



**ENERGY EFFICIENT  
LIGHTING FOREVER**

# Creates a natural & comfortable world

Our solutions area



Industrial & Warehouse Lighting



Hazardous Area Lighting



Roadway Lighting



Retail & Office Lighting



General Area Lighting



Solar Power Systems

## Why TEJASLITE ?



HIGH EFFICIENT LED  
(>140 LUMEN/WATT)



BIS APPROVED  
LED DRIVER



MINIMUM TWO YEARS  
WARRANTY



LOW THD, HIGHER PF, HIGHER CRI,  
HIGH SURGE PROTECTION  
LED DRIVER



OFFER WITH COMPLETE SOLUTION  
LIKE ENERGY AUDIT, RETROFIT  
SOLUTION, CUSTOMIZED LIGHTING



DIRECT SERVICE SUPPORT

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## PROFILE

**Tejaslite Lighting Solutions Private Limited** is a part of Adhiam Group of companies. Adhiam incorporated in the year 2005 with focus on thermal engineering and later have expanded towards energy-efficient solutions in the field of solar and LED lighting.

**Tejaslite** is one of the leading manufacturer of high quality LED luminaries, located in Chennai with state of art production facility. With over 10 years of Experience in Industrial and domestic LED lighting Industry, we are committed to manufacture with high quality products created with innovation and functionality for both interior and exterior application. An in-house research and development team and design department with its experienced engineers allow us to define new trends in LED lightings.

We can achieve our low defect percentage by collaborating with leading market suppliers for our components. Tejaslite's key partners include Seoul Semiconductors, Cree, Nichia, Lumileds, Osram for LED chips and Philips, Fulhom, Osram, Meanwell for drivers.

**Tejaslite Lighting Fixtures** are extremely versatile and are specialized in custom-built and retrofit solutions.

**Tejaslite** focus on customer satisfaction while meeting Low Power consumption, High Economic Value and Green Environmental goals.



# LED STREET LIGHT

- ❖ Elegantly designed high grade aluminum pressure die cast powder coated housing with toughened glass cover.
- ❖ Different optics for different beam pattern with high spread using high quality lenses and reflector for glare free uniform light distribution.
- ❖ Excellent thermal management - Ideal heat dissipation with good quality heat sink.
- ❖ LED driver designed with low THD, high surge protection, short circuit and open circuit protection & operate wide input voltage range for long life and sturdy performance.



 AC 100-270V 50/60Hz	 >50000hr	 Power Factor >0.9	 >130lm/W
 CRI>75	 -20 to 50 Degree	 Save >50% energy	

Part No	Power	Flux	CCT	Beam Angle	LUX/FT
TSWSL-122	12W	>1440lm	3000K/6500k	150 * 60	>12 / 9ft
TSWSL-202	20W	>2400lm	3000K/6500k	150 * 60	>16 / 12ft
TSWSL-302	30W	>3600lm	3000K/6500k	150 * 60	>20 / 12ft
TSWSL-402	40W	>4800lm	3000K/6500k	150 * 60	>25 / 15ft
TSWSL-522	55W	>6600lm	3000K/6500k	150 * 60	>30 / 18ft
TSWSL-802	80W	>9600lm	3000K/6500k	150 * 60	>35 / 24ft
TSWSL-1002	100W	>12000lm	3000K/6500k	150 * 60	>30 / 30ft
TSWSL-1502	150W	>18000lm	3000K/6500k	110	>33 / 40ft

## ECO SERIES

Available 6w 12w 20w 40w 60w 80w 100w 150w 200w  
(Without secondary optics)

## Application



High ways



Express ways



Industry



Residential



Sports



Public



Open area

# LED LOW / HIGH BAY LIGHT

- ❖ Elegantly designed high grade aluminum pressure die cast powder coated housing with toughened glass cover.
- ❖ Precise narrow beam and wide beam optics for indoor industrial requirement.
- ❖ Excellent thermal management - Ideal heat dissipation with good quality heat sink.
- ❖ LED driver designed with low THD ,high surge protection, short circuit and open circuit protection & operate wide input voltage range for long life and sturdy performance.
- ❖ High luminous efficiency & low power consumption.



