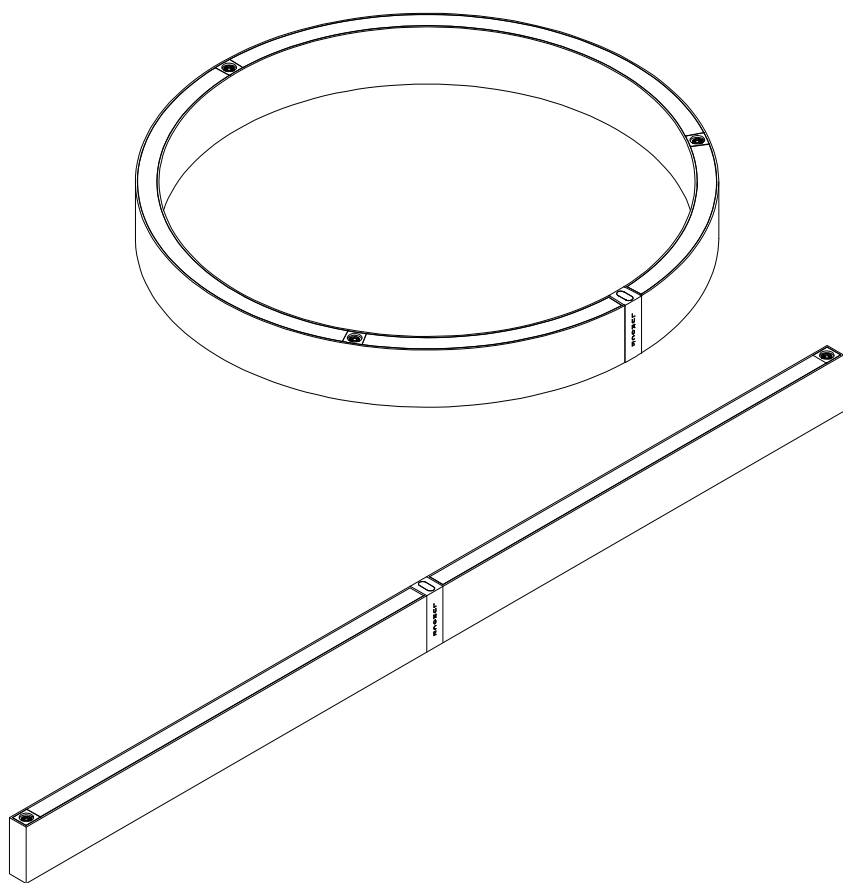LUMOCE® 麓沐森®

粼境系列

Sparkling Mysterium

DP400/DP600 (V2.0)
LP800/LP1200/LP1600 (V2.0)

新版本特性说明
Feature instruction for new version

V2.0.0.1

LUMOCE

灯具安装及使用前请仔细阅读《安装说明及使用指南》，您也可以前往 LUMOCE 官网 www.lumoce.com 下载该手册，保留备用。

Please carefully read the "Installation Instructions and User Guide" before installing and using the luminaire. You can also download the manual from the LUMOCE official website www.lumoce.com and keep it as a backup.

安全警告
Safety Warning

请参阅《安装说明及使用指南》中的"安全警告"部分。

Please refer to the "Safety Warning" section in the "Installation Instructions and User Guide".

手势调光控制
Gesture dimming control

请参阅《安装说明及使用指南》中的"手势调光控制"部分，以便正确理解以下"新版本特性"的相关描述。

Please refer to the "Gesture Dimming Control" section in the "Installation Instructions and User Guide" for a correct understanding of the following "New Version Features" description.

发射功率
Transmit power

本设备的最大发射功率为 10mW，符合"微功率短距离无线电发射设备目录和技术要求"的 F 类设备要求，仅限室内使用。

The maximum transmission power of this device is 10mW, which meets the requirements of class F in the "Catalogue and Technical Requirements for Low-Power Short Range Radio Transmission Device" and is only suitable for indoor use.

提示：本手册中的配图均为示意图，仅供参考。由于产品的更新与升级，产品实物与示意图可能略有差异，请以实物为准。

Note: The images in this manual are schematic diagrams for reference only. There may be slight differences between the actual product and the schematic diagram due to product updates. Please refer to the actual product for accuracy.

