

The Allegheny Group

ENERGY EFFICIENT LED LIGHTING

The Allegheny Group

The Allegheny Group was founded by Faye O. Ritter in 1983. For over 15 years we have been the supplier and installer of choice providing energy efficient lighting products, industrial, commercial and residential LED lighting, electrical supply and installation.

The Allegheny Group is a Certified Women and Minority Owned and Operated Business.

We offer a superior level of customer service and support. Our company's quality service has enabled us to establish and maintain relationships with major companies and institutions such as the Pittsburgh Board of Education, Allegheny County, PNC Bank, Westinghouse, WABCO, Allegheny General Hospital, AEG Transportation Systems, New Jersey Transit and V.A. Hospitals. We have assembled components for projects for Bay Area Rapid Transit, Washington Mass Transit, Amtrak, New Haven and NYCTA.

Go Green

- ◆ The Green Movement has taken the country by storm and has a direct impact on our planet's future. We all have a responsibility to care about energy conservation. By helping to preserve our environment and reducing your companies carbon footprint, we will be contributing in a positive way to the world we all live in.
- ◆ The newest standards in commercial lighting can cut your electricity usage by one half. LED (Light Emitting Diode) lighting has the ability to save energy, reduce maintenance, eliminate the need to dispose of harmful chemicals and essentially change our entire lighting infrastructure.

THE PROCESS

- ◆ The Allegheny Group will schedule a free on site energy usage evaluation at any prospective clients facility.
- ◆ Our LED Lighting Engineering Staff will walk you through a complete analysis of your lighting and solar needs. We examine your current lighting as well as the rates you are paying to run the existing lights.
- ◆ We then create a very detailed proposal with all the information you will need to make an informed decision about your energy consumption including a detailed outline of your current electrical usage for lighting and compare side by side to what your new electrical usage will be.
- ◆ The return on investment is clearly detailed. It is a guaranteed savings every month and every year. We provide you with all the information you will need to make an informed decision about your energy usage.



The Allegheny Group

T-X LEDs See The Difference.

Corporate Offices

208 Woodland Road Pittsburgh, Pennsylvania 15238

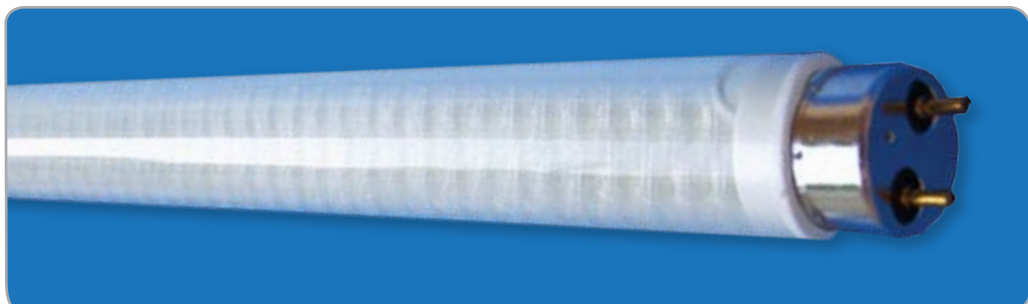
Telephone: (412) 828-3320

Fax: (412) 828-3325

TollFree: (800) 851-3778



LED Driver fits in ballast area



20watt 4' LED Bi-Pin Lamp FEATURES

ITEM		PARAMETER RANGE
LED diodes per lamp		312
Prismatic Casement		Acrylic
Lumen Equivalent		2,900 lumens +/- 5%
LED Color-Kelvin/model number		Cool White = 5500K - T-X BI-4CWEXS-20W Warm White = 4100K - T-X BI-4WWEXS-20W
ITEM	UNIT	PARAMETER RANGE
Working temperature	°F	-31 °F to +145 °F
Working Frequency	Hz	50hz to 60hz
LED Driver voltage:	v	90 to 140v or 200 to 280v Please Specify Voltage Required-
Lamp length	ft/inches	4' (nom) - 47.24 inches (pin to pin)
Lamp diameter	mm	30 mm
Average Rated Life	Hours	50,000 to 80,000
Manufacturer's Warranty		Lighting products are warranted for three year against defects. In case of multiple individual LED lighting greater than 20% of the LED's must be affected. LED will continue to operate with individual LED's being non-operational. Warranty will be voided if it is determined the lamps have been incorrectly installed. Lights must be returned for replacement to be awarded.

