

WAL-SL-51-PAR38-LED-12.4

510' Temporary Tunnel String Light - 51 LED PAR38 Work Lamps - 277V - 12/4 SJTW Cable - Daisy Chain

Product ID: 105719

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



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WAL-SL-51-PAR38-LED-12.4 String Lights

Lamp Type: LED
Lamp Quantity: 510
Lamp Watts: 25 watts
Total Watts: 1,275 Watts
Lumens: 127,500 (2,500 per lamp)
Voltage: 277V AC
Total Length: 510'
Wiring: 10' 12/4 SJTW Cable Per Unit, 5' Whips
Cord Caps: L22-20P and L22-20C Twist Lock
Mounting: Eyelet for hook mounting
Shipping Dimensions: 32" x 40" x 40"
Shipping Weight: 250 lbs.

Features

Lower Amp Draw
Wet Area Approved
High Output 25 Watt LED Lamps
Daisy Chain Connection (End to End)
510' per String - Max Spanning 2,040'
127,500 Lumens of Total Illumination

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics WAL-SL-51-PAR38-LED-12.4 Temporary Tunnel LED Lighting String Light System is designed for high output illumination and daisy chain connections across a total length of 510' away from the power source. The 25 watt PAR38 LED lamps on this work site light set provide more and higher quality light than 300 watt rough service lights

while creating less heat and using less power. This LED light stringer operates on 277V AC and provides operators with a temporary work light solution for tunnels and underpasses up to 2,000` in length.

This temporary tunnel string light consists of 51 industrial grade PAR38 LED lamps with 10` of 12/4 SJTW cable between each unit, stretching a total of 510` in length. This temporary LED string light is connected to a 277V power source via an integrated 5` line-in cable. Each globe light is equipped with a high output LED PAR38 bulb which delivers more light output than 300 watt rough service bulbs and 150 watt PAR38 halogen lamps. The 25 watt LED bulb draws less than 10% the electrical power of a standard 300 watt bulb and less than 20% of standard 150 watt PAR38 lamps, making it suitable for tunnel and temporary lighting applications where long spans are required. Each LED light screws into a molded E26 lamp socket.

Fifty-one high output PAR38 style LED lamps producing 2,500 lumens per lamp provide a total of 127,500 lumens of bright white illumination. Each lamp housing is constructed from light weight aluminum, and fitted with an impact and shatter resistant polycarbonate diffuser. These LED light bulbs provide additional safety measures and time savings, given the low heat production and that it does not require replacing for 50,000 hours. Since the LED bulb uses solid state technology, the vibration (dropping, etc.) that degrades conventional incandescent bulbs is not an issue with these LED bulbs.

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Unlike the glass tube design of traditional fluorescent lamps, these LED lamps have no filaments or fragile housings to break during operation. Instead of using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, emitting light. With LED lights, there is no warm up time or cool down time before re-striking and they provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than fluorescent lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional fluorescent lighting.

Safety within the workplace is another benefit of LED work lights and temporary lighting. All light sources produce heat. With traditional work lamps, such as incandescent and halogen light sources, the lamp reaches high surface temperatures. These surface temperatures introduce a burn risk to anyone that allows prolonged skin contact with the light source, as well as a fire hazard if a flammable material is accidentally set too close to the light source for an extended period of time. While LED fixtures still produce heat, they are designed with heat sinks to properly disperse the heat. Each LED bulb is engineered to disperse and expel this heat quickly and efficiently, keeping the lamp cooler than traditional light sources. This LED work light operates at a lower surface temperature than a comparable model with a traditional light source, and thus does not present a significant burn risk if an operator or bystander accidentally brushes up against an exposed lamp, and reduce the fire hazard should the fixture accidentally come in contact with a flammable material for a short period of time. This significantly increases the safety within the work environment.

