
CLEARWORLD PRODUCT SPECIFICATION AND CATALOG



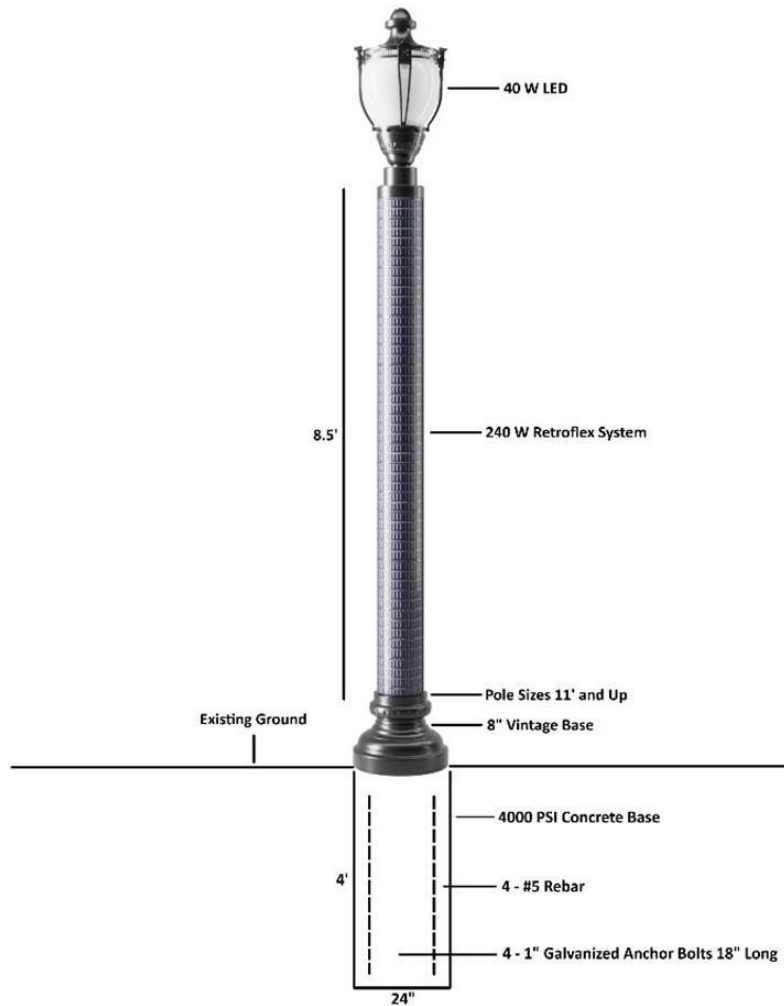
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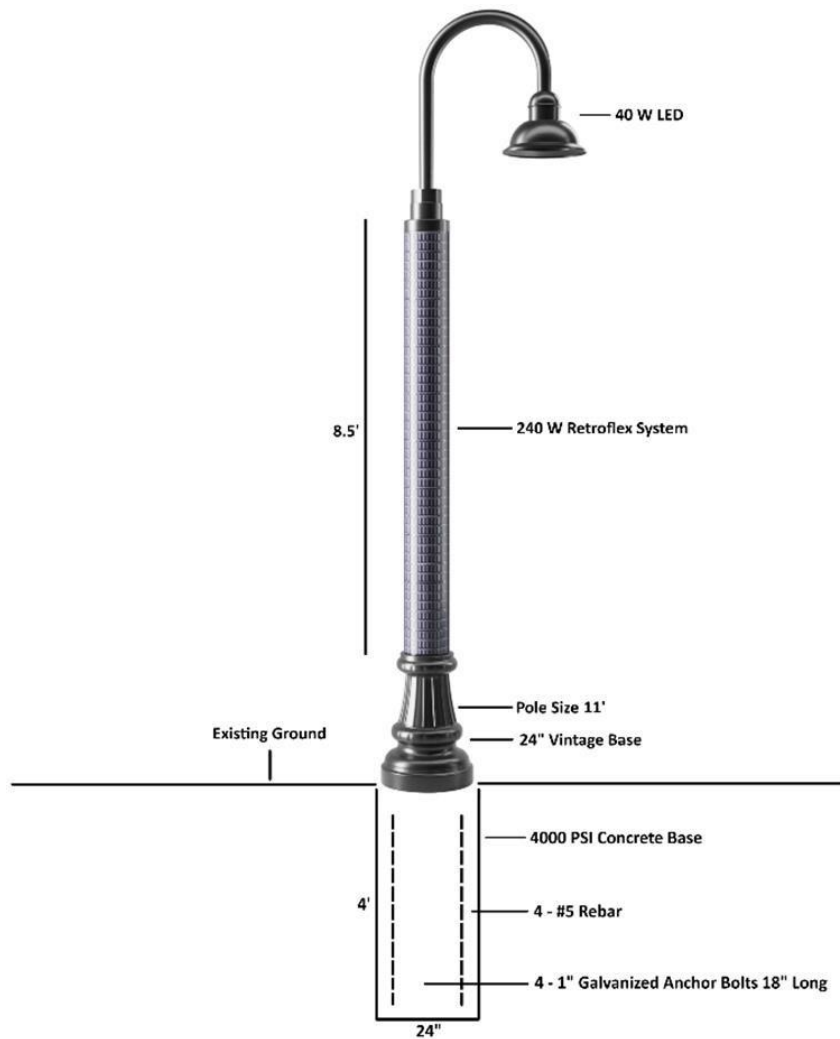
RS240 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RS2402460