LED LAMPS –FEATURES AND BENEFITS

Replaces existing T12 and T8 fluorescent lamps

- Reuses existing fixtures
- Uses no ballast
- Available in 90 to 140v or 200 to 280v
- Reduces impact of carbon footprint

Operates in cold environments

- Instant Strike
- Operates in -31 °F to +145 °F
- Reduces heat transfer by 80%
- Reduces refrigeration duty cycle by 3 times

Contains no liquid mercury

- No hazardous material handling
- Recyclable

50,000 to 80,000 hour lamp life

- Reduces Maintenance Costs for Lamps
- Eliminates Maintenance Costs for Ballasts
- Less storage needed for replacement lamps
- Less storage needed for replaced lamps

Acrylic casing

- Reduces breakage
- Eliminates hazardous material

Sales Floor - Vertical Mullion Lamps



Before

- 4 – 4' T8 Lamps in an 8' Strip Fixture
- Electronic Ballast
- 50.6 Foot Candles
- 128 Watts (32 Watts/Lamp)

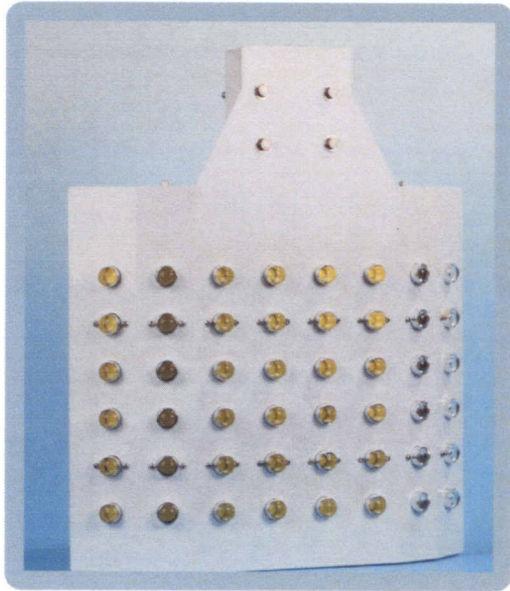
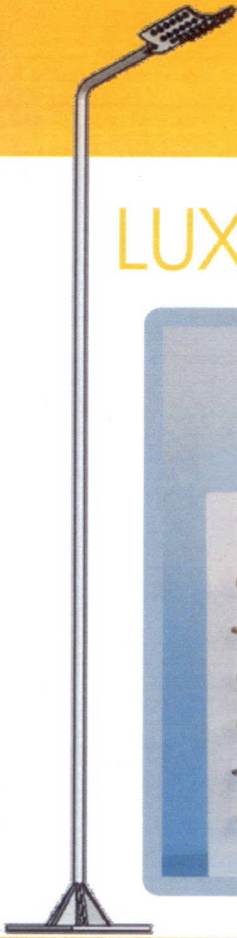


After

- 4 T-X LED Lamps
- No Ballast
- 50.4 Foot Candles
- 80 Watts (20 Watts/Lamp)
- 38% Savings**



LUXMAN™ - SL Series Streetlights



LUXMAN™ -SL-6x8, LUXMAN™ -SL-6x10 and LUXMAN™ -SL-6x12

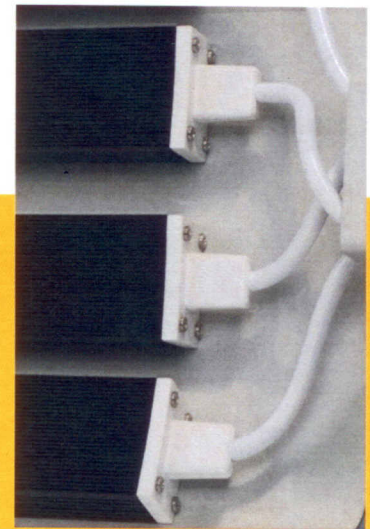
Features

- High power LED streetlights
- High luminous intensity output: 6,720 ~ 10,080 lumens
- Min. 70% lumen maintenance after 35,000 hours
- Modular design, lightweight, easy assembly
- Higher energy efficiency, longer operating life and lower operating cost than traditional mercury lamps
- Easy maintenance by general electricians
- Light bars or LED modules are individually replaceable
- Insects cannot build nests and shade the LED modules
- Rating: IP66

Light up streets, alleys, courtyards, parks and walkways with the LuxMan™ -SL streetlights.