Each light has a hook eyelet that allows operators to hang these task lights overhead. Utilizing energy efficient LED lamps, operators are able to provide more light coverage from the same amp draw, or lower the amp draw using the same amount of LED lamps as incandescent, compact fluorescent, or halogen lamps. Each LED work light has an effective range that approximately covers a 10-12` radius with 20-30 foot candles of light when mounted at 10-15` above the work environment. Unlike fragile incandescent and compact fluorescent lamps that are made from glass, these LED bulbs are extremely durable and can live up to the abuse of harsh working conditions. With a lamp life of 50,000 hours, operators are not constantly having to replace burnt out or broken lamps, reducing down time

and lowering the amount of spare lamps required at the job site. Multiple stringer sections can be daisy chained together via 5` whips terminated in twist lock connectors, with a maximum of four stringers daisy chained together. Alternating hots between each daisy chained unit allows these string lights to be connected together, spanning up to 2,040` in length. Previously, it would have been unrealistic to have a complete assembly reaching 510` in length from a single point of power.

Stringer Energy Consumption Comparison (Single Stringer)

	<u>Incandescent</u>	<u>Halogen</u>	<u>LED</u>
Wattage (Single Lamp)	300 watts	150 watts	25 watts
Wattage (Stringer Total)	15,300 watts	7,650 watts	1,275 watts
Amp Draw @ 277V AC	55.24 amps	27.62 amps	4.61 amps
Lamp Life Expectancy	10,000 hours	8,000 hours	50,000 hours
Color Temperature	2800K	4300K	6000K
Operation cost per day (12hs/day @ 12c/kWh)	\$22.04	\$11.02	\$1.84
Operation cost per month (12hs/day @ 12c/kWh)	\$660.96	\$330.48	\$55.08
Operation cost per year (12hs/day @ 12c/kWh)	\$8,041.68	\$4,020.84	\$670.14

This LED string light is capable of saving several thousands in energy consumption alone over the course of a year. When compared to incandescent and halogen temporary lighting, this LED string light has the potential to save upwards of \$7,000 per year in energy savings only, not including maintainer and labor savings over traditional light sources. This unit provides a return on investment in a very short period of time, as short as a year and a half (depending on days and hours the unit is in use).

Stringer Energy Consumption Comparison (Six Stringers)

	<u>Incandescent</u>	<u>Halogen</u>	<u>LED</u>
Wattage (Single Lamp)	300 watts	150 watts	25 watts
Wattage (6 Stringers Total)	91,800 watts	45,900 watts	7,650 watts
Amp Draw @ 277V AC	331.41 amps	165.71 amps	27.62 amps
Operation cost per day (12hs/day @ 12c/kWh)	\$132.20	\$66.10	\$11.02
Operation cost per month (12hs/day @ 12c/kWh)	\$3,965.76	\$1,982.88	\$330.48
Operation cost per year (12hs/day @ 12c/kWh)	\$48,250.10	\$24,125.00	\$4,020.84

Please note: This string light is not capable of supporting 300 nor 150 watt lamps for a single stringer nor multiple stringers due to cable restriction and overloading the cable. These comparison charts are for references only. To be able to achieve the same results with traditional light sources, higher amp capacity cable would be required or shorter runs per string light assembly. To be able to achieve the same distance, multiple power sources would be required for the total length of the area that requires being illuminated.

Also note that for incandescent and halogen lamps, due to voltage loss over distance, the light from start to end of the single string light, with the lamps at the tail end of the stringer being nearly half the light output as the ones at the head end of the string light by the power source. For compact fluorescent lamps, this would require bulbs with internal ballasts that are universal voltage and capable of auto sensing voltage and adjusting accordingly. Otherwise the lamps will stop operating properly or fail prematurely after a certain distance due to voltage drop

The LED string lights from Larson Electronics have been designed to overcome the above difficulties and faults with traditional lighting. This allows operators to run a single strand of string lights within the work area and span long distances from a single power source and work around voltage drop without sacrificing light output. This feat would not be possible with above traditional light sources without increasing cable size, weight of the unit, number of power sources required to span the same distance, while providing more light output within the work space.

These LED lamps are suitable for wet areas, extremely long lived, resistant to damage from impacts and vibrations, and consume far less energy than standard lamps. This tunnel string light is configured to operate with 277 volt electrical current. The LED lamps provide more and better quality illumination than 300 watt incandescent and 150 watt halogen string lights without the high heat and fragile glass construction of traditional lamps. With the low energy requirements of LED lamps, mile long assembly units are now physically possible.

