



**Street Sign**

**IP65**



## ***CPD STREET SIGN***

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Our wholesale Custom Street signs are customized into size imaginable up to 4' x 8' . We manufacture our panels custom to size, and our wholesale rates have kept us #1 in the industry for 20+ years. CPD Street Signs are much different than the rest. Our 8mm thin frameless LED panels are used for back lighting and ambiance lighting around the world. We use the highest quality LED's and components and our panels have been used in every application around the world. Flat lighting fixtures are produced by edge lighting 8mm thin acrylic panels for a thin and uniform light source. Edge lighting is mainly used by architects who understand how this lighting can enhance their designs. This modern way of back lighting has been utilized by top notch designers around the globe as well as homeowners who simply want to add appeal to their project. Contact us today to discuss your ideas and see how we can illuminate your showcases.



### **ADVANTAGES:**

- Available in custom sizes & shapes
- Total sign width is 17mm thin(under 3/4")
- Pull-resistant design wire
- Long LED lifespan (50 000-75000 hours)
- Energy saving and maintenance free (70% energy savings over traditional lighting)
- Can be used in "frameless" designs
- Kelvins options (3000K/4000K/5000K/6500K)
- High brightness, Even and stable light quality
- Advanced 3 years warranty

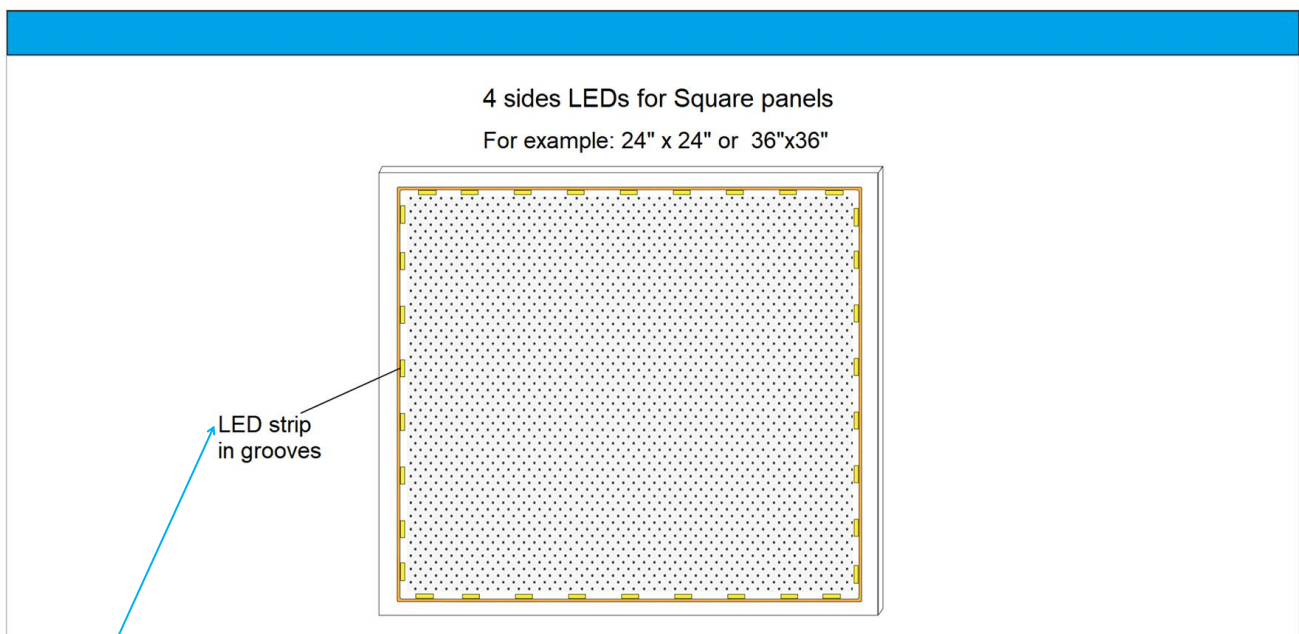
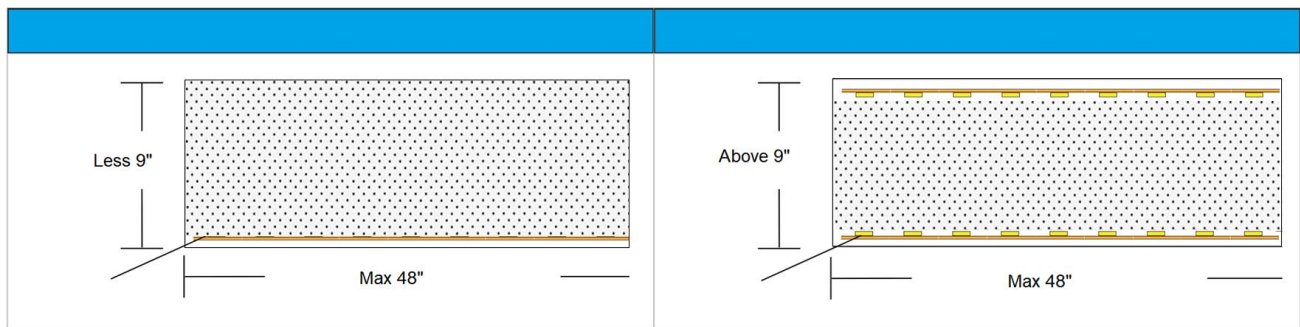
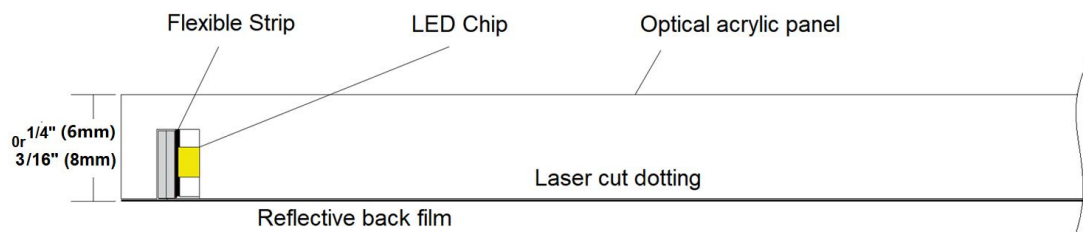
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## LED lighting solution

