

# eLEDing®

Next Generation Solar Powered & Digital Sensing  
**LED** smart illumination



## **SYSTEMS GROUP, INC.**

Office: 12346 Valley Blvd, Suite A, El Monte, CA 91732 USA

Tel: 1-877-579-3889

Email: [info@eesgi.com](mailto:info@eesgi.com)

[www.eleding.com](http://www.eleding.com)



CE FC ROHS **PATENT**

Version 2.5

**Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light *EE840W-SHRC30***

**30W/4800Lm**



Technical Specifications	
CREE LED	(6000-6500K) 30W 160LM/W > 50000H
LED Quantity	24 LEDs
Battery Type	195WH, Li-ion, 5000 hrs. Normal Operating Cycles
Solar Panel	40W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan
Charging Method	Solar Power-18Vmpp   AUX DC Input: 15-18VDC/-5A
Solar Charging Time	6-8 hrs with Direct Sunlight
Lighting Time	3-5 Nights After Full Charge
Sensor	HRF Sensor + Photocell Sensor
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years
Product Size & Weight	35" x 13" x 2"   31 lbs
IP Level	65 (Water Resistant and Dust Tight)
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)
Warranty	2 Years Full Warranty
Patented and Pending	US 8194061B2; & International
Certification	CE, ROHS, FCC, ISO9001:2015
Pole Diameter	2-1/2"
Installation Height	13 - 20 Feet
Suggested Spacing Distance	50 - 65 Feet Apart
Package Size & Weight	39" x 16" x 8"   33 lbs

**Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light *EE850W-SHRC40***

**40W/6400Lm**



Technical Specifications	
CREE LED	(6000-6500K) 40W 160LM/W > 50000H
LED Quantity	36 LEDs
Battery Type	261WH, Li-ion, 5000 hrs. Normal Operating Cycles
Solar Panel	50W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan
Charging Method	Solar Power-18Vmpp   AUX DC Input: 15-18VDC/-5A
Solar Charging Time	6-8 hrs with Direct Sunlight
Lighting Time	3-5 Nights After Full Charge
Sensor	HRF Sensor + Photocell Sensor
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years
Product Size & Weight	42" x 13" x 2"   37 lbs
IP Level	65 (Water Resistant and Dust Tight)
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)
Warranty	2 Years Full Warranty
Patented and Pending	US 8194061B2; & International
Certification	CE, ROHS, FCC, ISO9001:2015
Pole Diameter	3-1/2"
Installation Height	15 - 25 Feet
Suggested Spacing Distance	65 - 72 Feet Apart
Package Size & Weight	44" x 16" x 8"   39 lbs

**Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light *EE860W-SHRC50***

**50W/8000Lm**



Technical Specifications	
CREE LED	(6000-6500K) 50W 160LM/W > 50000H
LED Quantity	48 LEDs
Battery Type	293WH, Li-ion, 5000 hrs. Normal Operating Cycles
Solar Panel	60W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan
Charging Method	Solar Power-18Vmpp   AUX DC Input: 15-18VDC/-5A
Solar Charging Time	6-8 hrs with Direct Sunlight
Lighting Time	3-5 Nights After Full Charge
Sensor	HRF Sensor + Photocell Sensor
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years
Product Size & Weight	50" x 13" x 2"   45 lbs
IP Level	65 (Water Resistant and Dust Tight)
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)
Warranty	2 Years Full Warranty
Patented and Pending	US 8194061B2 & International
Certification	CE, ROHS, FCC, ISO9001:2015
Pole Diameter	3-1/2"
Installation Height	15 - 27 Feet
Suggested Spacing Distance	65 - 72 Feet Apart
Package Size & Weight	54" x 16" x 8"   48 lbs

**Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light *EE870W-SHRC60***

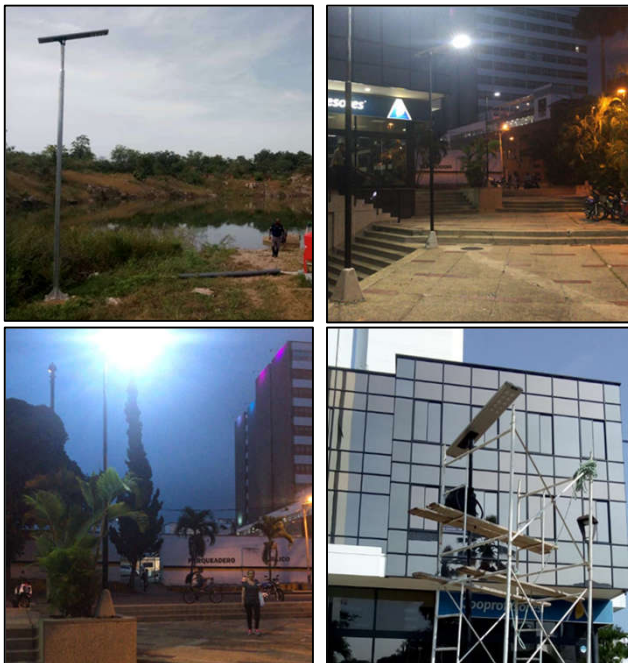
**60W/9600Lm**



Technical Specifications	
CREE LED	(6000-6500K) 60W 160LM/W > 50000H
LED Quantity	6 COB
Battery Type	325WH, Li-ion, 5000 hrs. Normal Operating Cycles
Solar Panel	70W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan
Charging Method	Solar Power-18Vmpp   AUX DC Input: 15-18VDC/-5A
Solar Charging Time	6-8 hrs with Direct Sunlight
Lighting Time	3-5 Nights After Full Charge
Sensor	HRF Sensor + Photocell Sensor
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years
Product Size & Weight	59" x 13" x 2"   53 lbs
IP Level	65 (Water Resistant and Dust Tight)
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)
Warranty	2 Years Full Warranty
Patented and Pending	US 8194061B2; & International
Certification	CE, ROHS, FCC, ISO9001:2015
Pole Diameter	3-½"
Installation Height	20 - 30 Feet
Suggested Spacing Distance	66 - 92 Feet Apart
Package Size & Weight	60" x 18" x 8"   56 lbs

**Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light *EE880W-SHRC80***

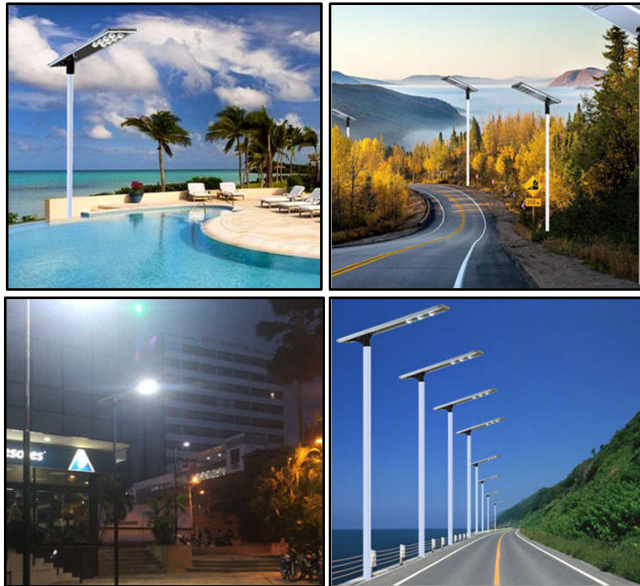
**80W/12800Lm**



<i>Technical Specifications</i>	
CREE LED	(6000-6500K) 80W 160LM/W > 50000H
LED Quantity	8 COB
Battery Type	391WH, Li-ion, 5000 hrs. Normal Operating Cycles
Solar Panel	80W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan
Charging Method	Solar Power-18Vmpp   AUX DC Input: 15-18VDC/-5A
Solar Charging Time	6-8 hrs with Direct Sunlight
Lighting Time	3-5 Nights After Full Charge
Sensor	HRF Sensor + Photocell Sensor
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years
Product Size & Weight	80" x 13" x 2"   53 lbs
IP Level	65 (Water Resistant and Dust Tight)
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)
Warranty	2 Years Full Warranty
Patented and Pending	US 8194061B2; & International
Certification	CE, ROHS, FCC, ISO9001:2015
Pole Diameter	3-1/2"
Installation Height	20 - 33 Feet
Suggested Spacing Distance	79 - 92 Feet Apart
Package Size & Weight	84" x 16" x 8"   56 lbs