 AC 100-270V 50/60Hz	 >50000hr	 Power Factor >0.9	 >130lm/W
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 CRI>75	 -20 to 50 Degree	 Save >50% energy
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Part No	Power	Flux	CCT	Beam Angle	LUX/FT
TSWHB-302	30W	>3600lm	6500k	30,60,90,140	>60/26ft
TSWHB-502	50W	>6000lm	6500k	30,60,90,140	>125/26ft
TSWHB-802	80W	>9600lm	6500k	30,60,90,140	>150/26ft
TSWHB-1002	100W	>12000lm	6500k	30,60,90,140	>150/32ft
TSWHB-1202	120W	>14400lm	6500k	30,60,90,140	>170/32ft
TSWHB-1502	150W	>18000lm	6500k	30,60,90,140	>200/32ft
TSWHB-1802	180W	>21600lm	6500k	30,60,90,140	>225/32ft

## ECO SERIES

Available 30w 50w 80w 120w 150w 180w 250w  
(Without secondary optics)








## Application

- |   |  |  |   |
|---|--|--|---|
| <br>Warehouses | <br>Factories | <br>Manufacturing | <br>Service area |
|---|--|--|---|



# LED FLOOD LIGHT

- ❖ Elegantly designed high grade aluminum pressure die cast adjustable powder coated housing with toughened glass cover.
- ❖ Wide beam angle & uniform light distribution.
- ❖ Excellent thermal management - Ideal heat dissipation with good quality heat sink.
- ❖ LED driver designed with low THD ,high surge protection, short circuit and open circuit protection & operate wide input voltage range for long life and sturdy performance.

 AC 100-270V 50/60Hz	 >50000hr	 Power Factor >0.9	 >130lm/W
 CRI>75	 -20 to 50 Degree	 Save >50% energy	



Part No	Power	Flux	CCT	Beam Angle	LUX/FT
TSWFL-102	10W	>800lm	3500K/6500K	100	>20/16ft
TSWFL-202	20W	>1600lm	3500K/6500K	100	>30/16ft
TSWFL-302	30W	>2400lm	3500K/6500K	100	>45/16ft
TSWFL-502	50W	>5000lm	3500K/6500K	100	>75/18ft
TSWFL-802	80W	>800lm	3500K/6500K	100	>130/18ft
TSWFL-1002	100W	>10000lm	3500K/6500K	100	>260/18ft
TSWFL-1502	150W	>15000lm	3500K/6500K	100	>330/18ft
TSWFL-2002	200W	>20000lm	3500K/6500K	100	>450/18ft
TSWFL-2502	250W	>25000lm	3500K/6500K	100	>520/18ft

## Application



Outdoor Spaces



Stadium



Building Exterior



Parks /  
Gardens





- ❖ Elegant epoxy coated CRCA MS with aluminum heat sink housing suitable for recess and surface and milky diffuser for glare free with uniform light distribution.
- ❖ Robust and stylish design and excellent color rendering index for perceiving great visual experience.
- ❖ LED driver designed with low THD ,high surge protection, short circuit and open circuit protection & operate wide input voltage range for long life and sturdy performance.



 AC 100-270V 50/60Hz	 >50000hr	 Power Factor >0.9	 >130lm/W
 CRI>75	 -20 to 50 Degree	 Save >50% energy	

Part No	Power	Flux	CCT	Beam Angle	LUX/FT
TSWPL-062	6W	>300lm	4000k/6000k	120	>50/10ft
TSWPL-092	9W	>520lm	4000k/6000k	120	>80/10ft
TSWPL-122	12W	>840lm	4000k/6000k	120	>120/10ft
TSWPL-152	15W	>1050lm	4000k/6000k	120	>150/10ft
TSWPL-182	18W	>1315lm	4000k/6000k	120	>180/10ft
TSWPL-362	36W	>3060lm	4000k/6000k	120	>300/10ft

## ECO SERIES

Available 3w 6w 9w 12w 15w 18w 22w

## Application



Office



Conference Room



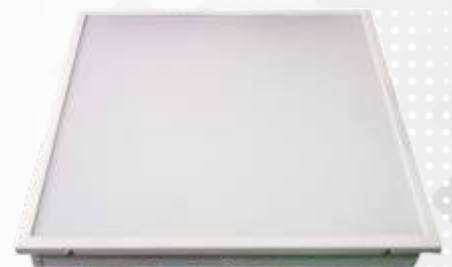
Hotels



Home & Apartments



Retail lighting



# LED FLAME PROOF LIGHTS

- ❖ Specially designed high grade LM6 aluminum pressure die cast powder coated housing with toughened clear heat resistance glass suitable for hazardous area as Zone 1, Zone 2 and Gas Group I , II A , II B , II C application
- ❖ Excellent thermal management - Ideal heat dissipation with good quality heat sink
- ❖ LED driver designed with low THD ,high surge protection, short circuit and open circuit protection & operate wide input voltage range for long life and sturdy performance.
- ❖ Premium quality to operate hazardous environment and low maintenance due to long service life of more than 50,000 operating hours.