### Raw CPD Lite Tile 1/4" (6mm) light panel cut view&top views



**\*Custom LED strips brightness design\***

IP22, PCB board width 5/32", 3W per 1ft.

IP65, PCB board width 1/4", 3.3W per 1ft.



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## Specifications

| ELECTRICAL Specifications    |                                                               |
|------------------------------|---------------------------------------------------------------|
| Input Voltage                | 12 volt / 24 volt power supply depending on your requirement. |
| Wattage                      | 10.8W per 40 inches LED strip                                 |
| LED Color Temperature        | 6500K                                                         |
| Wire size                    | 20AWG (Pull-resistant design wire)                            |
| Shape and size               | Regular round or Square largest size is 48" x 48"             |
| Thickness                    | 1.2mm PC with 3M film+LGP 5/16"(8mm) + 1mm ABS panel          |
| Edge                         | U-Shape rubber edge cover                                     |
| Wire coming from Sign        | Waterproof connector to power supply                          |
| Material Front Side of Panel | PC board with UV print logo on 3M film                        |
| Material Back Side of Panel  | High quality reflecting ABS sheet                             |
| Power Supply                 | UL Listed Power supply                                        |
| Installation solution        | Metal Zip-tie stripes are fastened to the pillar              |

## Power supply Specification



### Features:

- ·Output constant voltage. Input voltage range 100-277VAC
- ·Built-in PFC function, PF> 0.98, Efficiency > 87%
- ·Protections:short circuit/over voltage/over heat
- ·Cooling by free air convection. Suitable for LED lighting and moving sign applications
- ·Compliance to worldwide safety regulations for lightings.
- ·UL/cUL listed, Class P, Type HL approval

|             |                                                                                                                                                                                                                  |                                                                                |               |             |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------|-------------|
| Output      | DC Voltage                                                                                                                                                                                                       | 12V                                                                            | 24V           |             |
|             | Voltage Tolerance                                                                                                                                                                                                | ±0.5V                                                                          | ±0.5V         |             |
|             | Rated current                                                                                                                                                                                                    | 8.00A                                                                          | 4.0A          |             |
|             | Voltage Regulation                                                                                                                                                                                               | ±0.5%                                                                          |               |             |
|             | Rated power                                                                                                                                                                                                      | 100W                                                                           | 96W (class 2) |             |
|             | Load Regulation                                                                                                                                                                                                  | ±1%                                                                            |               |             |
| Input       | Voltage Range                                                                                                                                                                                                    | 100-277VAC                                                                     |               |             |
|             | Frequency Range                                                                                                                                                                                                  | 47-63Hz                                                                        |               |             |
|             | Power Factor(Typ.)@ full load                                                                                                                                                                                    | 0.99@120VAC                                                                    | 0.97@230VAC   | 0.97@277VAC |
|             | THD(Typ.)@ full load                                                                                                                                                                                             | <15%@120VAC                                                                    | <20%@230VAC   | <20%@277VAC |
|             | Efficiency(Typ.)@ full load                                                                                                                                                                                      | 83% @ 120VAC                                                                   | 88%@230VAC    | 87%@277VAC  |
|             | AC Current(Max.)                                                                                                                                                                                                 | 1.5A@ 100VAC                                                                   |               |             |
|             | Inrush Current (Typ.)                                                                                                                                                                                            | 20A, 50%, 1.6ms@ 120VAC; 30A,50%,200us@230VAC;<br>25A,50%, 1.2ms@277VAC        |               |             |
|             | Leakage current                                                                                                                                                                                                  | <0.50mA                                                                        |               |             |
| Protection  | Short Circuit                                                                                                                                                                                                    | shut down o/p voltage, re-power on to recover after fault condition is removed |               |             |
|             | Over Loading                                                                                                                                                                                                     | ≤120% constant current limiting, auto-recovery                                 |               |             |
|             | Over temperature                                                                                                                                                                                                 | 100℃±10℃ shut down o/p voltage, automatically recover after cooling.           |               |             |
| Environment | Working TEMP.                                                                                                                                                                                                    | -40~+60℃ (see below derating curve)                                            |               |             |
|             | Working Humidity                                                                                                                                                                                                 | 20~90%RH, non-condensing                                                       |               |             |
|             | Storage TEMP. Humidity                                                                                                                                                                                           | -40~+80℃, 10~95%RH                                                             |               |             |
|             | TEMP .coefficient                                                                                                                                                                                                | ±0.03%/℃(0~50℃)                                                                |               |             |
|             | Vibration                                                                                                                                                                                                        | 10~500Hz, 5G 10min./ 1 cycle,period for 60min. each along X,Y,Z axes           |               |             |
| Safety&E MC | Safety standards                                                                                                                                                                                                 | UL8750+UL1310                                                                  |               |             |
|             | Withstand voltage                                                                                                                                                                                                | I/P-O/P:1.88KVAC                                                               |               |             |
|             | Isolation resistance                                                                                                                                                                                             | I/P-O/P:100MΩ/500VDC/25℃/70%RH                                                 |               |             |
|             | EMC EMISSION                                                                                                                                                                                                     | FCC Part 15 B                                                                  |               |             |
|             | Size&Weight                                                                                                                                                                                                      | 230*70*43mm (L*W*H) / Net Weight 1.05Kg                                        |               |             |
|             | packing                                                                                                                                                                                                          | 329*279*176mm , 10PCS/ctn                                                      |               |             |
| Notes       | 1. All parameters if NOT specially mentioned are measured at 120VAC input , rated load and 25℃of ambient temperature.<br>2. To extend the driver's using life ,please reduce the loading at lower input voltage. |                                                                                |               |             |

