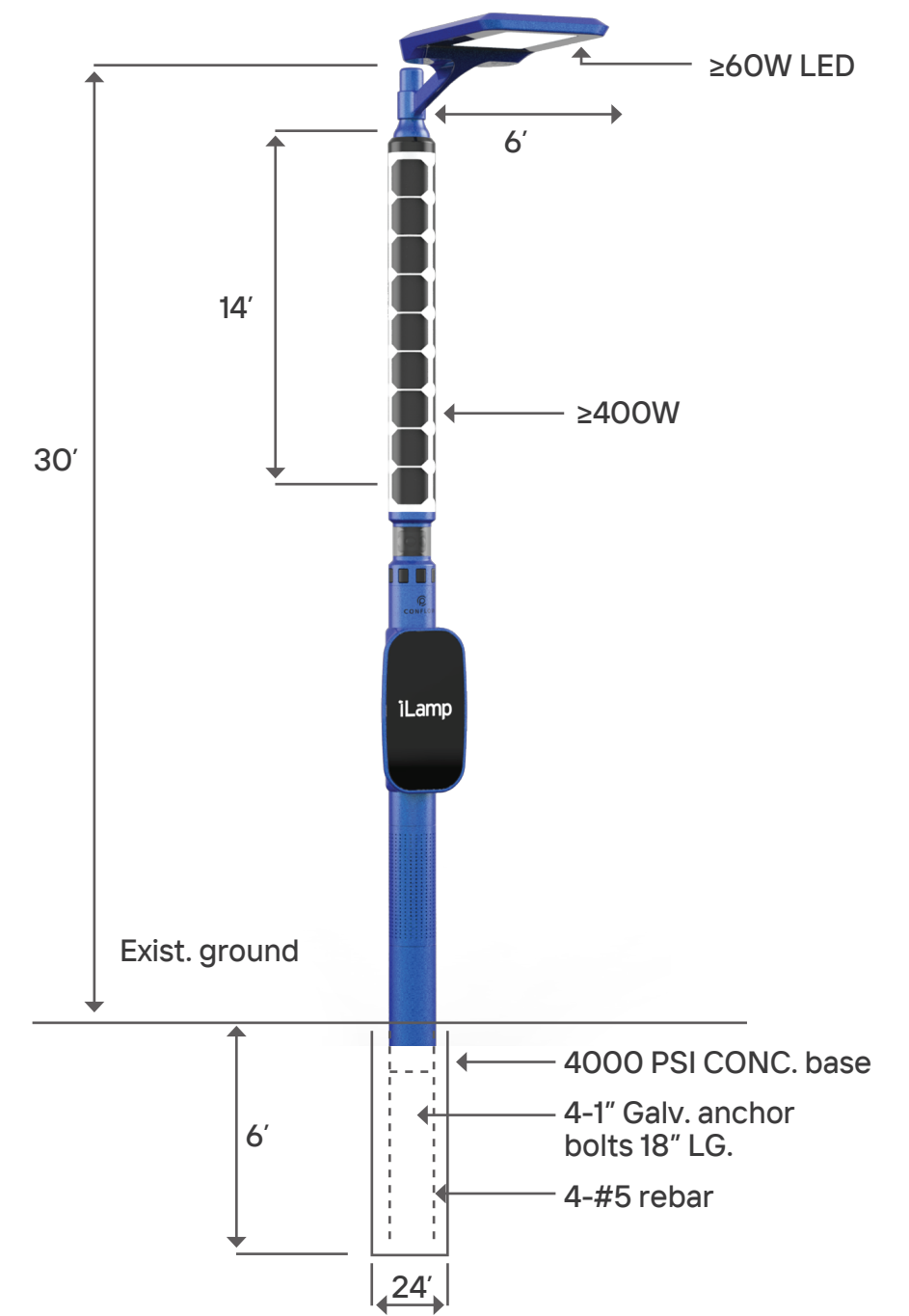