<p>AC 100-270V 50/60Hz</p>	<p>&gt;50000hr</p>	<p>Power Factor &gt;0.9</p>	<p>&gt;130lm/W</p>
<p>CRI&gt;75</p>	<p>-20 to 50 Degree</p>	<p>Save &gt;50% energy</p>	

## LED FLAME PROOF WELL GLASS LIGHT

Part No	Power	Flux	CCT	LUX/FT
TSEFWG-202	20W	>2160lm	6500k	>25/16ft
TSEFWG-402	40W	>4800lm	6500k	>50/16ft
TSEFWG-502	50W	>6000lm	6500k	>80/16ft
TSEFWG-602	60W	>7200lm	6500k	>100/16ft
TSEFWG-752	75W	>9000lm	6500k	>130/16ft

Flame proof Flat glass available

- 18w  
  40w  
  50w  
  60w  
  100w  
  120w



## LED FLAME PROOF FLOOD LIGHT

Part No	Power	Flux	CCT	LUX/FT
TSFFL-502	50W	>6000lm	6500k	>100/16ft
TSFFL-802	80W	>9600lm	6500k	>160/16ft
TSFFL-1002	100W	>12000lm	6500k	>200/16ft
TSFFL-1202	120W	>14400lm	6500k	>260/16ft
TSFFL-1502	150W	>18000lm	6500k	>340/16ft



## LED FLAME PROOF CLEAN ROOM LIGHT

Part No	Power	Flux	CCT	LUX/FT
TSFCR-202	20W	>2160lm	6500k	>25/16ft
TSFCR-402	40W	>4800lm	6500k	>50/16ft
TSFCR-602	60W	>7200lm	6500k	>100/16ft
TSFCR-802	80W	>9600lm	6500k	>160/16ft

## LED FLAME PROOF VESSEL LAMP

Part No	Power	Flux	CCT	LUX/FT
TSFVL-42	4W	>330lm	6500k	>90/3ft
TSFVL-72	7W	>770lm	6500k	>130/3ft
TSFVL-142	14W	>1440lm	6500k	>200/3ft
TSFVL-202	20W	>2160lm	6500k	>260/3ft



## LED FLAME PROOF BULKHEAD LIGHT

Part No	Power	Flux	CCT	LUX/FT
TSFBH-122	12W	>1440lm	6500k	>18/16ft
TSFBH-222	22W	>2640lm	6500k	>35/16ft
TSFBH-302	30W	>3600lm	6500k	>42/16ft
TSFBH-422	42W	>5040lm	6500k	>50/16ft



## LED FLAME PROOF HAND LAMP

Part No	Power	Flux	CCT	LUX/FT
TSFHL-42	3W	>330lm	6500k	>90/3ft
TSFHL-72	7W	>840lm	6500k	>130/3ft
TSFHL-142	14W	>1680lm	6500k	>200/3ft
TSFHL-182	20W	>2400lm	6500k	>260/3ft



## LED FLAME PROOF TUBE LIGHT

Part No	Power	Flux	CCT	LUX/FT
TSFHL-81	8W	>840lm	6500k	>60/12ft
TSFTL-182	18W	>1800lm	6500k	>110/12ft
TSFTL-362	36W	>3600lm	6500k	>220/12ft

## OTHER FLAME PROOF PRODUCTS

Flame proof switches and junction box, Flame proof fan, Flame proof control gears and switch gears, Flame proof motor, Flame proof Cable Glands and Accessories, Retrofit light parts for Flame proof well glass and flat glass.



