



Huizhou Wisva Optoelectronics Co.,Ltd

惠州市慧昊光电有限公司

|          |                                                                               |      |                                   |
|----------|-------------------------------------------------------------------------------|------|-----------------------------------|
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# Product Specification

产品规格书

Item No.:

HH-SWWW560F010W24-COB

产品型号:

Series: COB Series

产品系列: COB系列

| Confirmation/制作 | Approval/审核 | Audit/确认 | Date/日期 | Version/版本 |
|-----------------|-------------|----------|---------|------------|
| Eng. Harry D    | 何俊远         | 林延安      | Oct 15. | 1.1        |

Features(特征)

Chip on board design, up to 560 chips on single meter, only 3.57mm between each chips, more uniform and even lighting.

COB设计方案, 达到560颗芯片1米, 芯片间距只有3.57mm, 光更加均匀一致.

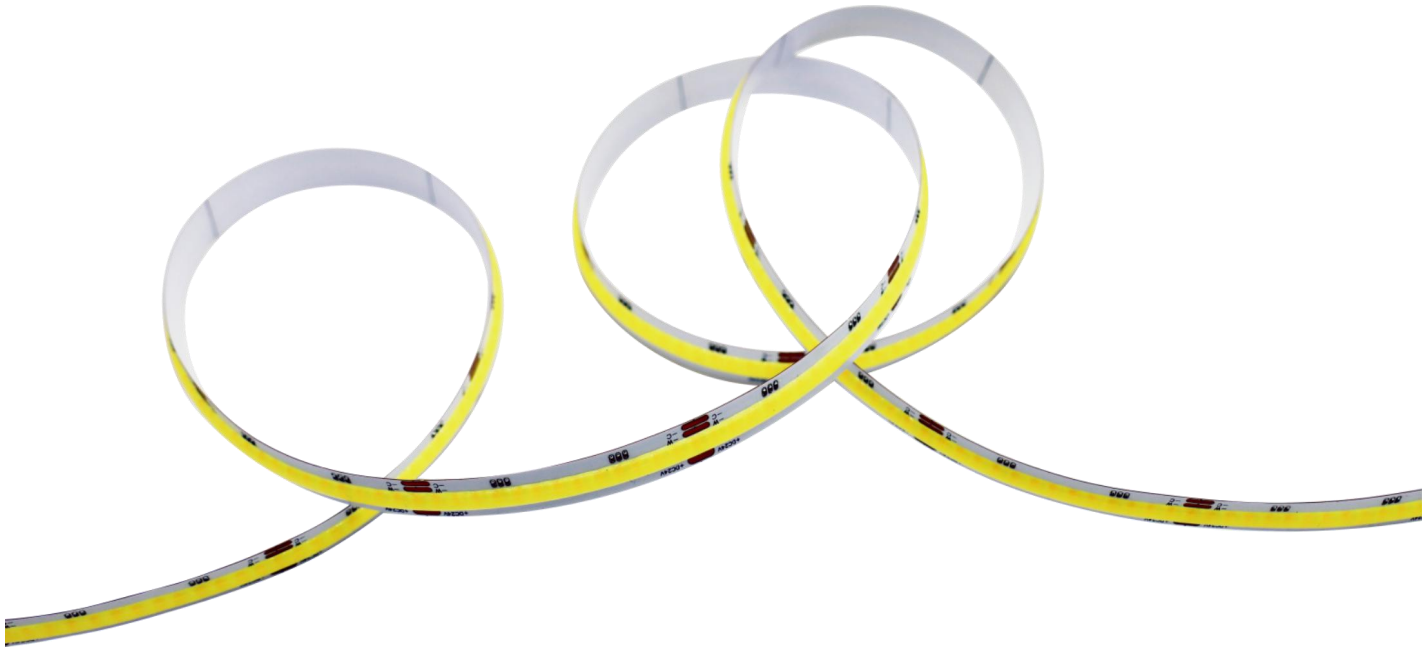
Support 0/1-10V, PWM, DALI dimming ways.

