Double Side LED Sign Tube

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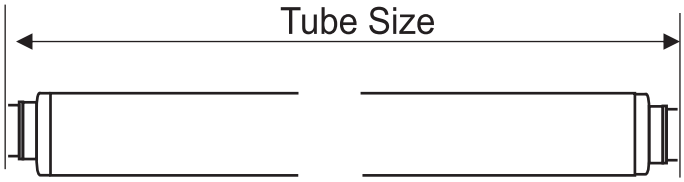


NO EXTERNAL DRIVERS NEEDED
Every bulb has built in driver

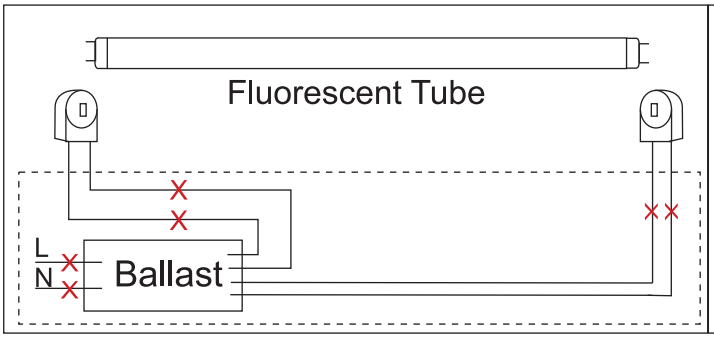
FEATURES

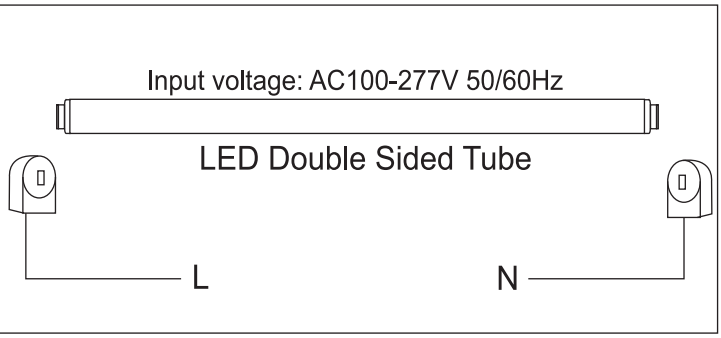
- **RETROFIT KIT-** Super Bright, efficient LED light. Lower energy consumption.
- **INTERNAL POWER SUPPLY-** No need for an External LED Driver or Ballast.
- **HEAT DISSIPATION-** Super heat dissipation structure, lower luminous decay, longer life span.
- **TWO SIDE ILLUMINATION-** Circular tube with two sided LEDs, creates a wider illumination and it's an ideal solution for pylon & monument signs.

SPECIFICATIONS

Input Voltage	**AC100-270V**
Operating Frequency	**50/60 Hz**
PF	**>0.9**
CCT	**6000K**
CRI	**80Ra**
Power Efficiency	**>90%**
Related Life	**50,000Hrs**
Warranty	**5 YEARS**

INSTALLATION INSTRUCTION





1. Remove the diffuser (if applicable) and Florescent lamp, Cut off all wires connected to Ballast.
2. Install Sign LED in place & Connect Power as shown above.

* 5 year warranty includes the replacement of Bulb Driver only- Labor and shipping not included