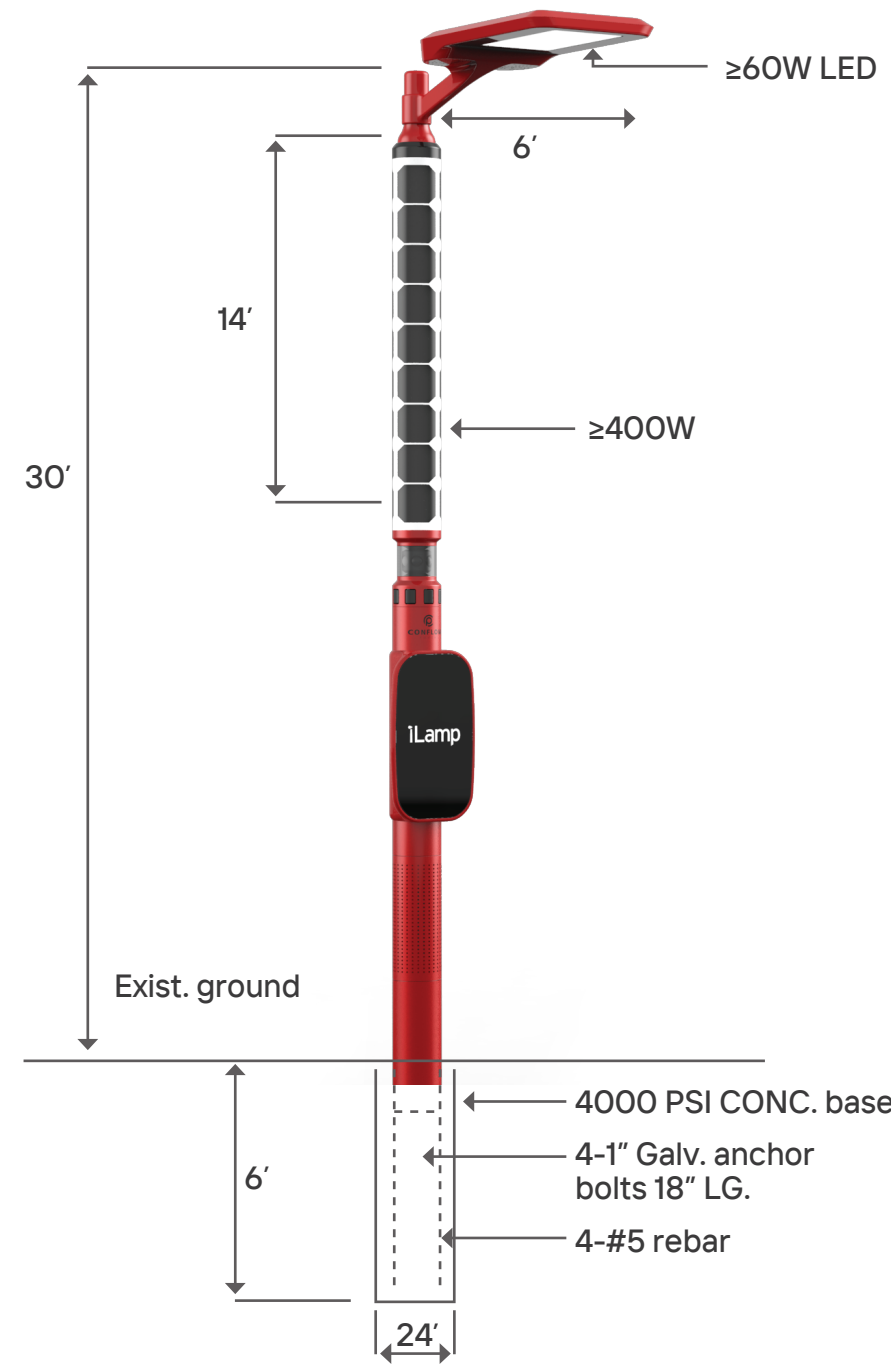


