

# CSS-LED, Inc.



LED comes in a WHITER SHADE of PALE ©

CSS-LED SPL60 STREET LIGHT 60w ~ REPLACES 275w METAL HALIDES..!

## PRODUCT SPECIFICATIONS



### Color Temperature (CCT)

Color	Kelvin
◆ Warm White	2700 ~ 3500 ~ WW
◆ Pure White	3500 ~ 4500 ~ PW
◆ Cool white	4500 ~ 7000 ~ CW

**REPLACES 275w METAL HALIDE**

**NO MAINTENANCE ~ NO HASSLES**

◆ Now available ~ in stock

Product CSS-SPL60 ~ Also available to REPLACE 400w MH/HPS:



LED SOLAR STREET LIGHT



215 GENESEE ST. BUFFALO, NY



◆ FANTASTIC ENERGY AUDIT & ROI PAYBACK ◆

### Product Features:

1. Bulb Type: High Power SPL30 x 2 EMBEDDED CREE LED LAMPS ~ LIGHT SOURCE: 60 watts
2. FACE Type: SHOEBOX ~ RIBBED ALUMINUM HOUSE ~ **INSTANT START, SHOCK/VIBRATION RESISTANT**
3. **Input voltage: 85v ~ 300v AC also available in 12v DC & 24v DC (works WORLDWIDE)**
4. Light Output (LUMENS: 120LM ~ High Power 60w **(SOLAR POWERED MODELS also available)**
5. Overall Dimensions: Length approx 24" in x 18" in including base ~ NET WEIGHT: 6.85kg (approx 15 lbs)
6. Beam Angle: 140° Degrees ~ CRI: 80 ~ SAFETY GRADE: IP54 ~ AMBIENT TEMP.: 20 ~ 45° C
7. Replaces 275w METAL HALIDE or 320w PULSE START SHOEBOX ~ **LED Life: 70,000 hrs ~ min 5 YRS**
8. **Suitable for use: Indoor/Outdoor, PARKING LOTS, STREETS, MALLS, OFFICE/Hotels, SHOWROOMS. Will replace HALOGEN Light Bulb specifications: 275W or 320W PULSE START SHOEBOX**
9. COLORS: PW, CW & W White (2700~7000k), AUTO TIME/TEMP CONTROL ~ UNIQUE HEAT SINK DESIGN
10. **NO Ultra-violet or IR RADIATION ~ NO MERCURY~ NO NOISE ~ ENVIROMENTALLY SAFE**
11. SAFETY ASSURANCE: WORLDWIDE FCC, CE & ROHS ~ UL listing pending

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## CSS-LED SPL60 STREET LIGHT 60w ~ REPLACES 275w METAL HALIDES..! COST ANALYSIS OF OUR UNIQUE LED STREET LIGHT 60w

### ◆ EXISTING METAL HALIDE & HIGH PRESSURE SODIUM LAMPS ◆

BULB TYPE	WATTAGE	QUANTITY	HOURS ON	DAYS OPEN	KWH COST
METALHALIDE/HP SODIUM	275w/320w	1000 SHOEBOXES	Min 16 hrs	min 365 days	0.13c
<b>Annual ENERGY COST</b>		for 275w =	<b>\$ 208,780.00</b>	for 320w =	<b>\$ 242,944.00</b>
STANDARD LAMP TEMP	4100k	LAMP LIFE	KWH	5000 hrs	
Maintenance Fixture per year		<b>\$503.78</b>		Annual Op COSTS	<b>\$ 208,210.00</b>
Total Operating COSTS 5yrs		<b>\$ 2,518,900.00</b>		LAMPS REPLACE	<b>4.7 TIMES</b>
Estimated actual cost for replacement for a SHOEBOX fixture @ \$299.75 and \$1.50 hrs labor @ 42.00/hr including benefits					