SOLAR ARRAY	240W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

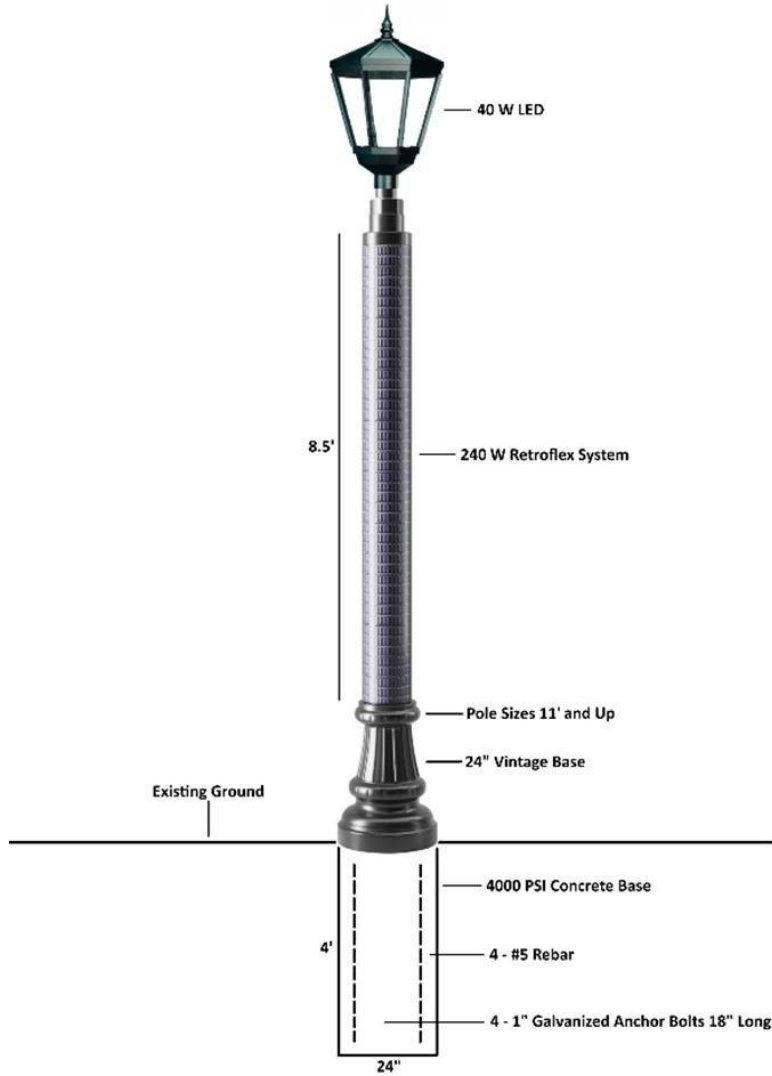
RS240 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RS2402460

SOLAR ARRAY	240W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

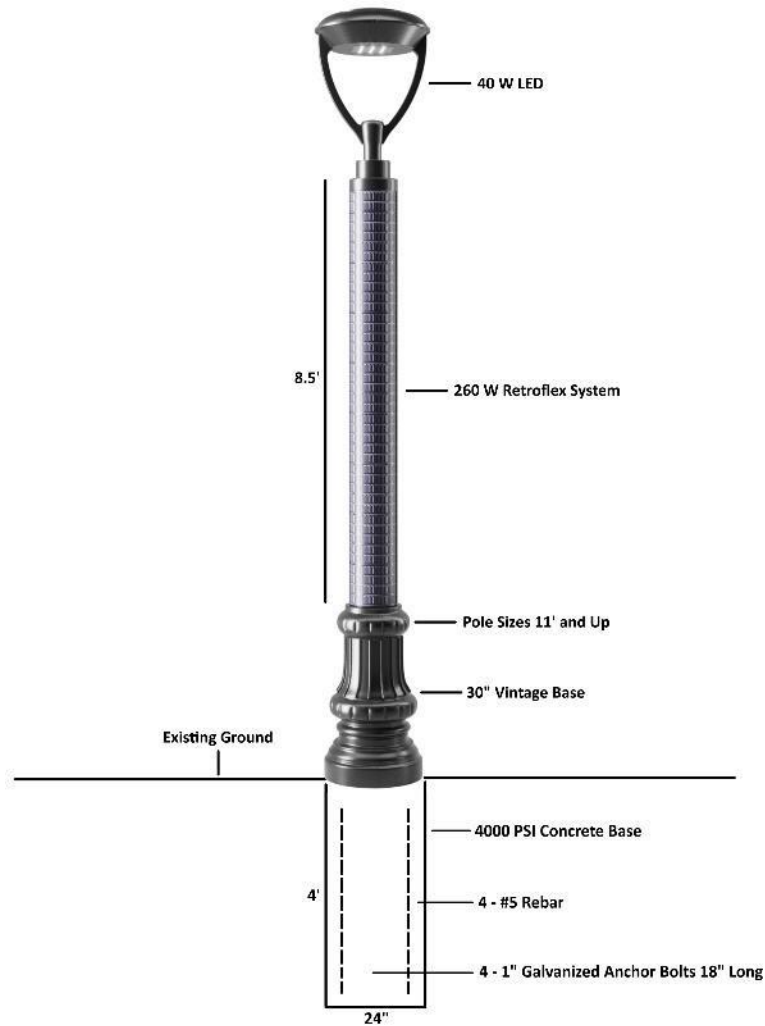
RS240 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RS4002475

