

**20W Solar LED PIR Flood light
Model SFSOLFLPIR20HPC-LI**



- PIR Motion sensing
- Highpower & Robust
- Lithium Technology
- Alu Zinc / Stainless Steel
- Different Colour Options
- Made in South Africa

The 20w HPC Motion sensing Solar flood light is a compact high power Solar LED flood light design a motion sensor with Lithium battery technology.

This model is supplied with a 20w Philips SMD LED Module with a lumen output of 160lm/w.

Lighting parameters are based on 12.5 hours per night to operate 365 days per year with a 2 day reserve in Smart power L100% power once the sensor is activated for a period of 20 - 30 seconds dimming back to 35%

PIR motion sensor is will detect any movement within an 8 meter Radius with a detection zone of 60 degrees from the sensor which will span over a 35 - 40m² area Light distribution options on the modules are 30, 45, 60, 90 & 110 degrees or with an Asymmetrical lens option.

Battery requires 4 - 5 hours to replenish.

Our standard LED brand options are, Philips or Cree SMD LEDs.

Standard warranties on components

LEDS 5 years

Electronics 3 years

Solar panels 25 years

Poles 10 years workmanship

SPECIFICATIONS

| | | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| LIGHT | POWER | 20W |
| | LED | Philips Lumileds |
| | IP RATING | IP66 |
| | FLUX @ CCT 5000k | 3200 lumen |
| | WARRANTY | 5 years |
| | CRI | 70 / 80 |
| | OPTICAL CONTROL | PMMA Lenses |
| | AVERAGE LIFE SPAN | 10 years |
| | OPERATING TEMPERATURE | -30 Deg~ + 45 Deg |
| | MOUNTING HEIGHT | 3 - 5m above ground |
| | BEAM ANGLE | 30 , 60, 90 & 110 degrees |
| | POLE TO POLE DISTANCE | 16 - 20 meters |
| BATTERY | LITHIUM FERRO PHOSPHATE | LIFEPO4 |
| | VOLTAGE | 12.8V |
| | CAPACITY | 233Wh |
| | CYCLES | 2000 - 4000 |
| SOLAR PANEL | RATED POWER | 50w Poly |
| | VOLTAGE AT MAX POWER | 18V |
| | CURRENT AT MAX POWER | 2.78Amp |
| CONTROLLER | CHARGE TYPE | MPPT Smart 365 |
| | DIMMING | Intelligent IC - 100 / 70 / 50 / 30 |
| | DAY NIGHT SENSORS | Integrated into controller |
| | LIGHTING PARAMETERS | 4 stage Programmable |
| | ELECTRICAL PROTECTION | IP 68, Temperature compensation |
| | | Overheating, overcharging and |
| Over discharging protections | | |
| BRACKETING AND BATTERY BOXES | Alu Zinc and powder coated, Manufactured in an SABS approved facility with ISO 9001 3CR12 Stainless steel optional for coastal environments | |
| POLE | Galvanized steel ,3m pole with flood light collar - 76 - 60mm | |
| Powder Coating | Optional | |

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LED Module

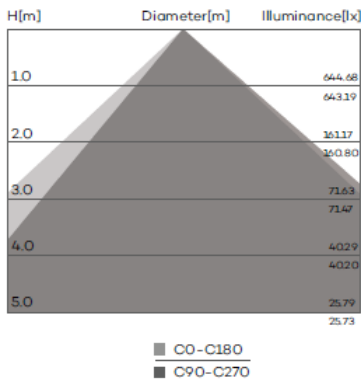


Battery Technology- 3.2V Lithium LIFEP04 Cells

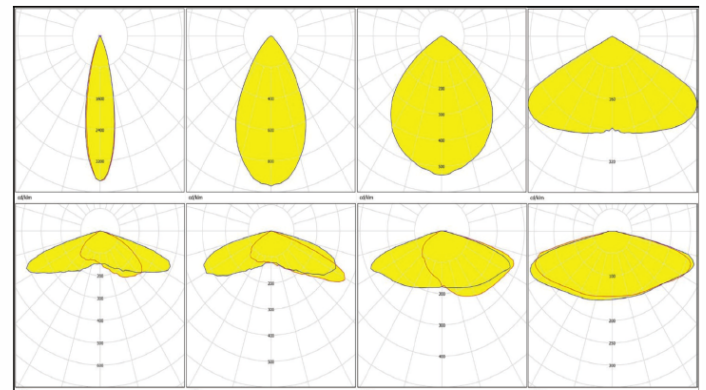


Distribution Curve Flux

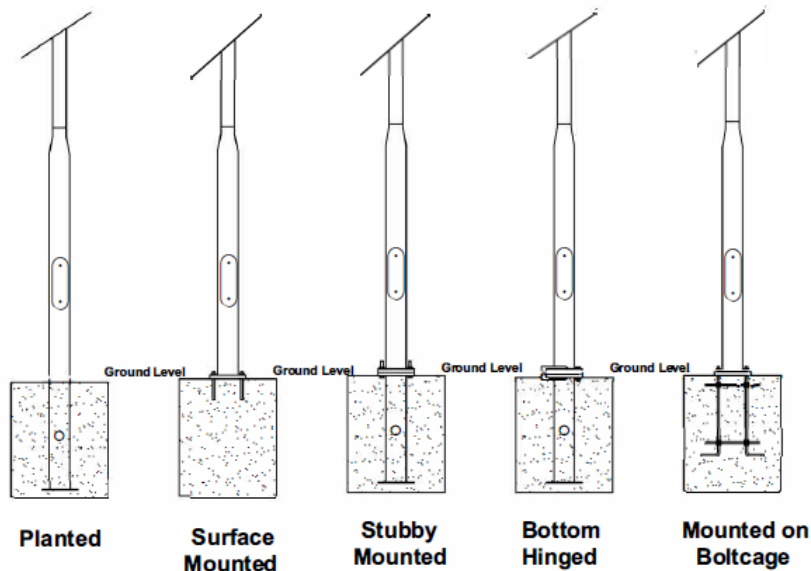
Illumination Cone Curve



LENS Options



Pole mounting options



Components certifications

LM-79 LM-80 TM21 **IP66 IP68**



LOCALLY MANUFACTURED LED AND SOLAR LED LIGHTING