新版本特性
New version features

尊敬的客户：

Dear Customer:

感谢您选择我们的产品！为了给您带来更智能、更便捷、更丰富的照明体验，我们在原有版本的基础上进行了全面升级，推出了全新的粼境系列灯具 (V2.0)。新版本在保留所有经典功能的同时，新增了以下核心特性：

Thanks for choosing our product! In order to bring you a smarter, more convenient, and richer lighting experience, we have comprehensively upgraded the original version and launched a new Sparkling Mysterium series of luminaire (V2.0). The new version retains all classic features while adding the following core features:

1. 支持 LUMOCE 灯具遥控器 A1
Support LUMOCE luminaire remote control A1

可使用 LUMOCE 灯具遥控器 A1 对灯具进行所有的灯光效果控制、对灯具的手势感应器进行开关，和对灯具进行固件升级。

LUMOCE luminaire remote control A1 can be used to control all lighting effects of the luminaire , switch the gesture sensor of the luminaire , and upgrade the firmware of the luminaire .

2. 支持多灯具间同步灯光状态
Support synchronous lighting status between multiple luminaires

多个灯具间可组网，组网后，无论是使用手势调光还是遥控器调光，同组网络内的灯具将同步调光渐变过程及调光结果。

Multiple lumianires can be networked, and after networking as a group, whether using gesture dimming or remote control dimming, the luminaires in the same network group will synchronize the dimming gradient process and results.

3. 支持保存灯光状态
Support saving lighting state

灯具将保存断电前 15 秒时的灯光状态，以便再次通电后恢复灯光状态。

The luminaire will save the lighting state 15 seconds before power off, in order to restore the lighting state after power on again.

4. 支持超驱状态
Support overdrive state

正常状态：上下光源各自的亮度最大值都被限制为 100%。
Normal state: The maximum brightness of both the upper and lower lighting is limited to 100%.

超驱状态：一端光源的亮度最大值将从 100% 提升至 150%，为超驱通道。另一端光源的亮度将被限制在 10%，为正常通道。
Overdrive state: The maximum brightness of one lighting will increase from 100% to 150%, which is the overdrive channel. The brightness of the another lighting will be limited to 10%, which is the normal channel.

进入超驱状态：在正常状态时，当一端光源的亮度为 10%，另一端光源的亮度为 100% 时，通过联动调光手势或遥控器上的联动调光按键，将亮度为 100% 端通道的光源调亮时，该通道光源亮度的最大限制将从 100% 提升至 150%，进入超驱状态。
Entering overdrive state: In the normal state, when the brightness of one lighting is 10% and the other lighting brightness is 100%, by using the linkage dimming gesture, or the linkage dimming button on the remote control, to increase the brightness of the 100% side of lighting, the maximum limit of this channel's brightness will be raised from 100% to 150% to enter the overdrive state.

退出超驱状态：在超驱状态时，当一端光源的亮度为 10%，另一端光源的亮度为 101% 时，通过联动调光手势或遥控器上的联动调光按键，将亮度为 101% 端通道的光源调暗时，该通道光源亮度的最大限制将从 150% 降低至 100%，退出超驱状态。
Exiting overdrive state: In overdrive state, when the brightness of one lighting is 10% and the other lighting is 101%, by using the linked dimming gesture, or the linked dimming button on the remote control, to reduce the brightness of the 101% side of lighting, the maximum limit of this channel's brightness will be reduced from 150% to 100% to exit the overdrive state.

在本灯具端，仅通过联动调光手势可进入或退出超驱状态。
Only through the linkage dimming gesture can make the luminaire enter or exit the overdrive state by gesture control on luminaire.

灯具将不会储存超驱状态中的任何灯光状态。断电后再次开灯，灯具将恢复至进入超驱状态前 15 秒最后一次保存的灯光状态。
The luminaire will not save any lighting states in overdrive state. When the power is turned off and the light is turned on again, the luminaire will restore the last saved lighting state 15 seconds before entering the overdrive state.