SOLAR ARRAY	240W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

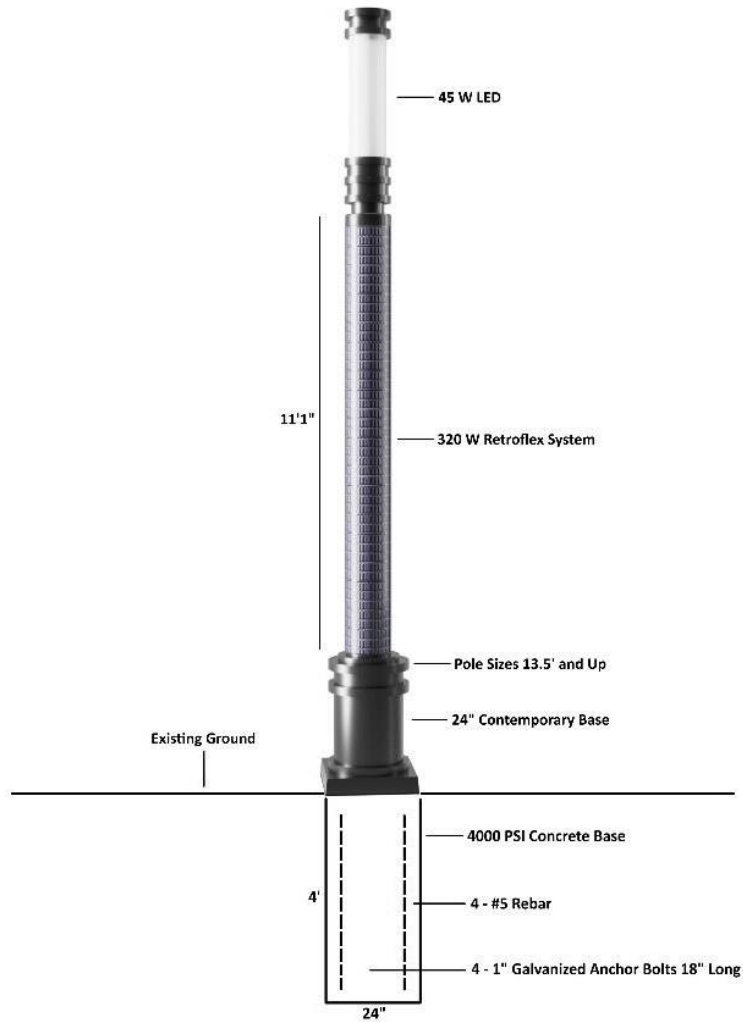
RS260 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RS4002475

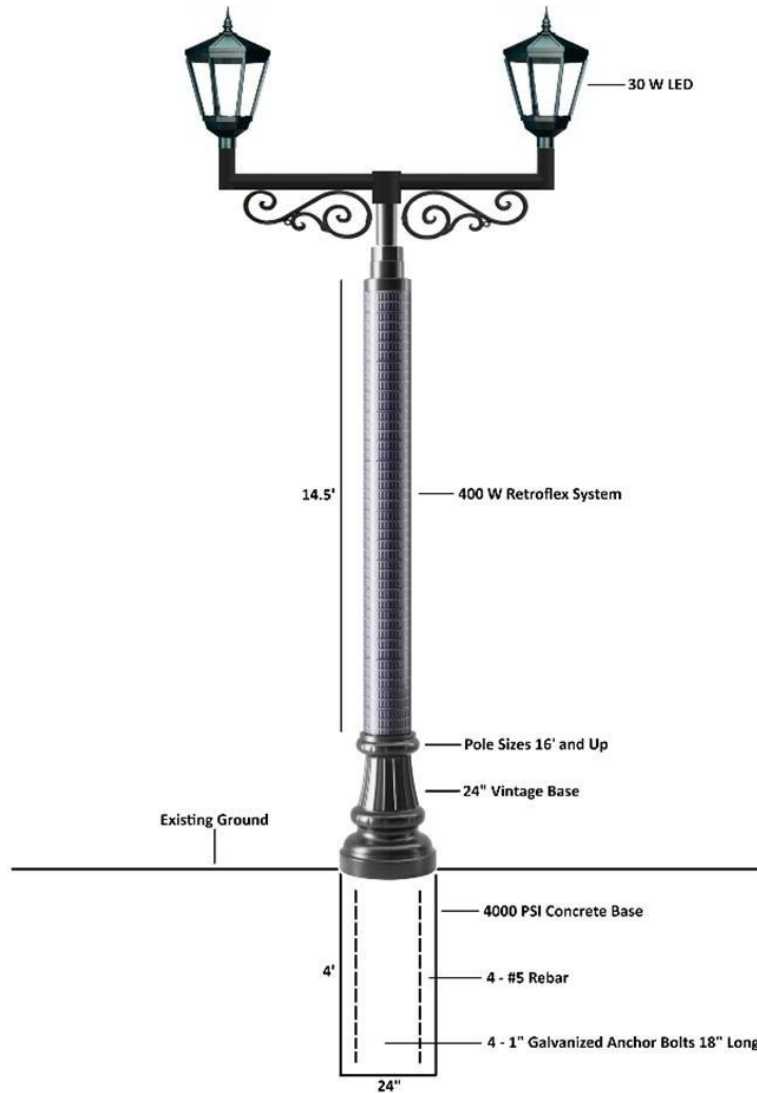
SOLAR ARRAY	260W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

RS320 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RS4002475	
SOLAR ARRAY	320W (11'.1" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	45W
BATTERY	24V - 75A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	9.84