ELECTRONIC SPECIFICATIONS

MODEL NAME	LUXMAN-SL-6x8	LUXMAN-SL-6x10	LUXMAN-SL-6x12
Power Specifications			
Input Voltage	100~240VAC (50 ~ 60Hz)		
Input Current	1.2 / 0.6 A	1.4 / 0.7 A	1.8 / 0.9 A
Power Consumption	120W	150W	180W
Optical Specifications			
Output	6,720 lumens	8,400 lumens	10,080 lumens
Operating Life	Min. 70% lumen maintenance after 35,000 hrs.		
Environment Specifications			
Temperature	60° C		
Operating Temp.	-20 ~ 50° C		
Storage Temp.	-40 ~ 60° C		
Operating Humidity	10 ~ 90%		
Dimensions	56cm x 47.3cm x 7.3cm	56cm x 53.5cm x 11.7cm	56cm x 60.5cm x 15.9cm
Installation Height	7 ~ 8 meters	9 ~ 10 meters	11 ~ 12 meters



LED Lights, Inc.
Tom Beimel
(856) 430-9221

LUXMAN™ - SL Series Streetlights

DIMENSIONS

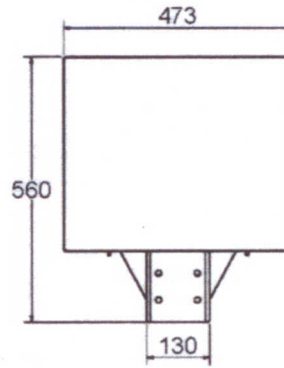
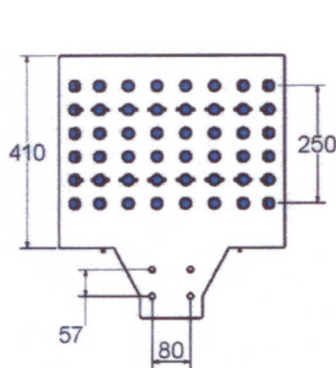
Unit: mm

Front View

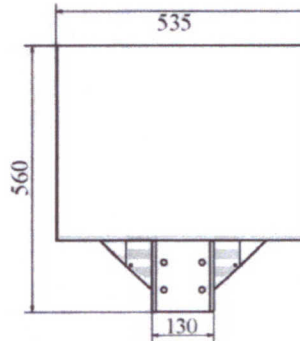
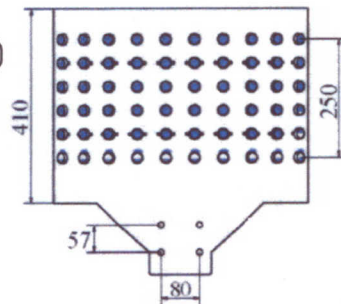
Back View

Side View

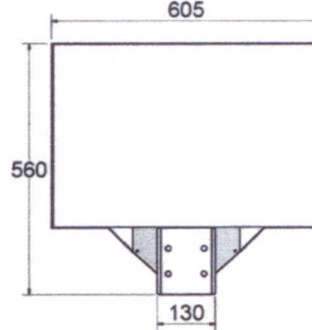
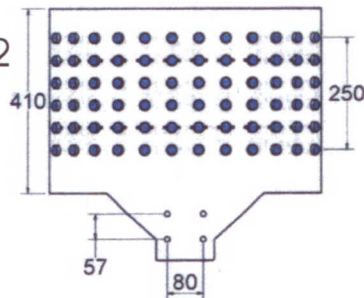
LUXMAN™ -SL-6x8