支持0/1-10V, PWM, DALI等调光方式

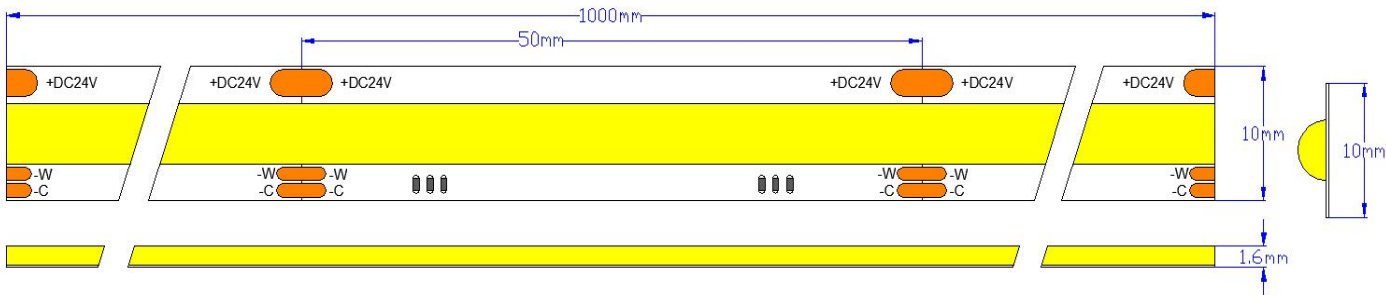
2oz double layer flexible FPC, balancing voltage drop, heat dissipation and flexibility.

2oz双面铜箔柔性FPC, 兼顾产品压降、散热及柔性.

Picture(图片)



Dimensions(尺寸)



Specifications(参数)

|               |                       |
|---------------|-----------------------|
| Item NO.      | HH-SWWW560F010W24-COB |
| 产品型号          |                       |
| Input Voltage | 24V                   |
| 输入电压          |                       |
| PCB           | 10mm, white           |
| 板子            |                       |
| Ra            | Ra 80+                |
| 显色指数          |                       |

|                     |                            |         |
|---------------------|----------------------------|---------|
| CCT                 |                            |         |
| 色温                  | 3000K                      | 6500K   |
| LED Chip/Meter      |                            |         |
| LED芯片/数量            | 280                        | 280     |
| Power               |                            |         |
| 功率                  | 8W/m                       | 8W/m    |
| Brightness          |                            |         |
| 亮度                  | 640Lm/M                    | 840Lm/M |
| Efficiency          |                            |         |
| 光效                  | 80Lm/W                     | 105Lm/W |
| Package Length      | 5 meters                   |         |
| 包装长度                |                            |         |
| Size                | Width: 10mm; Height: 1.8mm |         |
| 尺寸                  |                            |         |
| Cutting Length      | 50mm                       |         |
| 裁剪长度                |                            |         |
| Lifespan            | 50,000 H                   |         |
| 工作时长                |                            |         |
| Working Temperature | -20°C - 40°C               |         |
| 工作温度                |                            |         |
| Storage Temperature | -20°C - 45°C               |         |
| 储存温度                |                            |         |
| Warranty            | 3 years                    |         |
| 质保                  |                            |         |

\* The above measurements of watts, brightness and efficiency allowance tolerance ±10%.