## Application



Oil & Gas



Petrochemical



Power Generation



Pharmaceutical



Cold storage



Manufacturing



Food & Beverage



Water & Sewage



**LED BULB**

5w 7w 9w 12w



**HIGH POWER LED BULB**

27w 36w 48w



**LED BACKLIT DOWN LIGHT**

6w 9w 12w 15w



**LED TUBE LIGHT - RETROFIT T5 & T8**

8w 15w 18w 22w



**LED BATTEN TUBE LIGHT**

8w 15w 18w 22w



**LED PLL & PLC LAMPS**

7w 9w 11w 18w 21w



**LED SURFACE MOUNT LIGHT**

6w 12w 18w



**LED BURIAL LIGHTS**

3w 6w 9w 12w 15w



**LED SPOT LIGHT**

1w to 30w



**INDOOR DECORATIVE LED LIGHTS**

3w to 30w



**LED WELL GLASS WEATHER-PROOF**

15w 24w 40w



**LED STRIP LIGHT - INDOOR & OUTDOOR**

5w/m 7.5w/m 15w/m



**WEATHER PROOF LED TUBE LIGHT**

8w 18w 36w



**LED BOLLARD LIGHT**

6w 9w 12w



**LED CLEAN ROOM FITTING**

40w 60w



**SOLAR LED STREET LIGHT**

6w 12w 18w 24w 36w



**LED INDUSTRIAL EMERGENCY LIGHT**

20w



**HIGHMAST LIGHT**

12 to 30 meter



**LINEAR HIGHBAY**

80w to 160w



**HAND LAMP - 24V AC**

6w 12w

## 1. ILUMINANCE (E) (Unit –Lux or lm/m<sup>2</sup>):

Illuminance is the total luminous flux incident on a surface, per unit area. It is a measure of the intensity of the incident light.

## 2. LUMINANCE (L) (Unit–cd/m<sup>2</sup>):

Luminance is photometric measure of the luminous per unit area of light travelling in a given direction. It describes the amount of light that passes through or is emitted from a particular area, and falls within a given solid angle.

## 3. LUMINOUS FLUX (F) (Unit –Lumen or cd.sr):

Amount of light emitted in all direction by a light source.

## 4. LUMINOUS INTENSITY (I) (Unit–Candela(cd) :

Luminous intensity is measure of the wave length weighted power emitted by a light source in a particular direction per unit solid angle.

## 5. LUMINOUS EFFICIENCY (Unit-Lumen/Watt):

Lumen out divided by electrical input power.

## 6. LUMEN DEPRECIATION :

Light output depreciation throughout its life.

## 7. CRI (Color Rendering Index) :

An object looks whitish under the fluorescent lamp mean while, the same object looks yellowish under the incandescent lamp. The same object looks different in different light sources. You can see how light source change the color of the objects. CRI is the property of the light source that affects the apparent color of the object. For SSL a better index called color quality Index (CQI) is currently under development.

## 8. CCT (Correlated Colour Temperature) (K) (Unit–Kelvin) :

The color Temperature of a light source is the temperature of an ideal black body radiator that radiates light of comparable hue to that of the light source.

## 9. LED LUMINAIRE :

A complete Light unit consisting of a Lamp. Electronics (or LED Driver) as required together with the parts designed to distribute the light, position and project the lamps and connect them to the power supply. Generally lighting Engineers call this as a “Fixture”.

## 10. LED MODULE:

A component part of an LED light source that includes one or more LED'S connected to the load side of LED Power source or LED driver. Electrical, Electronics, Optical, and Mechanical components may also be a part of an LED Module. The LED Module does not contain a Power source and is not connected directly to the branch circuits.

## 11. SELF BALLASTED LED LAMP OR INTEGRATED LED LAMP :

A lamp with LED'S and integrated LED driver and an ANSI Standardized base that is designed to connect to the branch circuit via ASI standardized lamp holder/Socket.

## 12. LED DRIVER :

Device that is connected in between the voltage supply and one or more LED Load and which serves the purpose of driving appropriate current for the LED chip.

## 13. POWER FACTOR (PF) :

The Power factor for SSL is defined as the ratio of the real power flowing to the load to the apparent power in the circuit .It is also equal to the cosine of the phase angle between voltage and current drawn by the input of the driver from an AC Source (often the wall plug in a house).




The table below is a guide for recommended light level in different workspaces

Activity	Illumination (lux or lumen/m <sup>2</sup> )
Public areas with dark surroundings	20 - 50
Simple orientation for short visits	50 - 100
Working areas where visual tasks are only occasionally performed	100 - 150
Warehouses, Homes, Theaters, Archives	150
Easy Office Work, Classes	250
Supermarkets, Mechanical Workshops, Office Landscapes	750
Normal Drawing Work, Detailed Mechanical Workshops, Operation Theatres	1000
Detailed Drawing Work, Very Detailed Mechanical Works	1500 - 2000
Performance of visual tasks of low contrast and very small size for prolonged periods of time	2000 - 5000
Performance of very prolonged and exacting visual tasks	5000 - 10000
Performance of very special visual tasks of extremely low contrast and small size	10000 - 20000

# OUR PARTIAL CUSTOMERS

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