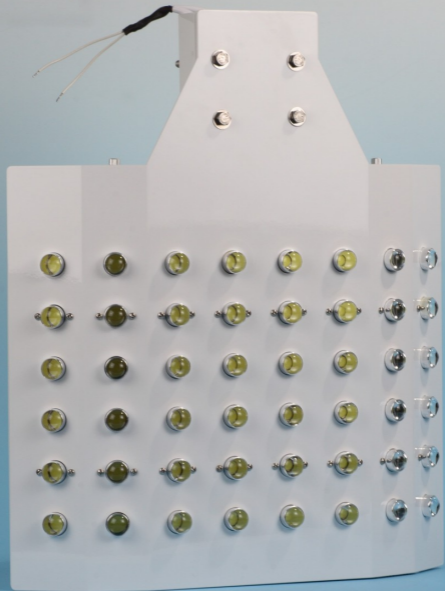
LUXMAN™ -SL-6x10



LUXMAN™ -SL-6x12



LED Lights, Inc.
Tom Beimel
(856) 430-9221









STREET LAMP PRODUCT SHEETS

LLI MR16 High Power LED Lamp Cup

LLI SP50 - High Power LED Lamp Head

LLI SP80B - High Power LED Bulb



LLI MR16 HIGH POWER LED LAMP CUP



Features & Benefits

Low Power Consumption : 3W

High Brightness : Up to **170 Lumens, 8 TIMES** than the traditional lamps
Long Life : Up to 50,000 Hours, adopted the PWM constant current power, protect the LEDs efficiently

Robust Design : Shock and vibration resistant

Light Beam : Low heat generated/No UV, adopted the integrative lamp cup & radiator, scatter heat quickly

Easy Installation : Fits standard GU5.3 base socket and replaces the traditional MR16 light source directly

Save Money : Reduces labor and maintenance costs

High Efficiency : CE, RoHS, UL

Design For

Apply to homes, shopping centers, conference rooms, display counters lighting and decoration, usually installed in the MR16 spotlight case.

Special Features

Proprietary optical technology, high beam pattern definition and brightness uniformity;

Unique Integrated Lens and Lampshade Design. Clean, simple design for light focus and LED protection, helps avoid brightness waste.

Combined Radiator and Lamp Holder Integration: Increased LED life and heat dissipation;

Tremendous Energy Savings: Up to 80% savings over incandescent lamps when the ultra high power, high brightness LED light used in conjunction with high-powered, efficient power supply. Under the



LLI MR16 HIGH POWER LED LAMP CUP

Special Features

same power consumption, the brightness is 8 times than the traditional incandescent lamps;

Long Life, Up to 50,000 Hours, 50 times than the conventional tungsten wire lamp: Highly reliable, advanced LED packaging technology - Eutectic Welding, Long life fully guaranteed;

No Strobe Flashing : Working under DC, eliminates health issues, including tiredness, fatigue and more, that can occur with traditional strobe flashing;

Green and Environmental Protection: no lead, no mercury, no environmental pollution;
Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation: No filament and glass frames, avoid break of the traditional lamp, without harm to the human body;

Low-voltage and Low-Heat, Safe and Reliable: A surface temperature of less than $T_a=25^{\circ}\text{C}$ ambient temperature;

PWM constant-current technology : High efficiency, low heat and high precision constant current;

External adapter : Works with optional AC adaptor;

Global Wide Working Voltage: Constant-current under 85-264VAC entire voltage range, brightness and lifetime not influenced by voltage fluctuations;

Universal standard GU5.3 base : Easy replacement;

High brightness efficiency: Up to 80lm/w, various color temperature optional, High Color Index, good-coloration;

A number of patents for inventions and utility model patents.



LLI MR16 HIGH POWER LED LAMP CUP

Main Specifications

Model Number	MR16
Model Name	High Power LED Spot Lamp
Dimension	50 x 45mm
Emission Color	Pure White, Warm White (Red, Yellow, Green and Blue optional)
Color Temperature	Pure White: 5,000 – 7,000K, Warm White: 3,000 – 4,000K
CRI	Ra > 70
Luminescence Angle	30 °
Lumens	170 lm
Working Voltage	12VAC/DC (85-264VAC, working with external adapter)
Power Consumption	3W
Lamp Lens	Acryl
Lamp Cup Radiator	Alloy Aluminum Plating
Lamp Base	GU5.3
Certification	CE, RoHS
Packing	1 pc/White Box, 10 pcs/Middle Box, 100 pcs/Carton
Carton Size	600 x 308 x 146 mm
Container Qty (pcs)	20'Q: 99,000 pcs 40'Q: 204,000 pcs, 40'HQ: 244,800 pcs
Warranty	12 Months