Lamp Features

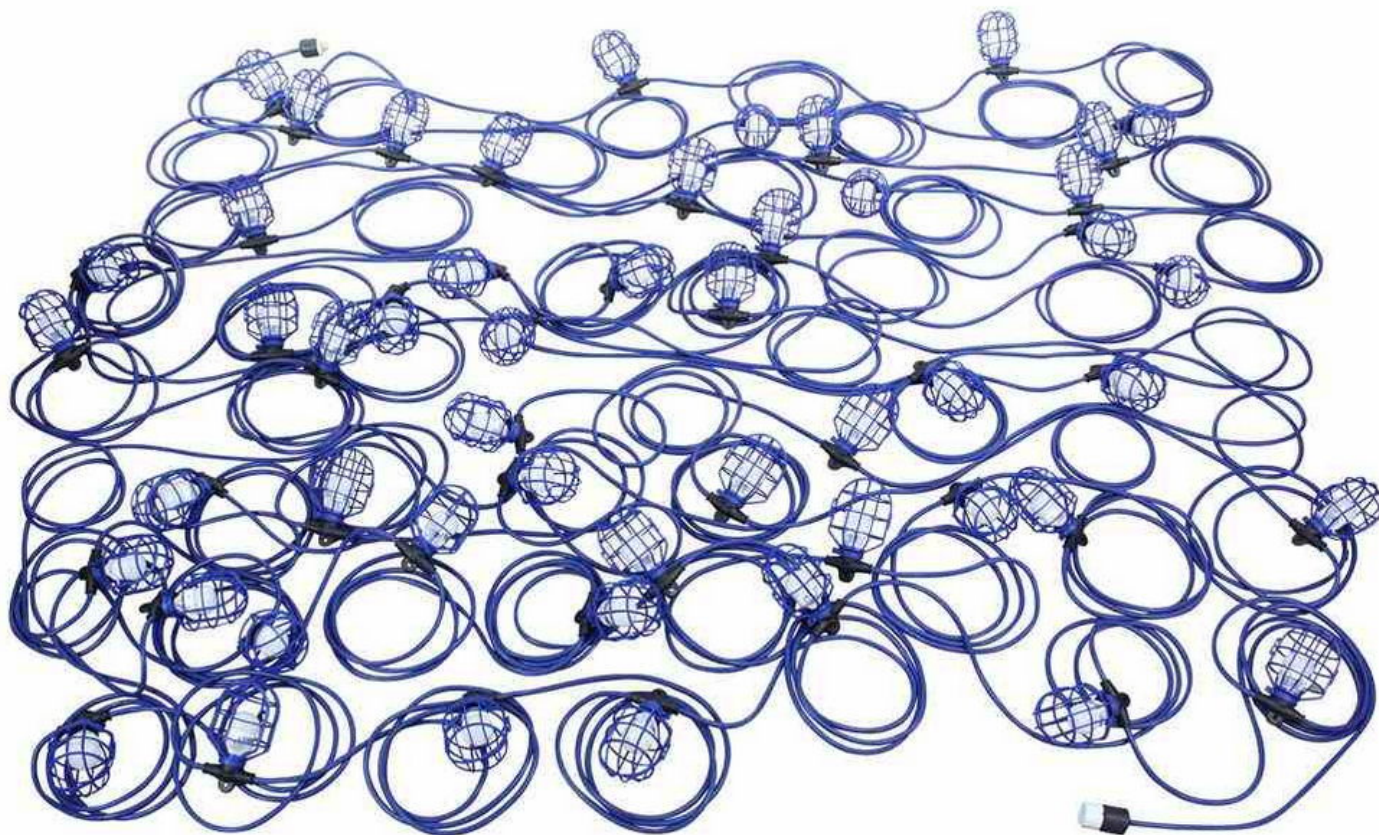
1. 25 Watt LED Lamps
2. 51 Lamps for a total of 1,275 watts spanning 510` in length.
3. 2,500 lumens per lamp for a total of 127,500 lumens.
4. High output LED lamps provide bright white illumination and better color rendering compared to the dingy yellow tint of traditional incandescent lamps.
5. Outdoor approved equipment.
6. No ballast, no flickering, instant on illumination
7. 277V AC Operation
8. Durable solid state LED construction resists damage from impacts and vibrations.
9. Hanging hook for hanging and hands free operation.
10. 10` of 12/4 SJTW cable between each light.
11. 510` span of temporary LED work lighting.
12. Daisy chain operations allows connecting multiple stringers together for maximum work site illumination, while aiding in servicing, storage, and transport of the tunnel light system.
13. Energy efficient alternative to incandescent and compact fluorescent temporary string lights.