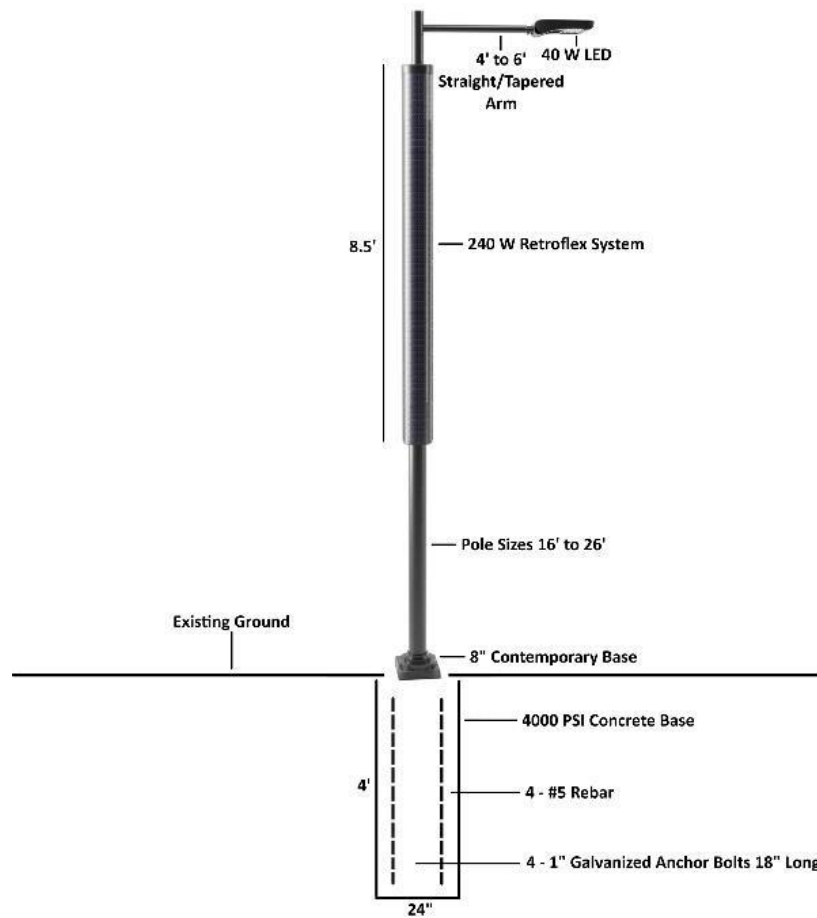
RS400 DOUBLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RS4002475

SOLAR ARRAY	400W (14'5" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	(2) 30W LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 75A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	12.8

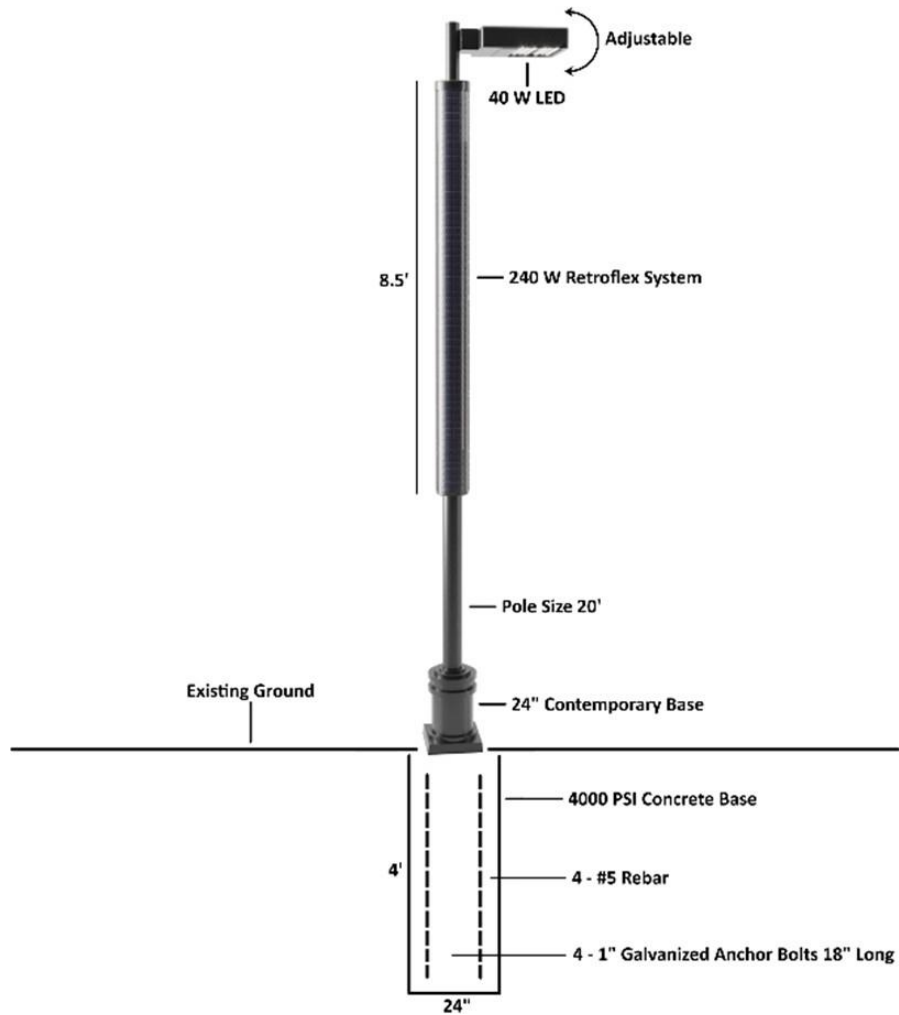
RW240 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW2402460