LLI SP50 HIGH POWER LED LAMP HEAD



Features & Benefits

Low Power Consumption : 3 W

High Brightness : Up to **170 Lumens**, **8 TIMES** than the traditional lamps
Long Life : Up to 50,000 Hours, adopted the PWM constant current power, protect the LEDs efficiently

Robust Design : Shock and vibration resistant

Light Beam : Low heat generated/No UV, adopted the integrative lamp cup & radiator, scatter heat quickly

Easy Installation : Fits standard GU5.3 base socket and replaces the traditional MR16 light source directly

Save Money : Reduces labor and maintenance costs

High Efficiency : CE, RoHS, UL

Design For

Apply to homes, shopping centers, conference rooms, display counters lighting and decoration, usually installed in the MR16 spotlight case.

Special Features

Proprietary optical technology, high beam pattern definition and brightness uniformity;

Unique Integrated Lens and Lampshade Design. Clean, simple design for light focus and LED protection, helps avoid brightness waste.

Combined Radiator and Lamp Holder Integration: Increased LED life and heat dissipation;

Tremendous Energy Savings: Up to 80% savings over incandescent lamps when the ultra high power, high brightness LED light used in conjunction with high-powered, efficient power supply. Under the



LLI SP50 HIGH POWER LED LAMP HEAD

Special Features

same power consumption, the brightness is 8 times than the traditional incandescent lamps;

Long Life, Up to 50,000 Hours, 50 times than the conventional tungsten wire lamp: Highly reliable, advanced LED packaging technology - Eutectic Welding, Long life fully guaranteed;

No Strobe Flashing : Working under DC, eliminates health issues, including tiredness, fatigue and more, that can occur with traditional strobe flashing;

Green and Environmental Protection: no lead, no mercury, no environmental pollution;

Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation: No filament and glass frames, avoid breaks without harm;

Low-voltage and Low-Heat, Safe and Reliable: A surface temperature of less than $T_a=25^{\circ}\text{C}$ ambient temperature;

PWM constant-current technology : High efficiency, low heat and high precision constant current;

External adapter : Works with optional AC adaptor;

Global Wide Working Voltage: Constant-current under 85-264VAC entire voltage range, brightness and lifetime not influenced by voltage fluctuations;

Universal standard GU5.3 base : Easy replacement;

High brightness efficiency: Up to 80lm/w, various color temperature optional, High Color Index, good-coloration;

A number of patents for inventions and utility model patents.



LLI SP50 HIGH POWER LED LAMP HEAD

Main Specifications

Model Number	SO50
Model Name	High Power LED Lamp Cup
Dimension	50 x 71mm
Emission Color	Pure White, Warm White (Red, Yellow, Green and Blue optional)
Color Temperature	Pure White: 5,000 – 7,000K, Warm White: 3,000 – 4,000K
CRI	Ra > 70
Luminescence Angle	30 °
Lumens	190 lm
Working Voltage	85-264VAC or 12VAC/DC
Power Consumption	3W
Lamp Lens	Acryl
Lamp Cup Radiator	Alloy Aluminum Plating
Lamp Base	E27, E26, E17, E14, E12, GU10
Certification	CE, RoHS, UL
Packing	1 pc/White Box, 10 pcs/Middle Box, 100 pcs/Carton
Carton Size	584 x 458 x 372 mm
Container Qty (pcs)	20'Q: 28,800 pcs 40'Q: 60,000 pcs, 40'HQ: 70,000 pcs
Warranty	12 Months



LLI SP80B HIGH POWER LED Bulb



Features & Benefits

Low Power Consumption : 10 W

High Brightness : Up to **500 Lumens, 8 TIMES** than the traditional lamps
Long Life : Up to 50,000 Hours, adopted the PWM constant current power, protect the LEDs efficiently

Robust Design : Shock and vibration resistant

Light Beam : Low heat generated/No UV, adopted the integrative lamp cup & radiator, scatter heat quickly

Easy Installation : Fits standard Edison base socket and replaces the traditional Edison light source directly

Save Money : Reduces labor and maintenance costs

Design For

Apply to homes, shopping malls, office lighting, as well as festive lighting, parks, the arena and so on. Can be universally used for various pendant lights and canister lamp case (minimum 3.5 inch).