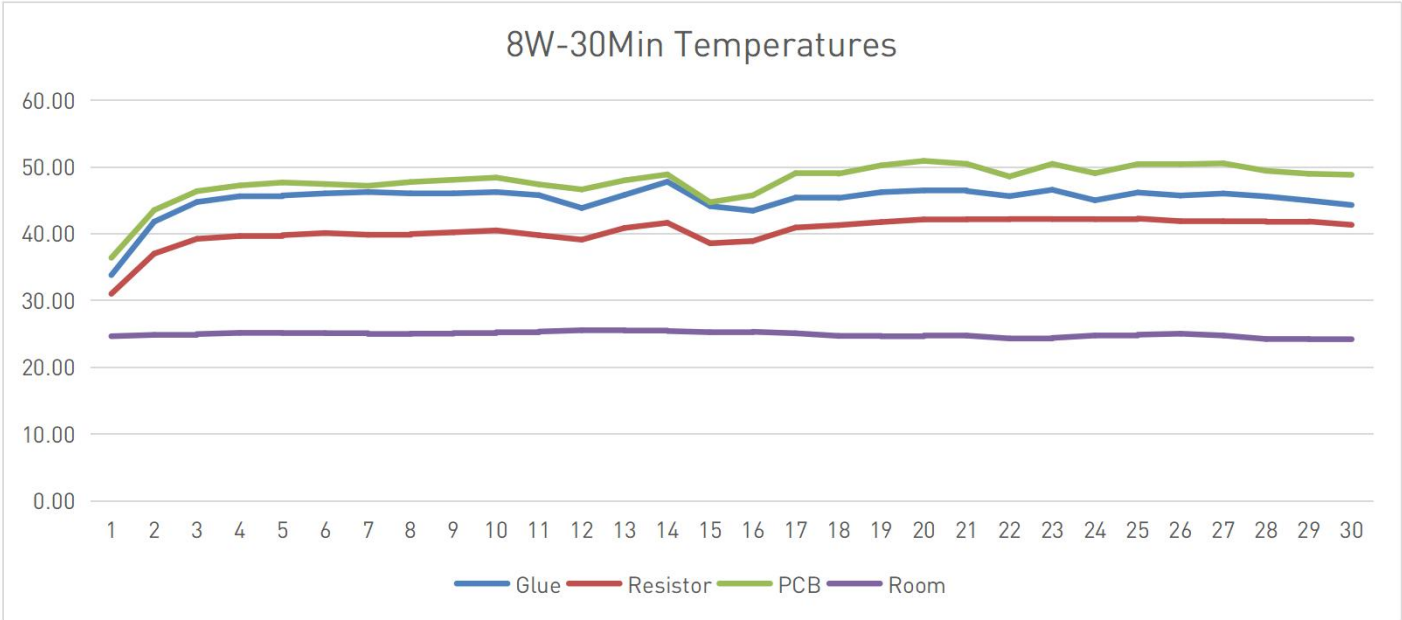
\* 以上功率和光效允许误差范围是±10%.

\* The above measurements are based on IP20.