SOLAR ARRAY	240W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

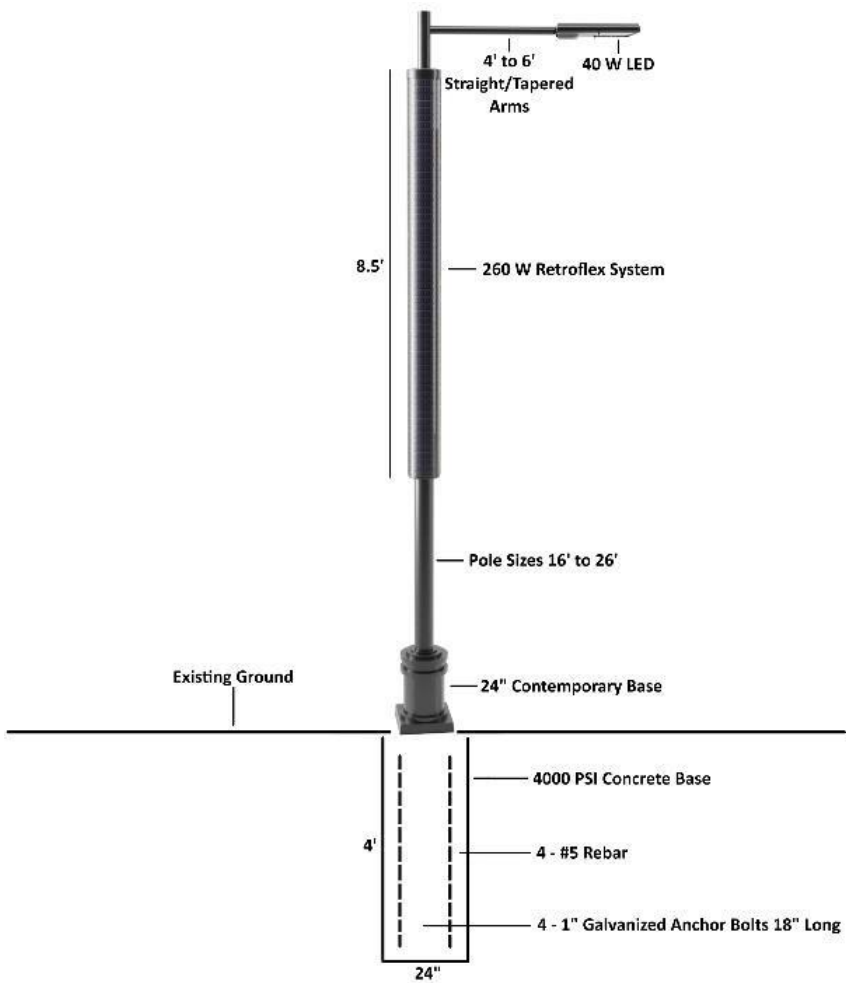
RW240 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW2402460

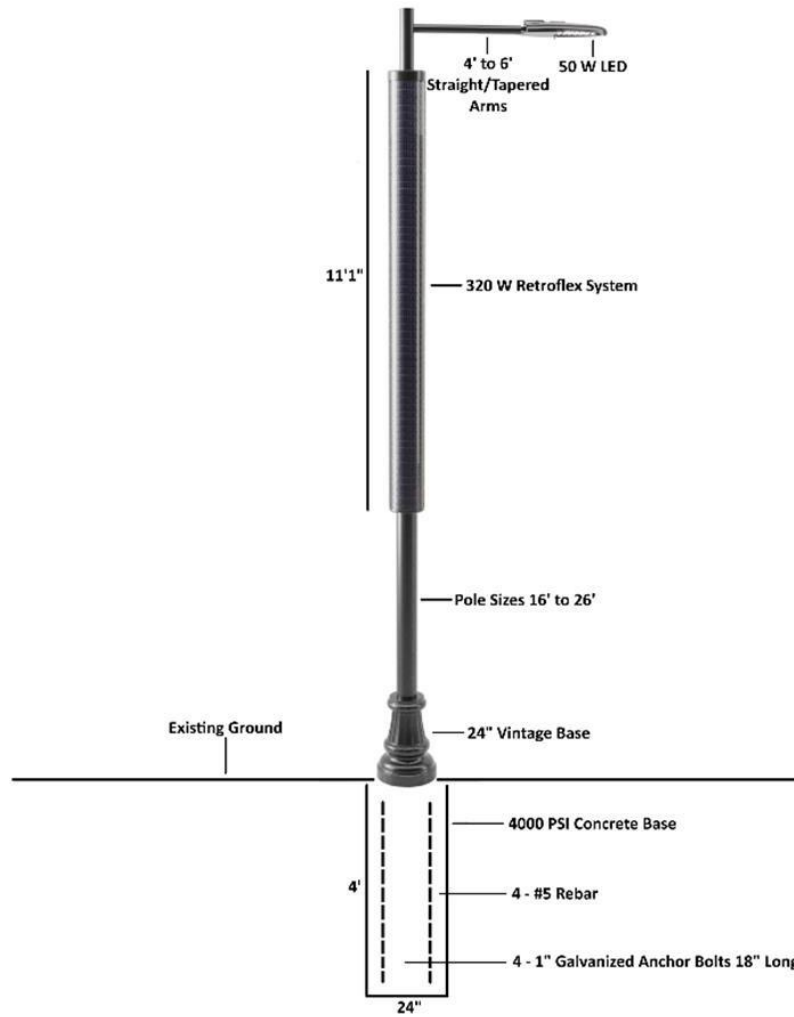
SOLAR ARRAY	240W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

RW260 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW2602460	
SOLAR ARRAY	260W (8'.6" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W
BATTERY	24V - 60A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	7.55