⚠️ **请勿让灯具持续处于超驱状态超过 12 小时，以免灯具过热而损坏！**
Do not keep the luminaire in overdrive state for more than 12 hours to avoid overheating to damage the luminaire!

5. 优化调光算法
Optimize dimming algorithm

色温补偿机制
Color temperature compensation mechanism

在超驱状态中，使用色温补偿机制增加超驱通道的亮度，而不是直接提升 LED 灯珠的功率。通过色温补偿算法，确保在 LED 灯珠的功率范围内安全地增加超驱通道的亮度。

In the overdrive state, use color temperature compensation mechanism to increase the brightness of the overdrive channel, rather than directly increasing the power of the LEDs. By using color temperature compensation algorithm, ensure the safe increase of brightness in the overdrive channel within the power range of LEDs.

超驱状态中，全局色温调节范围将缩小，根据超驱状态中的不同亮度，灯具端将根据色温补偿机制实时计算全局色温调节的范围。

In the overdrive state, the global CCT adjustment range will be reduced. Based on the different brightness, the luminaire will calculate the global CCT adjustment range in real time according to the color temperature compensation mechanism.

功率补偿机制
Power compensation mechanism

由于 LED 灯珠特性，在不同的色温下，亮度略有不同。在调节色温时，灯具将自动运行功率补偿机制，确保 LED 灯珠在不同色温下的亮度保持一致。

Due to the characteristics of LEDs, the brightness varies slightly at different color temperatures. When adjusting the color temperature, the luminaire will automatically operate a power compensation mechanism to ensure that the brightness of the LEDs remains consistent at different color temperatures.

PWM 频率及分辨率优化
PWM frequency and resolution optimization

高频 PWM 调光：将 PWM 频率优化至约 20kHz 的超高频，配合一体化电感，既能避免低亮度时的轻微频闪，也能消除低亮度时的高频啸叫噪音。

High frequency PWM dimming: optimizing the PWM frequency to an ultra-high frequency of about 20kHz, combined with an integrated inductor, can avoid slight flicker at low brightness and eliminate high-frequency whistling noise at low brightness.

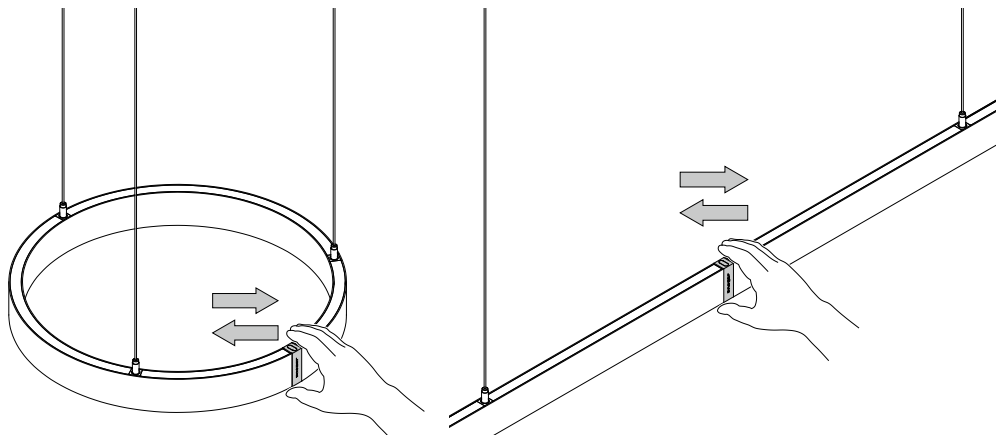专业级 PWM 分辨率：将 PWM 分辨率提升至 12 位的 4096 级分辨率，能提供细腻平滑的调光效果，达到专业级调光精度。

Professional PWM resolution: increasing the PWM resolution to 4096 levels of 12 bits can provide delicate and smooth dimming effects, pushing the dimming accuracy to professional level .