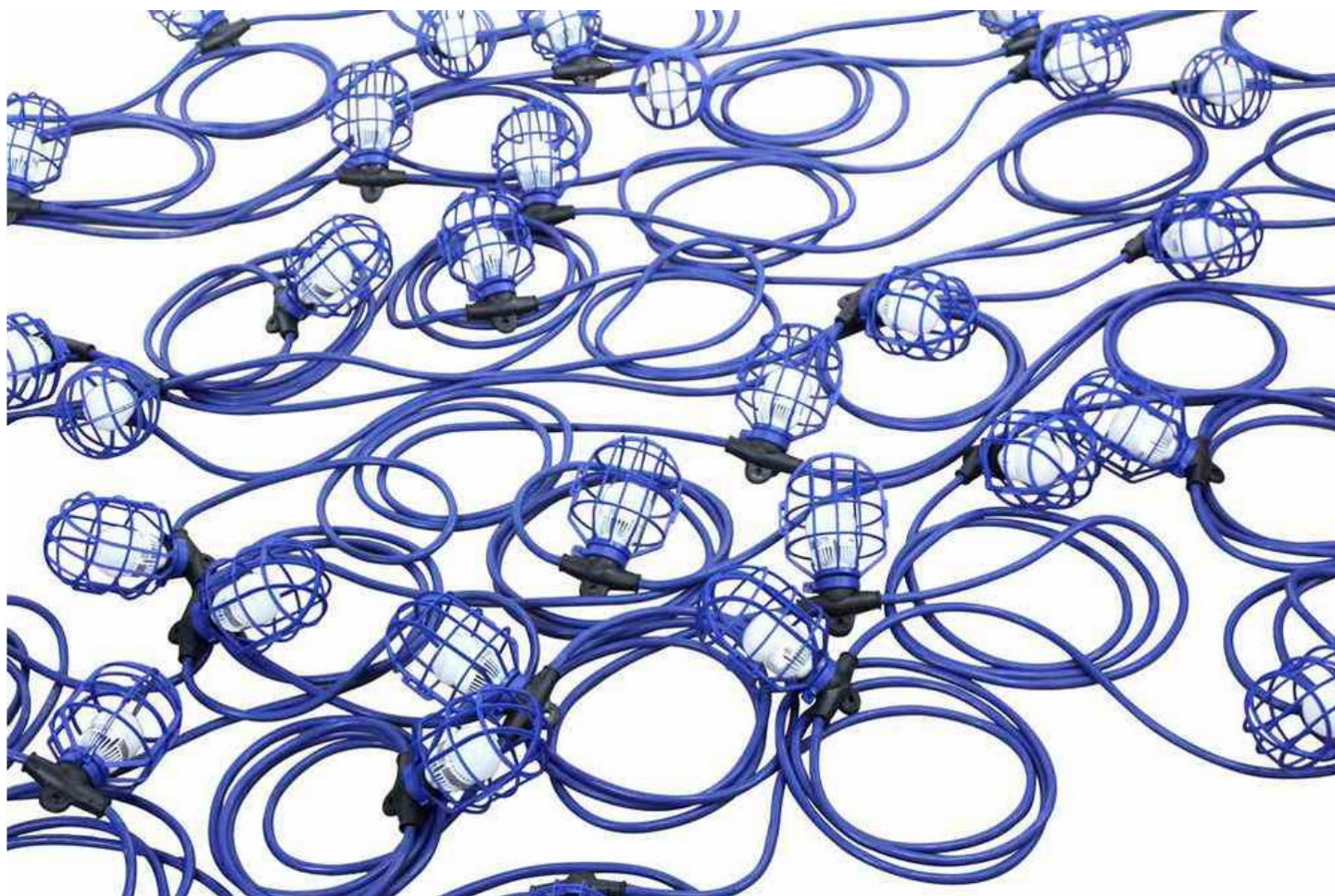
Superior LED Benefits

1. 50,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off – No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.



Frequently Asked Questions (FAQ)









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Product ID: 105719

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

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