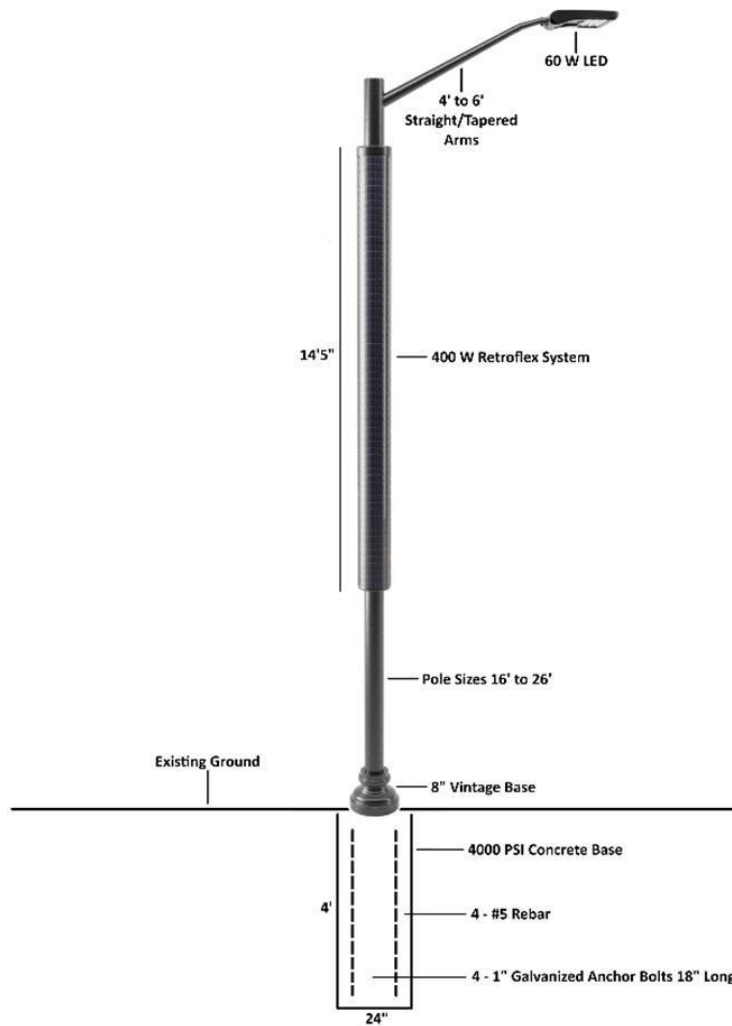
RW320 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW3202475

SOLAR ARRAY	320W (11'.1" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	50W
BATTERY	24V - 75A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	9.84

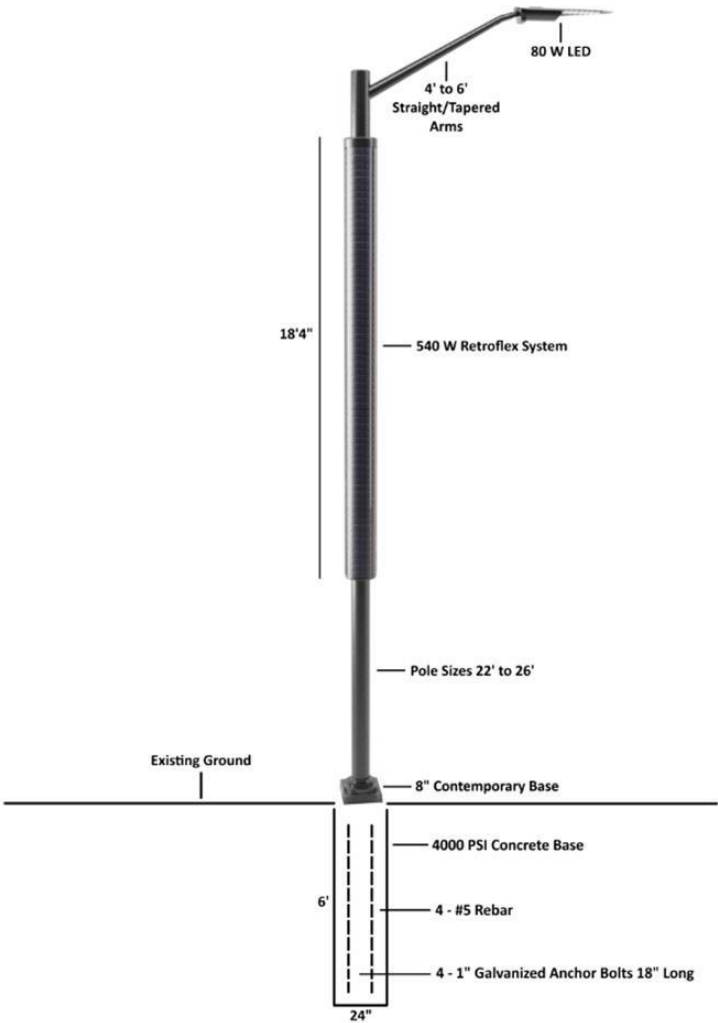
RW400 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW4002475

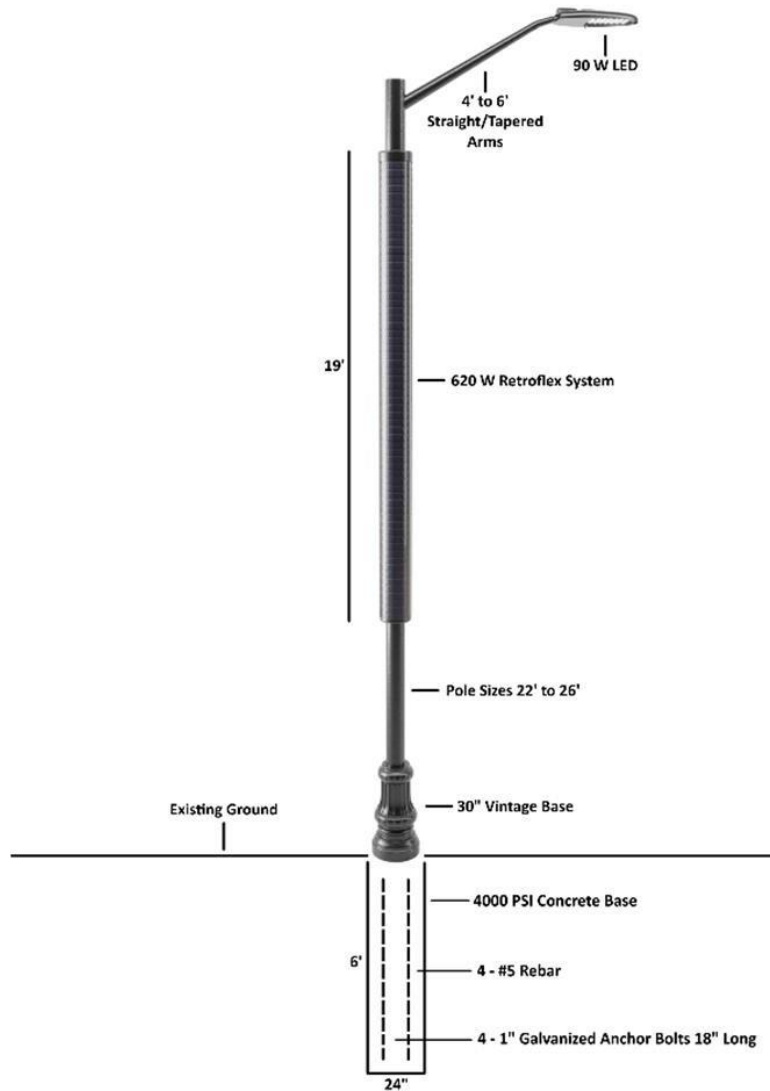
SOLAR ARRAY	400W (14.5" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	60W LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 75A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	12.8