Standard Drawings

Height, modules and light arm and heads are all interchangeable



Broad Specifications	Standard Pole (Single Solar Module)
Hardware	Patented Adjustable Aluminium Array
Solar Panels	≥400W, wrap around, glass covering
Battery Pack	12V, 75AH Lithium Ion / Conflow Device 12V
Lighting & Charge Controller	Exclusively Supplied by CPG
LED Light	≥60W LED, ≥160 lumens per watts
Dimensions (length)	Variable (depending on site conditions)
EPA	5.26ft ²
Weight (lbs.)	200

Lighthouse	
Dimensions	10.66" OD x 164.5" L
Material mounted to	Wooden, Aluminium, Steel or Concrete
Internal Mounting Options	Adjustable universal arm mount for poles up to 5" OD
Material	Anti-corrosive mounting hardware and array
Shape	Circular backing panels

LED Lights	LED Lights 50-50W Lantern or Street Light LED
Lumens	162 LM/W
Input Voltage	24V
CRI Minimum	70 (80 or 90 available special order)
CTT	4000K, 5000K (3000K and 5700K available special order)
Lighting Type	Solid state LED. T4M & T3L stocked. Other types available special order. IES Files available upon request
Life	>100,000 hours
Safety Certification	IP65, UL 1598, UL8750, CE, CB, ANSI C136.31-2001, RoHS Compliant, Meets Buy American requirements with ARRA

Solar Arrays CIGS	400W
Cell Efficiency	15.9%
Rated Peak Power (Pmpp)	400 watts
Power Output Tolerance	+5/-0
Open Circuit Voltage (VoC)	62.6
Max Power Voltage (Vmpp)	50.2
Short Circuit Current (Isc)	4.56
Panel Length (mm)	3457
Max Power Current (Impp)	3.99
Safety Certification	UL 1703, IEC 61646, IEC 61730, cUL 1703, IEC 62716, IEC 61701 (Salt Spray)
Manufacturer Warranty	90% at 10 years, 83.5% at 20 years, 80% at 25 years

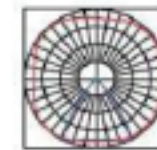
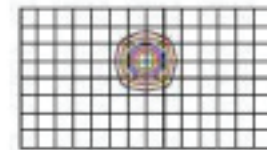
Batteries	Lithium Ion / ConFlow device Battery Pack
Nominal Capacity	75AH
Nominal Voltage	24V
Operating Voltage	20.0V up to 29.2V
Max Discharge Current	20A
Impedance	< 100m
Dimensions	L = 31.5cm, W = 23.0cm, H = 14.0cm
Weight	<16kg
Temperature Range	-30°C to +60°C
Expected Life	12-15 years based on shallow discharge of 4,500 Life Cycle
Autonomy	8 Days

MPPT / BatteryWare	Controller
Max Open PV Voltage Max Current	75.0V DC 15 amps
Battery Voltage Battery Current	29.4V DC 3.0 mps
Light Voltage Light Current	LED Specific
Dimming	0-5V DC
Efficiency	98% peak efficiency
CTemperature Range	-30°C to +60°C
Communications	Bluetooth Connection / Wifi where available
Safety	EN/IEC 62109-1, UL 1741, CSA C22.2

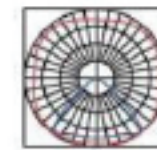
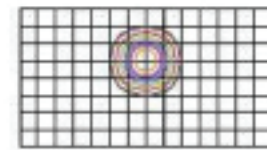
ISO Plot

Polar Curve

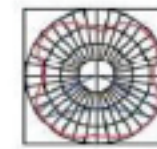
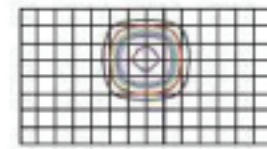
Cu Graph



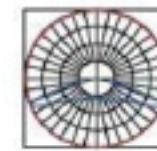
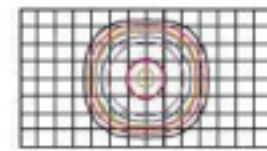
T5 S Average beam angle 60°



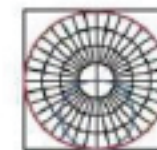
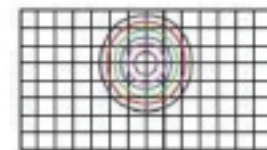
T5 M Average beam angle 90°



T5 L Average beam angle 120°



T5 X Average beam angle 150°



T5 D Diffuser