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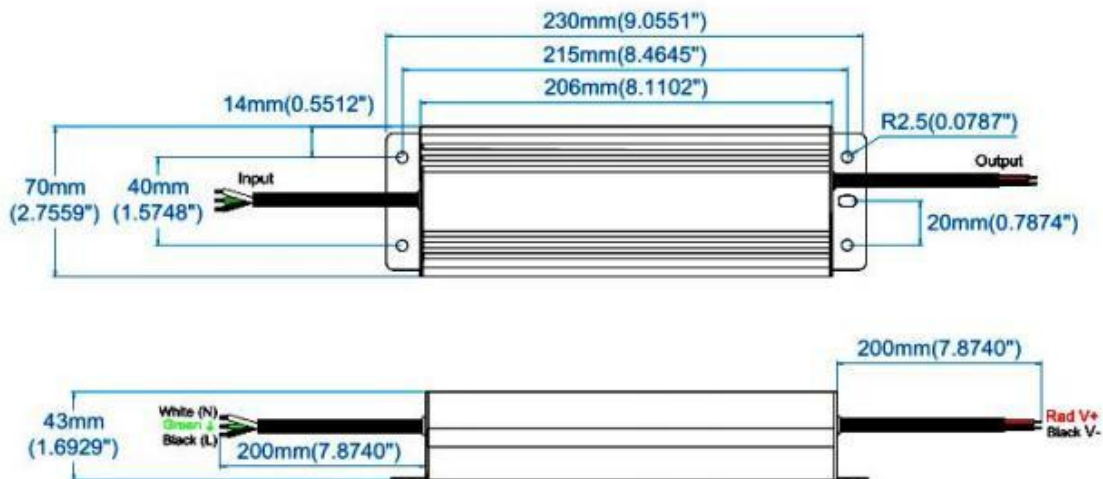
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### ■ Mechanical Specification:

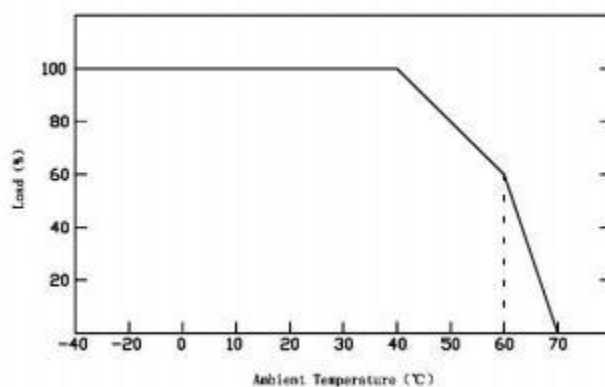
Unit: mm

Tolerance: P 0.5-2mm



Input Rubber wire 3\*18AWG Black and White to be connected to AC L and N ,Green wire go ground,  
Output Rubber wire, 2\*16AWG Red to LED Positive side (+) , Black to LED Negative side (-).

### ■ Derating Curve



➤ Load carried in accordance with the load derating curve, according to the ambient temperature derating, in order to extend the working life.





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## Logo Solution

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UV printing on PC front panel with 3M film