RW540 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW5402490	
SOLAR ARRAY	540W (18.4" IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	80W LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 90A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	16.28

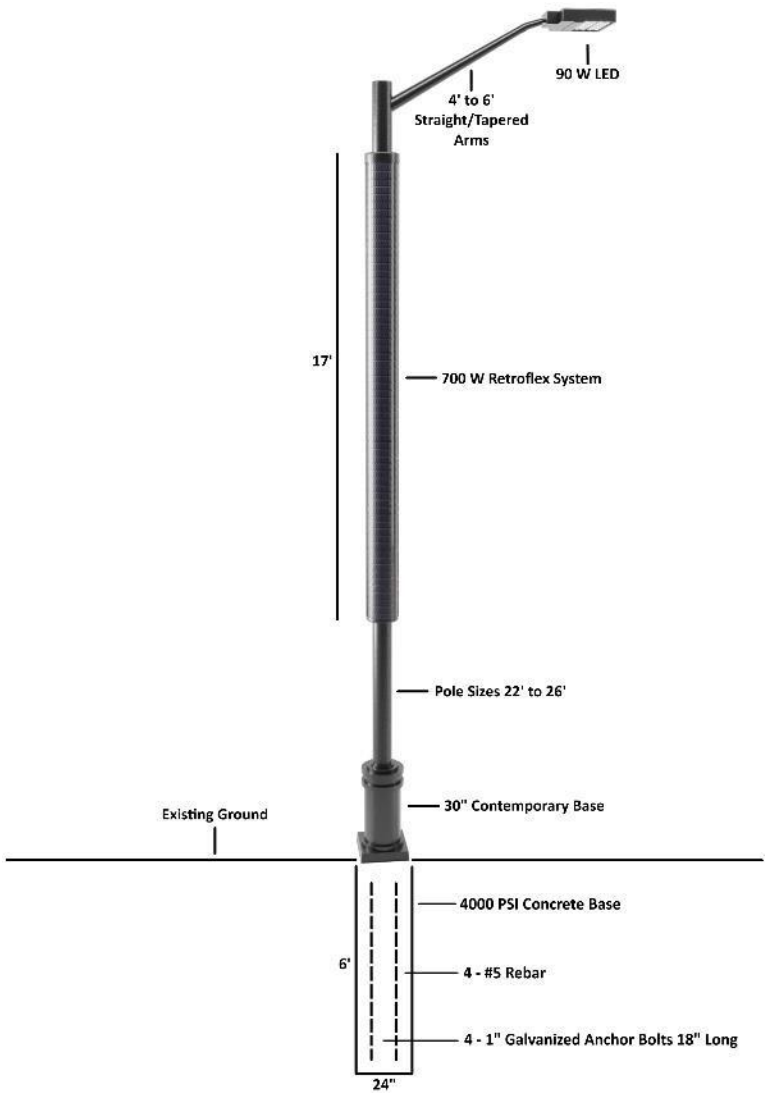
RW620 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW7002490

SOLAR ARRAY	620W (19' IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	90W LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 90A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	16.872

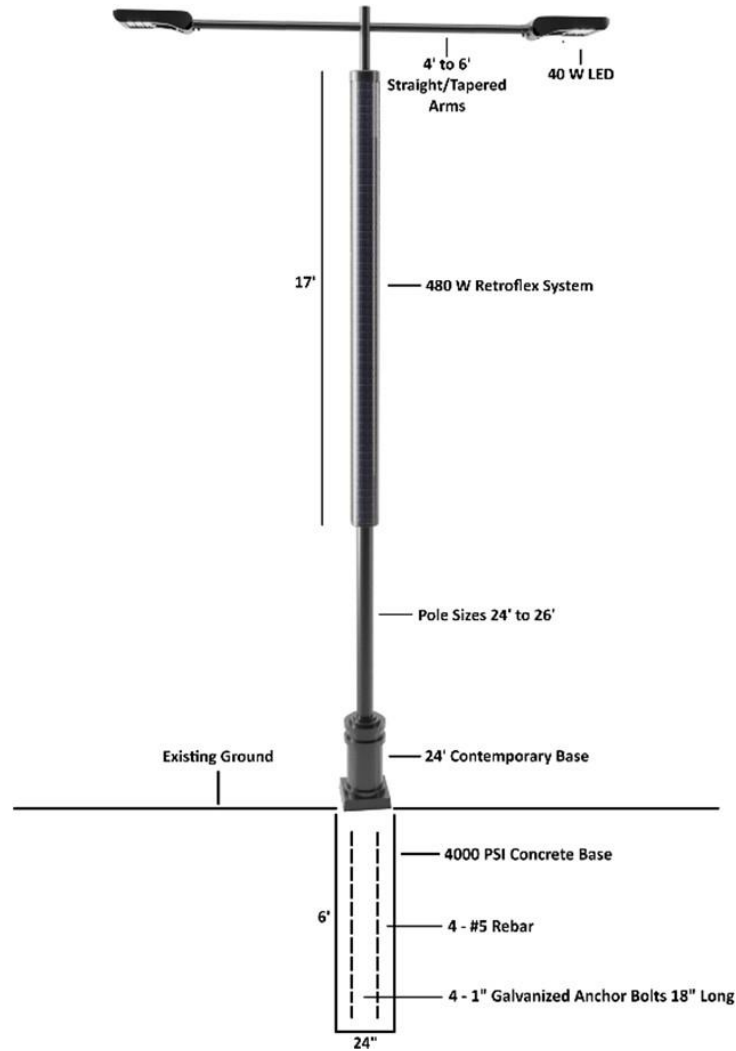
RW700 SINGLE HEAD RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW7002490	
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SOLAR ARRAY	700W (17' IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	80W LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 90A LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	17.425