PARAMETERS

MODEL NAME	TUBE SIZE	INPUT VOLTAGE	WATTAGE	LUMENS	COVER
IP-L18-2S-D-1	F18	AC100-270V	7W	910lm	Clear
IP-L24-2S-D-1	F24	AC100-270V	13W	1560lm	Clear
IP-L30-2S-D-1	F30	AC100-270V	13W	1690lm	Clear
IP-L36-2S-D-1	F36	AC100-270V	16W	2080lm	Clear
IP-L42-2S-D-1	F42	AC100-270V	21W	2700lm	Clear
IP-L48-2S-D-1	F48	AC100-270V	21W	2730lm	Clear
IP-L60-2S-D-1	F60	AC100-270V	28W	3640lm	Clear
IP-L64-2S-D-1	F64	AC100-270V	28W	3640lm	Clear
IP-L72-2S-D-1	F72	AC100-270V	38W	4750lm	Clear
IP-L84-2S-D-1	F84	AC100-270V	38W	4750lm	Clear
IP-L96-2S-D-1	F96	AC100-270V	51W	6630lm	Clear
IP-L108-2S-D-1	F108	AC100-270V	51W	6630lm	Clear
IP-L117-2S-D-1	F117	AC100-270V	60W	8450lm	Clear
IP-L120-2S-D-1	F120	AC100-270V	60W	8450lm	Clear

NOTE: Tube sizes are perfectly correlated with Florescent tubes, for hassle free installation

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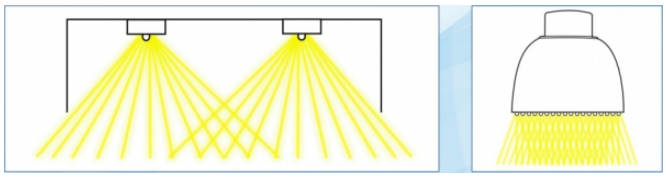
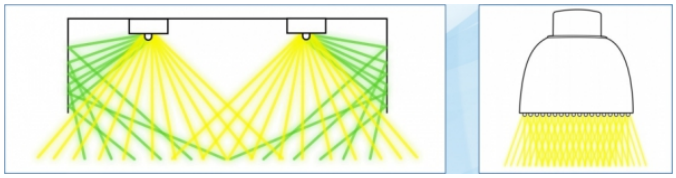
FACTS:

LUMENS

Total Lumens vs. Delivered Lumens

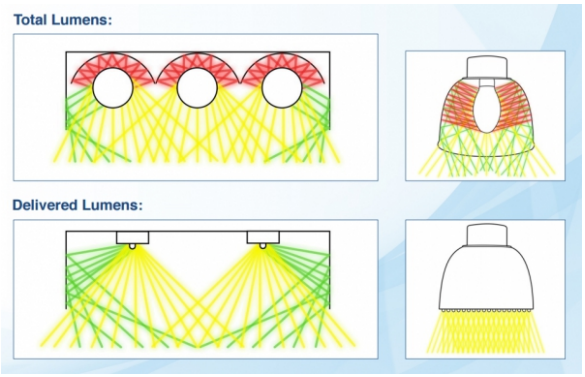
Total lumens is a measure of the total quantity of light given out by a light source. Omni-directional light sources require up to 78% of the light output to be redirected. A majority of these reflections from the light source are directed back into the fixture. When looking at the light output that does reach the application area after being reflected, consider that energy is lost and compounded with every reflection. Most light traces require multiple reflections before hitting the application surface. Ultimately, less than 14% of the source lumens trace directly to the work surface.





Delivered lumens is used primarily with directed light sources. With these light sources, 80% of total lumen output is delivered directly to the work surface. The remaining 20% are reflected only once to the target. Overall, more than 94% of mono directional lumens are delivered. None of the lumens are reflected back into the fixture.

Delivered light aka delivered lumens describes how much useful light a light fixture can deliver to a given area, discounting any wasted light. As detailed above, light can be wasted in any number of ways. It can be emitted in a direction away from the application area, it can be partially blocked or dispersed within the fixture housing, or it can be lost through filtering, lensing, fixture position, or other factors related to the specific installation.



LED lighting fixtures being fundamentally directional, LED fixtures typically waste much less light compared to traditional counterparts. This allows them to deliver more of their total light output to the target area. Therefore, an LED light fixture with a lower rated lumens may deliver the same or more useful light in a specific application than a comparable traditional lighting fixture that has a higher rated lumen output.

All of this shows that instead of lumen output, the best and most relevant measurement for evaluating LED light fixtures and for making accurate comparisons with traditional light fixtures is delivered light.

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