全与电磁兼容	雷涌	L-N 6000VAC L-N-PG 10000VAC
	耐受电压	I/P-O/P:3750VACc/1min<5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	安全标准	EN61347, GB19510
	电磁兼容	EN55015, EN61000-3-2
	EMC抗扰度	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
功能	调光方式	DALI2.0/Touch DIM[Push DIM]
	调光范围	0.1%-100%
	调光曲线	对数
其它	工作温度	-20°C~+50°C
	储存温度&湿度	-40°C~85°C, 20-90%RH
	Tc	70°C
	材质	金属
	防水等级	IP67
	寿命	50,000h@tc:70°C
	质保	5年
	开关次数	>25,000次
	箱重尺寸	净重: ---g±5%/个; --个/箱; ---kg±5%/箱; 外箱尺寸: ---*---*---mm[长*宽*高]
	产品尺寸	187*64*33毫米[长*宽*高]



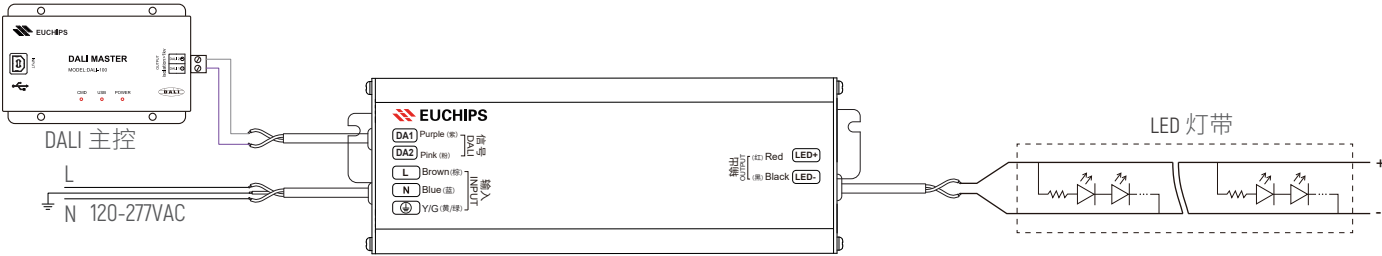
应用

洗墙灯 LED灯带 LED硬灯条 地埋灯 AR斗胆灯

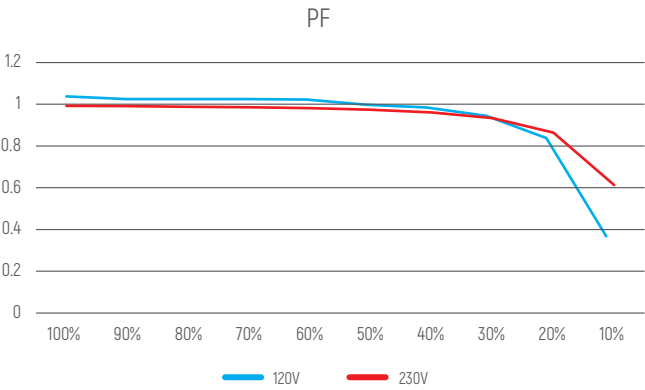
尺寸(mm)