Special Features

Proprietary optical technology, high beam pattern definition and brightness uniformity;

Unique Integrated Lens and Lampshade Design. Clean, simple design for light focus and LED protection, helps avoid brightness waste.

Combined Radiator and Lamp Holder Integration: Increased LED life and heat dissipation;

Tremendous Energy Savings: Up to 80% savings over incandescent lamps when the ultra high power, high brightness LED light used in conjunction with high-powered, efficient power supply. Under the



LLI SP80B HIGH POWER LED BULB

Special Features

same power consumption, the brightness is 8 times than the traditional incandescent lamps;

Long Life, Up to 50,000 Hours, 50 times than the conventional tungsten wire lamp: Highly reliable, advanced LED packaging technology - Eutectic Welding, Long life fully guaranteed;

No Strobe Flashing : Working under DC, eliminates health issues, including tiredness, fatigue and more, that can occur with traditional strobe flashing;

Green and Environmental Protection: no lead, no mercury, no environmental pollution;

Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation: No filament and glass frames, avoid breaks without harm;

Low-voltage and Low-Heat, Safe and Reliable: A surface temperature of less than $T_a=25^{\circ}\text{C}$ ambient temperature;

PWM constant-current technology : High efficiency, low heat and high precision constant current;

Universal Standard Base: Can replace halogen, incandescent and fluorescent lamps

Global Wide Working Voltage: Constant-current under 85-264VAC entire voltage range, brightness and lifetime not influenced by voltage fluctuations;

No Pollution to Power Network: Power factor >0.9 , THD $< 20\%$, No contamination or interference with high frequency power networks or lines;

High brightness efficiency: Up to 80lm/w, various color temperature optional, High Color Index, good coloration;

A number of patents for inventions and utility model patents.



LLI SP80B HIGH POWER LED BULB

Main Specifications

Model Number	SP80B
Model Name	High Power LED Bulb
Dimension	80 x 159mm
Emission Color	Pure White, Warm White
Color Temperature	Pure White: 5,000 – 7,000K, Warm White: 3,000 – 4,000K
CRI	Ra > 70
Luminescence Angle	120 °
Lumens	500 lm
Working Voltage	85-264VAC, 12V or 24VAC/DC
Power Consumption	10W
Lamp Lens	Acryl
Lamp Cup Radiator	Alloy Aluminum Plating
Lamp Base	E27, E26
Certification	CE, RoHS
Packing	1 pc/White Box, 20 pcs/Middle Box
Carton Size	595 x 496 x 250 mm
Container Qty (pcs)	20'Q: 7560 pcs 40'Q: 15,840 pcs, 40'HQ: 19,360 pcs
Warranty	12 Months

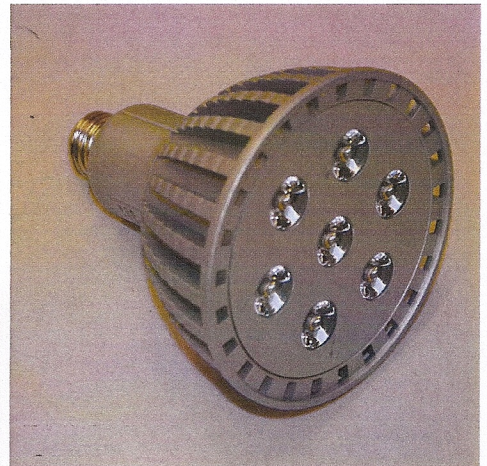
PAR 38 14 Watt

New!!! PAR38-WHT LED Lamps with the patented Fin-Core™ aluminum housing

- LEDs: Multiple High Brightness LEDs
- CCT: Warm White (3000-3300k);
Daylight White (5500-6000k)
- Beam Angle: 130°