6. 灯具重置及开启配对
Luminaire reset and pairing enable

灯具在**上下光源都开灯**的状态下，在 **5 秒**内，手握成 C 型在灯具端的上下感应面挥动**两次**，使灯具的上下光源**同时关闭**后再**同时开启**，灯光闪烁 3 次，灯具清空已有配对信息、重启并重置灯光状态，并进入配对状态，等待其他灯具或遥控器端进行配对。

In the state when both the upper and lower lightings are turned on, within 5 seconds, hold your hand keeping in C-shape and swing twice on the upper and lower sensing surfaces to turn off and then turn on both the upper and lower lightings at the same time. The lightings flash 3 times, the luminaire clears existing pairing information, restarts and resets the lighting state, and enters the pairing state, waiting for other luminaires or the remote control to pair.

灯具开启配对后，有 30 秒的配对时间窗口，请在此期间内完成配对。
When the luminaire enables pairing, there is a 30 seconds pairing time window. Please complete the pairing within this period.

灯具配对成功后，灯光闪烁 1 次，表示已成功配对。
When successful pairing, the light flashes once to indicate successful pairing.

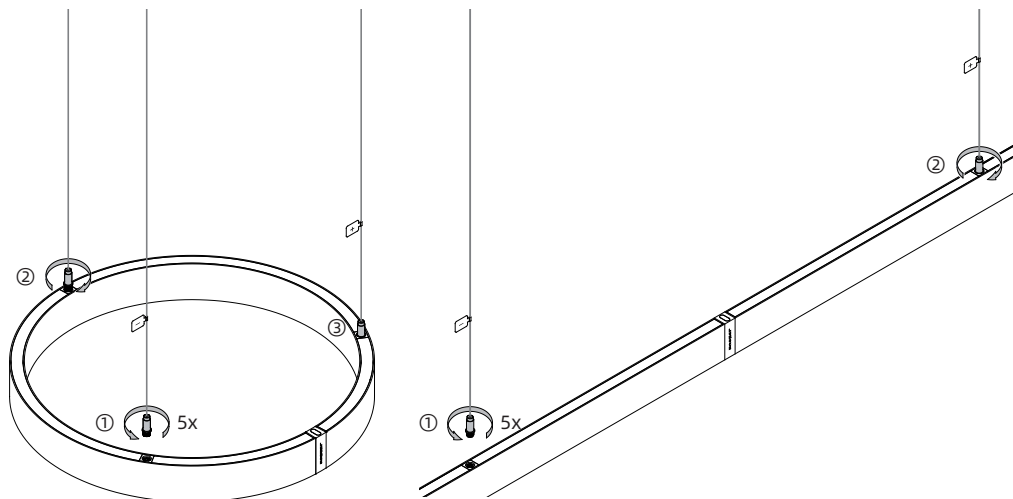## 灯具端可与遥控器端或其他灯具端进行配对，支持多灯组网、单灯单遥控器组网、多灯单遥控器组网、单灯多遥控器组网、多灯多遥控器组网。
The luminaire can pair with either the remote control or orther luminaires. The control system supports multi-luminaire networking, single-luminaire-single-remote networking, multi-luminaire-single-remote networking, single-luminaire-multi-remote networking, and multi-luminaire-multi-remote networking.

重要安全提示！
Important safety tips!

请确保吊线的可拆卸插头与灯头拧紧后再通电！
Please ensure the detachable plugs of the Rope cables are tightened with the luminaire head before powering on!

吊线插头连接后，若接触不良会导致灯光闪烁并损坏内部电路！
Poor contact after connecting the rope cable plug can cause the light to flicker and damage the internal circuit !

如出现灯光闪烁的情况，请立刻断电，重新拧紧吊线插头后再通电！
If the light is flashing, please turn off the power immediately, turn on the power only after tighten the cable plug again.

安装过程中，请勿用力拉扯吊线，以防吊线绝缘层破损而漏电！
Do not pull the rope cables forcefully during the installation process, to prevent damage to the insulation layer of the rope cables and leakage of electricity!

注意！请确保吊线正负极连接正确！
Caution! Ensure the positive and negative poles are connected correctly!

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使用产品前请仔细阅读本说明！
Please read this instruction carefully before using the product!

如果您在使用灯具的过程中遇到了问题，请联系 LUMOCE 以获取技术支持。
Contact us if you need more help.

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