### ◆ PROPOSED CSS-LED STREET LIGHT ( to TRADITIONAL SHOEBOXES) ◆

BULB TYPE	WATTAGE	QUANTITY	HOURS ON	DAYS OPEN	KWH COST
CSS-LED STREET LIGHT	60w	1000 FIXTURES	Min 16 hrs	min 365 days	0.13c
CSS-LED LAMP COST	app. \$750.00		For 120w	Approx. \$1440.00	
<b>Annual ENERGY COST</b>		for 60w =	<b>\$ 45,552.00 ☺</b>	for 120w =	<b>\$ 91104.00 ☺</b>
LED LAMP TEMP	7000k	LAMP LIFE	KWH	70,000 hrs	
Maintenance Lamp per year		<b>\$ 0.00 ☺</b>		Not Required	<b>5 year Warranty</b>
		AND		<b>± 10 years</b>	<b>Life expectancy</b>
<b>Total Operating COST 5yr</b>		<b>\$ 122,952.50 ☺</b>	@ 50%	<b>LAMP LIFE</b>	
<b>Initial PAYBACK PERIOD</b>		<b>15 MONTHS</b>			
5 Yr PROJECTED SAVINGS		<b>\$ 1,958,794.10 ☺</b>			
<b>5 YEAR LABOR SAVINGS</b>		<b>\$ 391,950.00 ☺</b>	① assuming	No KWH cost	<b>INCREASES</b>
LED PAR38 LAMP is	RATED at	70,000 hours, but	ONLY 50k	Hours were used	to calculate COSTS
TOTAL LIFETIME SAVINGS	1000 LAMP	<b>\$ 3,063,124.10 ☺</b>			
② assuming No KWH cost	<b>INCREASES</b>			All costing/pricing	Is subject to change
The DOE & NYSERTA are being pressured to offer rebates to all individuals/Corporations that migrate to the LED arena in 2009/2010					

◆ SEE ENERGY AUDIT & PAYBACK ABOVE ◆

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## PRODUCT SPECIFICATIONS

NO BALLAST ~ HI-POWER LEDs



[www.CSS-LED.com](http://www.CSS-LED.com)

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LED SOLAR STREET LIGHT



ITEM/DESCRIPTION NO.	CSS-SPL-60
LIGHT SOURCE	1W HIGH POWER CREE LED ~ XPS (REV.5)
LED TOTAL POWER	60 watt
LAMP TOTAL POWER	REPLACES EITHER 275 watt METAL HALIDE OR 320 watt PULSE START SHOEBOX
POWER EFFICIENCY	85%
LED LUMINOUS EFFICIENCY	≥ 93 lm/watt
LED INITIAL FLUX	4800 lm (Tj=25°C)
LAMP'S EFFICIENCY	>90%
AVERAGE ILLUMINATION.....6m HEIGHT	20m x 8m ≥ 26 LUX
AND EFFECTIVE.....8m HEIGHT	26m x 10m ≥ 15 LUX
ILLUMINATED AREA.....10m HEIGHT	33m x 13m ≥ 9 LUX
.....12m HEIGHT	40m x 16m ≥ 6 LUX
COLOR INDEX (CRI)	Ra>75
COLOR TEMPERATURE (CCT)	WARM WHITE 2700 ~ 3500K
COLOR TEMPERATURE (CCT)	PURE WHITE 3500 ~ 4500K
COLOR TEMPERATURE (CCT)	COOL WHITE 4500 ~ 7000K
BEAM ANGLE	THE HORIZONTAL AXIS: 120° & THE VERTICAL AXIS: 60° DEGREES
LIGHT DISTRIBUTION CURVE (BEAM PATTERN)	ASYMETRIC (BAT WING)/RECTANGULAR BEAM
INPUT VOLTAGE	85-300 VAC / 12V DC/ 24V DC (ALL MODELS AVAILABLE AT TIME OF ORDER)
FREQUENCY RANGE	47—63 Hz
POWER FACTOR (PF)	>0.9
TOTAL HARMONIC DISTORTION (THD)	<20%
STORAGE TEMPERATURE	-40°C - 80°C
WORKING ENVIRONMENT	-40°C - 50°C; 10% - 90% RH
JUNCTION TEMPERATURE (Tj)	60°C ± 10% (ta = 25°C)
LIGHT BODY AND LAMPSHADE MATERIAL	ALUMINUM ALLOY & RECYCLED POLYCARB
WORKING LIFETIME	> 70,000 HOURS
IP RATING	IP65 ~ COMPLETE IES SPECIFICATIONS AVAILABLE (on request)
NET WEIGHT	6.9 kg (approx 15 lbs)