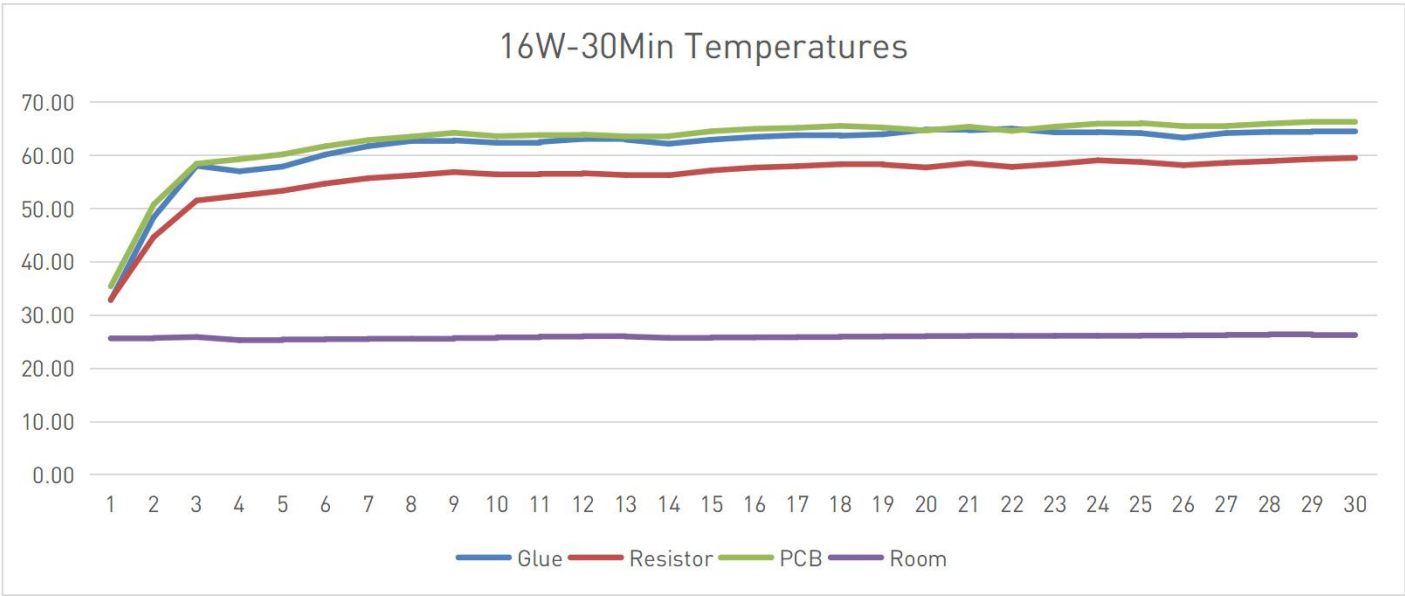
以上测量均基于IP20.

## Temperature Curve(温升曲线)

1) Single channel 8W temperature curve/单通道8W温升曲线



2) Dual white in full output 16W temperatures/双通道全输出16W温升曲线



\* The above curve based on 30 minutes testing data. The Temp. changes after powering within 30 minutes.

\* 以上的曲线基于30分钟的测试数据，显示通电之后30分钟的温度变化。

\* The x-axis indicates the minutes from 1st minute to 30th minute.

\* X轴表示时间从第1分钟到第30分钟。

\* The y-axis indicates the changes of temperatures in Glue, Resistor, PCB and Room.

\* Y轴表示胶水，电阻，PCB和环境温度变化。

\* Normally, this product work with CCT controllers, the controller will make this product running in 8W/m.

\* 通常情况下，该产品配合可调色温控制器使用，控制器会使得灯带的运行功率为 8W/米。

Brightness Consistency(亮度一致性)

Length/长度: the length of strip tested./测试的灯带长度

Voltage/电压: the voltage on each meter./每一米的电压

Lumen/流明: the brightness on each meter./每一米的亮度

Difference/亮度差: the brightness loss compared to the 1st meter./与第一米相比，亮度衰减了多少。

The following chart is based on 5m running./以下数据基于5米长度

|                |         |         |         |         |         |
|----------------|---------|---------|---------|---------|---------|
| Length/长度      | 1st m   | 2nd m   | 3rd m   | 4th m   | 5th m   |
| Voltage/电压     | 23.26   | 22.71   | 22.33   | 22.13   | 22.07   |
| Lumen/流明       | 1436.72 | 1282.60 | 1176.11 | 1120.07 | 1103.26 |
| Difference/亮度差 | 0.00%   | -10.73% | -18.14% | -22.04% | -23.21% |

The following chart is based on 4m running./以下数据基于4米长度

|                |         |         |         |         |
|----------------|---------|---------|---------|---------|
| Length/长度      | 1st m   | 2nd m   | 3rd m   | 4th m   |
| Voltage/电压     | 23.38   | 22.96   | 22.71   | 22.69   |
| Lumen/流明       | 1470.34 | 1352.65 | 1282.60 | 1276.99 |
| Difference/亮度差 | 0.00%   | -8.00%  | -12.77% | -13.15% |

\* The above measurements are based on powering on one side.