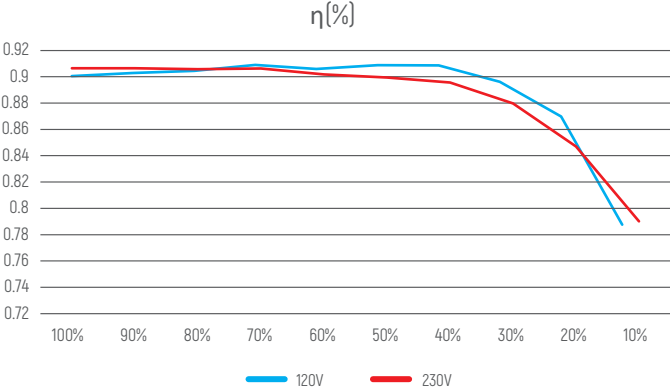
应用接线图



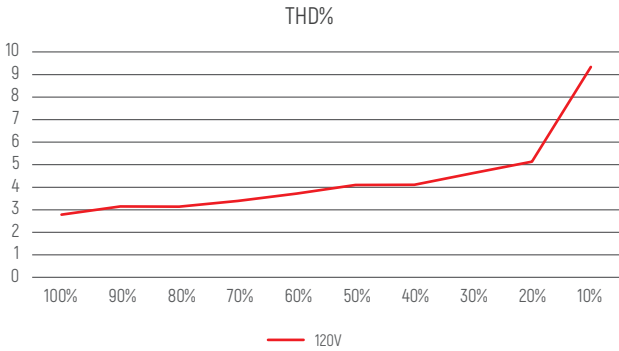
PF vs 负载



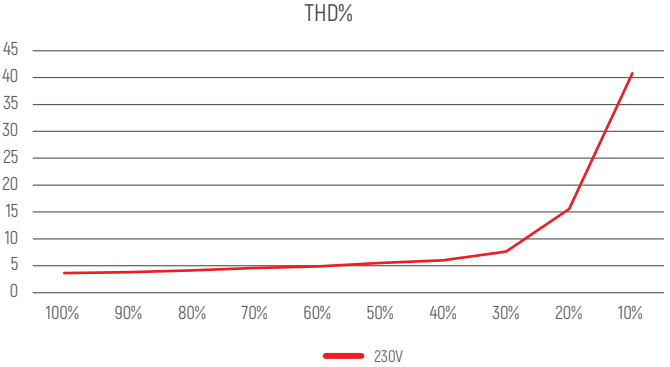
Eff. vs 负载



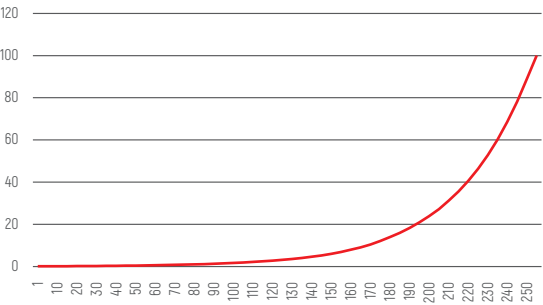
THD



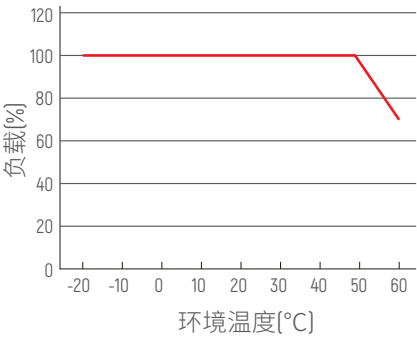
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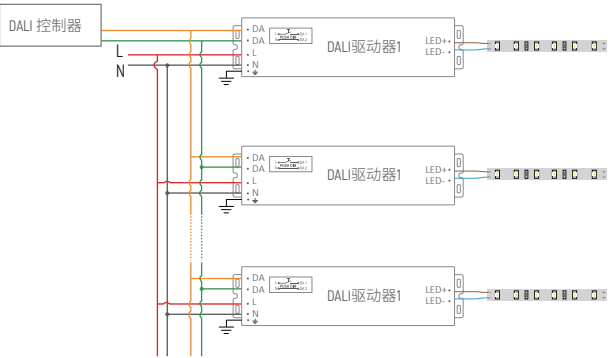
调光曲线



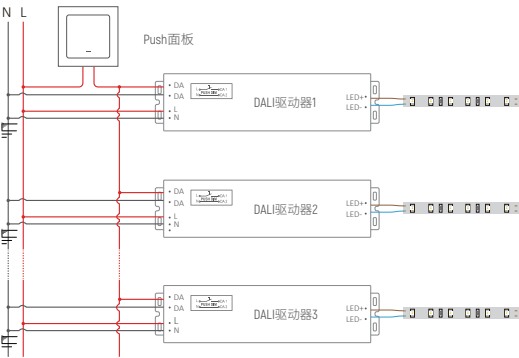
降额曲线



DALI应用图



Touch DIM(Push DIM)应用图



备注: 只能使用开路的按压式开关(不带指示灯)。采用同步连线时每个设备和设备之间的线长不超过20米

Touch Dim(Push DIM)功能

- 1.长按8s进入Touch DIM模式。
- 2.短按Touch DIM 开关 (<0.5秒) 进行灯的亮暗控制。
- 3.长按Touch DIM 开关 (>0.5秒) 进行灯具的亮度调节，光是调亮还是调暗，随着每次按压的开关变化而变换。
- 4.双击Touch DIM 开关 (<0.3秒)，连接的所有灯具将达到最亮状态。
- 5.亮度调节范围为1%-100%。
- 6.具有断电记忆功能，重新上电将恢复到上一次断电的状态。

注意事项:

- 1、本产品请由具有专业资格的人员进行调试安装。
- 2、本产品不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。
- 3、良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
- 4、请检查使用的LED电源输出电压电流，是否符合产品要求。
- 5、出于安全考虑，推荐输入和输出（信号端除外）用0.75-2.5mm² PVC或橡胶线缆，并确保接线牢固，以免电线过热或接触不良触发事故。扁平电源线不适用。
- 6、通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
- 7、如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

※ 本说明书内容如有更新，恕不另行通知。若您使用的产品功能与说明书不一致时，请以产品为准。如有疑问请与我们联系。