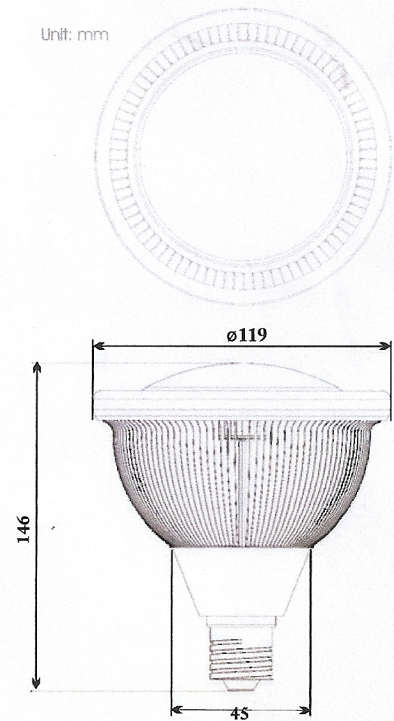
Features

- High power LED retrofit lamps
- High luminous intensity output
- Min. 70% lumen maintenance after 35,000 hrs
- Higher energy efficiency than
incandescent and halogen lamps
- Cool beam (no UV or thermal radiation)



Dimensions

Unit: mm



ELECTRONIC SPECIFICATIONS

PARAMETERS	LLI PAR38-WHT
ELECTRICAL:	
Input Voltage	90 ~ 264Vac
LEDs	12W (84 LEDs)
Power Consumption	14W
Housing	aluminum Fin-Core™
Base	E27
OPTICAL:	
Lumen Output	WW: 450 / WD: 540
Operating Life	> 35,000 hrs.
Beam Angle (with lens)	130°
ENVIRONMENT:	
Operation Temperature	-20 ~ 50°C
Storage Temperature	-40 ~ 60°C
Operation Humidity	10 ~ 90%



NOTE: Do not use in outdoor or wet/humid areas
or in totally enclosed fixtures.



THE ALLEGHENY GROUP

INDUSTRIAL/CONSTRUCTION MANUFACTURERS & SUPPLIERS

TCP – Industrial, commercial and residential lighting
Royal Aluminum Co., Inc. – Vinyl (Energy Star) and Aluminum Windows
Preformed Metal Products – manufacturers of metal roofing
Cassady Pierce Company – sealants, adhesives, roofing materials
Service Electric Supply – full service electrical supply
Wholesale Builders Supply – full service drywall, lumber supply
American Hardware Service – full service construction supply
TNT Lighting and Solar – LED commercial lighting

Construction Materials:

LIGHTING -Industrial, commercial and residential ; **WINDOWS** -Vinyl, aluminum and wood; **ROOFING**-Specialized metal roofing; **DIMENSION LUMBER** – hem, fir, spruce, wolmanized, cedar, ODW, redwood, CLASS “A” LUMBER –Pyro Guard non-combustible SYP Fire Retardant Lumber; **ENGINEERED LUMBER** – MICRO-LAM LVL, PARALLAM PSL and TJI; **BOARDS** – white pine, poplar, redwood, cedar, pattern stocks and hardwoods; **HARDWOODS**- red oak, white oak, cherry, ash and walnut boards; **SIDING** – cedar, redwood, pine, hardboard, vinyl and aluminum; **MOULDINGS** – white pine, pine plus oak, poplar, and PVC prefinished; **DOORS**- commercial and residential, hollow metal doors and frames, oak and lauan; **PLYWOOD/PANELS**- Plyscore, exterior plywood, plyform, HD particle, underlayment, hardboard, OSB, hardwood veneer overlay, marine, wolmanized and Pyro-Guard non-combustible; **INSULATION** – Fiberglass, mineral wool, perlite block fill, asphalt sheathing, foam board, foil faced Polyiso sheathing and homasote; **GYPSUM**- drywall, hardkote, exterior gypsum sheathing, tape, compounds, wonderboard, etc. **PLASTER**- base coat plaster, moulding, gauging diamond base, diamond finish, lime, rock lathe, metal and wood lathe, metal and PVC beads; **METAL STUDS** – studs and track, light and heavy guage metal framing, beads, etc.; **CEILINGS** – commercial and residential ceiling tile. Chicago metallic grid systems; **FLOORING**- carpet tiles, fir, hardwood strips and parquets, vinyl; **POLYFILM** – Polyethylene sheeting, 4.0 & 6.0 mil clear/black; **NAILS & SCREWS**-deck nails and screws, all drywall screws; **ADHESIVES** – Construction adhesives, sealants and caulks; **TOOLS** – trowel, caulking guns, knives, sawblades, etc.

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“furnished with pride”