

Solar Lighting System Design Table

Electrical Specification	
LED Lamp	48W
LED Luminous Efficiency	$\geq 95\text{lm/w}$
LED Initial Flux	$>4,560\text{lm}(T_j=25)$
Color Temperature	Cool White:5,000~7,000K; Warm White:3,000~4,000K
Average Illuminance	height=6m,27lux, height=8m,15lux,
Average Brightness/luminance	$> 2\text{ cd/m}^2$ (for 12m road) $> 1.6\text{ cd/m}^2$ (for 16m road) $> 1.2\text{ cd/m}^2$ (for 20m road)
LED Life Span	$> 50,000\text{ hrs}$
LED Lamp	2*48W high power led lamp with Cree chip
Solar Panel	2*150W monocrystalline silcion module
Maintenance Free Battery	2*12V200Ah GEL battery
Solar&Light Controller	Solar&Light hybridred intelligent controller,with automatically time and light seting
Structure Specification	
Pole Height (m)	6m
Lamp Height(m)	5m
Pole to Pole Distance(m)	30m
Arm Type	Double arms
Arm Length	0.7m~1m
Pole Material	Q235 stainless steel
Solar mounting brackets	Stainless steel
Embedded Parts of Pole	Round steel
Groundwork	C25 concrete construction
System Specification	
Average working hours/ day	8
System Autonomous days	3
Dimmable Function	no
Battery Mounting	Under-ground/On-ground
Pictures	