\* 以上测试均基于单端供电

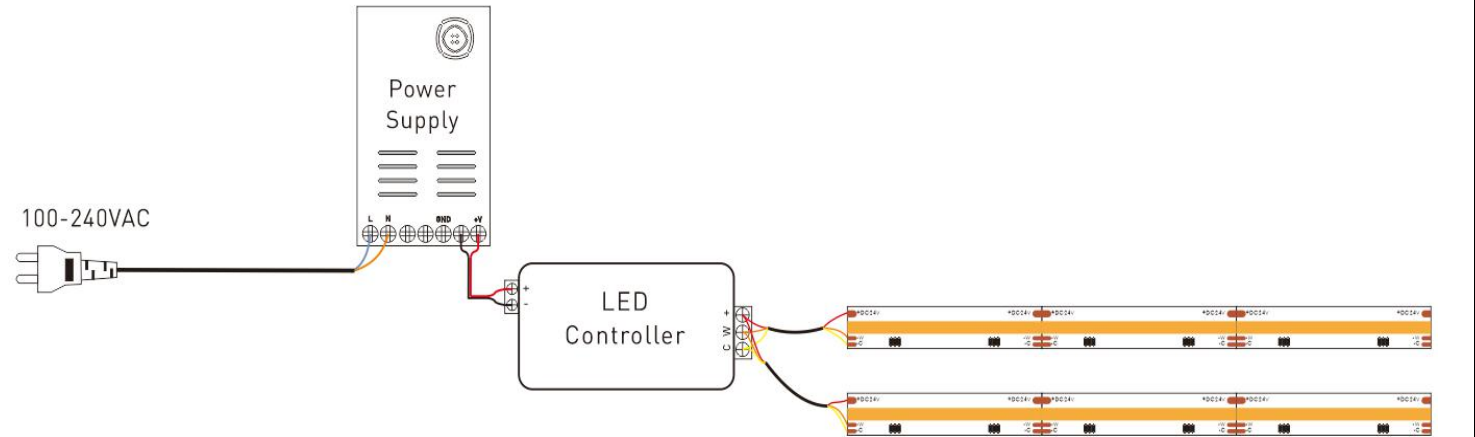
\* From above charts, when 5m connecting, it's 23% brightness drop on 5th meter compared to 1st meter.  
When 4m connecting, it's 13% brightness drop on 4th meter compared to 1st meter.

\* 从以上表格得知, 5米连接时, 第5米的亮度相比第1米降低23%; 4米连接时, 第4米的亮度相比第1米降低13%

Waterproof Ways(防水方式)

| Waterproof Ways                                                                   | IP Rating | Details                                         |
|-----------------------------------------------------------------------------------|-----------|-------------------------------------------------|
| 防水方式                                                                              | 防水等级      | 细节说明                                            |
|  | IP65      | Injected with Heat Shrink Tube or Silicone Tube |
|                                                                                   |           | 热缩套管或者硅胶套管防水                                    |

Installation Ways(安装方式)



\* Powering on one side, the max running length is 5 meters, for over 5 meters please connect in parallel.  
单端供电最大连接长度为5米, 超过5米时, 请并联.

\* Make sure of the total watts of COB Strip lights is less than 80% of the power supply's max output.  
确保灯带的总的功率小于电源输出功率的80%.

\* Match the polarities according to the mark ('+' and '-') in the PCB while connecting.  
连接时, 请对准PCB板上标注的极性.

Applications(应用)

\* Residential lighting, decorative lighting.  
住宅照明, 装饰照明.



## Package(包装)

①) 5 meters per roll.

3m一卷.

②) Each roll packed with anti-static bags, and label on it.

每一卷放入静电袋中, 静电袋表面贴标签.

③) 25 rolls into a inner box(30cm x 24cm x 26cm).

25卷放入一个内箱中(30cm x 24cm x 26cm).

④-⑤) 2 inner boxes into a large carton (50cm\*30cm\*29cm).

2个小箱放入一个大箱(50cm\*30cm\*29cm).