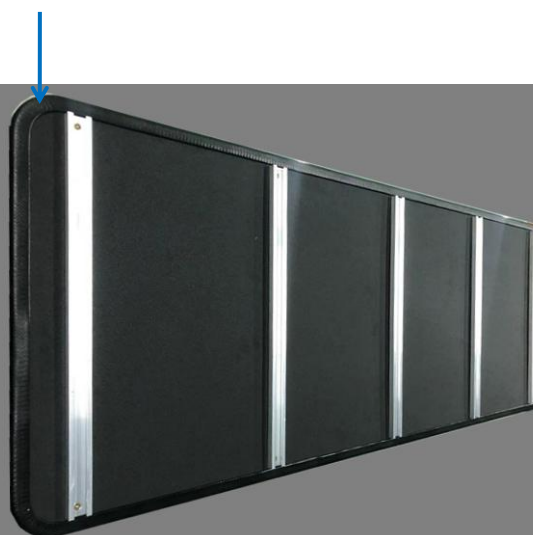


## Installation:

Aluminum backer stripe



Proprietary frame



Steel fasten stripe



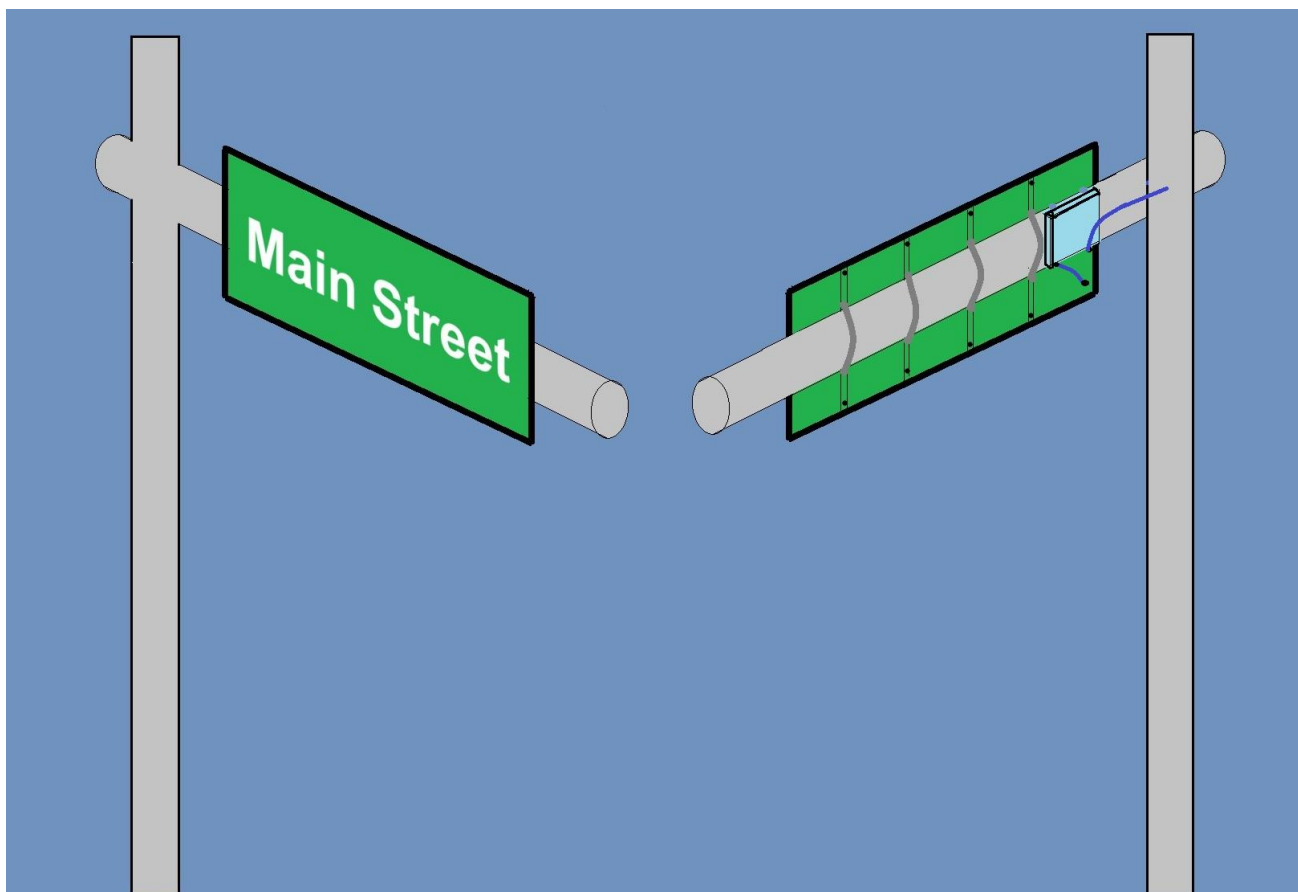
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## Application

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## Power supply with ON/OFF (IP65)





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### Wiring from Bottom of the Rainproof box



### Stainless Steel fasten stripes



### Waterproof connectors



### Backside with strip hangers







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## Application

