

LED Boards & Driver Sets Industrial Spray Booth Lighting

Designed and developed specifically for spray booth applications



Performance. interLED have designed and developed a unique LED board and driver set for use in spray booth applications where typically high lux requirements are specified. We have now been providing this system with great success for over 5 years to some of the UK's leading spray booth manufacturers. **Environment.** The design of the board utilises an aluminium substrate which has been thermally designed to act as a heat sink for the LED chips, thus prolonging the life of the components and allowing greater scope in retro-fit applications. LED chips on traditional PCB boards should not be placed within an existing housing or a fitting designed for use with fluorescent lamps. This may appear to be an inexpensive option at the outset but will cause the LEDs to overheat resulting in a rapid drop in luminous flux and early failure.

We have opted for a large array of low powered LEDs in lieu of the much cheaper alternative of high powered or COB LED. This has the advantage of reducing glare considerably by spreading the light across the full width of the board. **Options.** The LED boardset comprises of 2 LED boards and a single LED power supply driver. Our customers usually install the boards within their existing booth lighting housing. The boards are 585mm long to facilitate accommodation into most existing booth lighting systems. For optimum performance and reduction of glare we recommend the booth manufacturer installs a toughened frosted glass diffuser in front of the LED boards. The LED driver should be sited outside of the booth.

Typical achievable lux within a booth is 1500 – 3000 lux, although all scenarios can be accommodated. interLED can provide lighting design simulations to ascertain the position and number of lights required within the booth.

■ **2 x LED Boards + 1 x Meanwell Driver = 1 Set**

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Technical Specifications

- Automotive industry, spray & re-finishing business sectors
- Mounting heights typically 2 – 6m
- Over 10,000 lumens per boardset
- 98 Watts total power
- 100,000 hours life for LED boards
- Colour temperature; 5000k
- CRI>80
- 100 lumens per Watt
- Each board measures; 585x100mm
- Operating temp. range -30° - +50°C
- Meanwell Driver
- 1-10v dimming option
- Warranty: 5 years on LED Board + 3 years on driver
- Power factor > 0.9