**Solar Powered HRF-Sensor, RF-Control Ultra Brightness LED Area Light *EE880W-SHRC100***

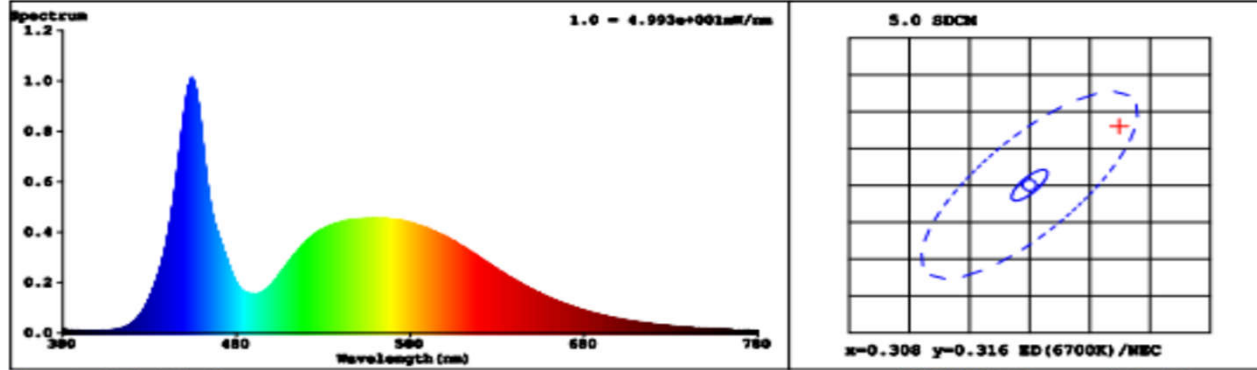
**100W/16000Lm**



Technical Specifications	
CREE LED	(6000-6500K) 100W 160LM/W > 50000H
LED Quantity	10 COB
Battery Type	586WH, Li-ion, 5000 hrs. Normal Operating Cycles
Solar Panel	80W Monocrystalline Silicon Laminated Plate, Built with Tempered Glass 25+ Years Lifespan
Charging Method	Solar Power-18Vmpp   AUX DC Input: 15-18VDC/-5A
Solar Charging Time	6-8 hrs with Direct Sunlight
Lighting Time	3-5 Nights After Full Charge
Sensor	HRF Sensor + Photocell Sensor
Lighting Mode	32 Lighting Mode with Remote Control (MOD1+MOD2)
Housing Material	Aluminum Alloy Housing, Lifespan: 25+ years
Product Size & Weight	80" x 13" x 2"   53 lbs
IP Level	65 (Water Resistant and Dust Tight)
Working Temperature	-13°F ~ 149°F (-25°C ~ 65°C)
Warranty	2 Years Full Warranty
Patented and Pending	US 8194061B2; & International
Certification	CE, ROHS, FCC, ISO9001:2015
Pole Diameter	3-1/2"
Installation Height	20 - 38 Feet
Suggested Spacing Distance	79 - 92 Feet Apart
Package Size & Weight	84" x 16" x 8"   56 lbs

# Distribution Curve & Spectrum

## Spectrum



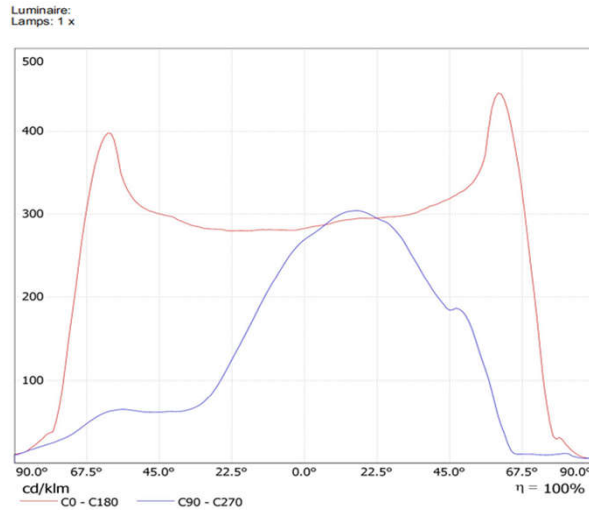
Spectral Distribution

CIE1931 Chromaticity Diagram

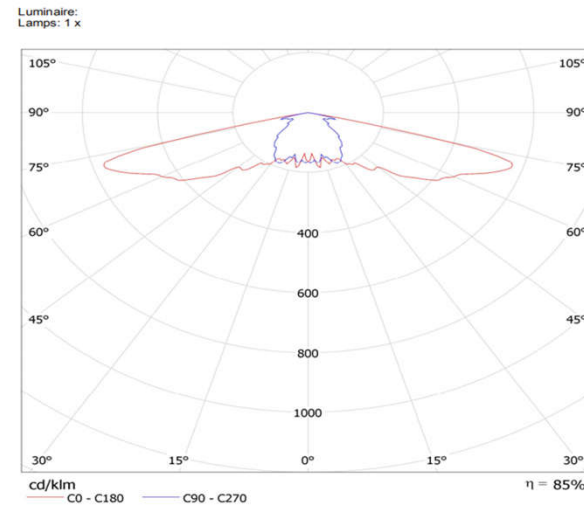
## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3154$   $y = 0.3240$  /  $u' = 0.2016$   $v' = 0.4660$  ( $duv = -7.85e-04$ )  
 CCT= 6390K Prcp WL:  $L_d = 484.7\text{nm}$  Purity=6.8%  
 Peak WL:  $L_p = 454\text{nm}$  FWHM: =21.6nm Ratio:R=13.4% G=81.6% B=5.0%

/ LDC (Linear)



/ LDC (Polar)





# Mounting High vs Lighting Coverage vs Sensing Range