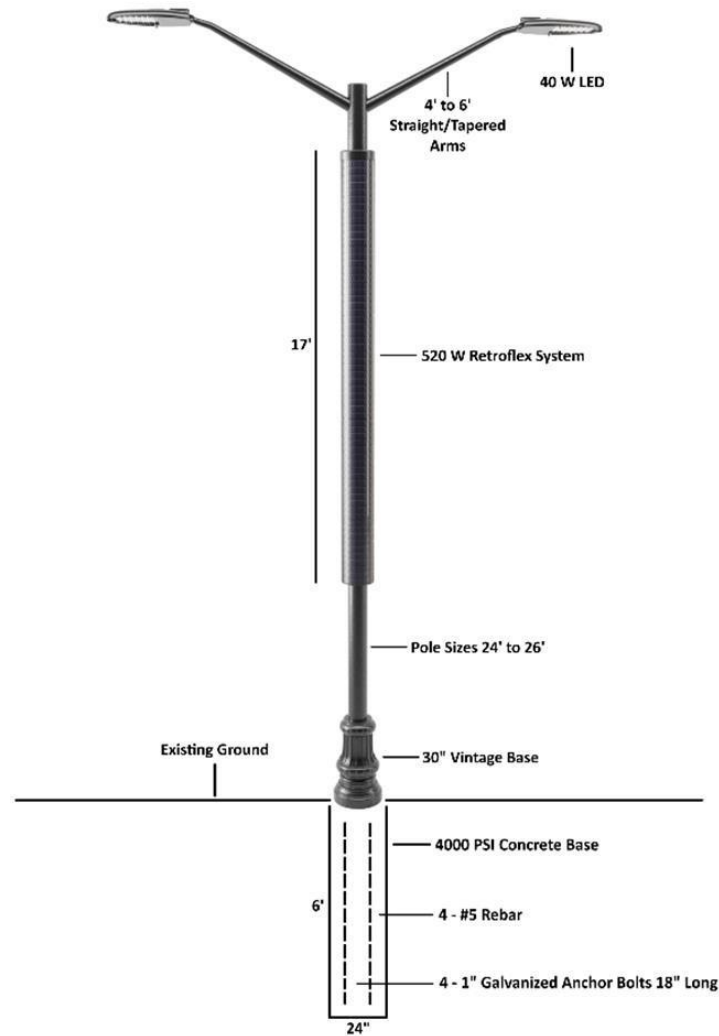
RW480 DOUBLE HEAD ROADWAY RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW48024120

SOLAR ARRAY	480W (17' IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W (2) LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 60A(2) LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	15.096

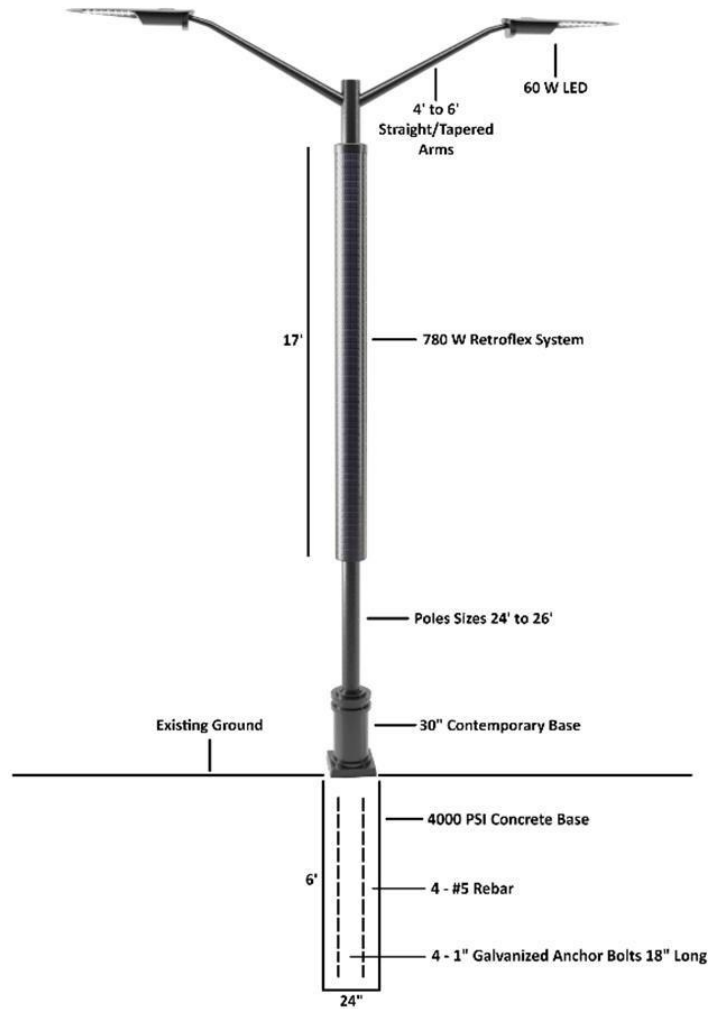
RW520 DOUBLE HEAD ROADWAY RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW48024120

SOLAR ARRAY	520W (17' IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	40W (2) LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 60A(2) LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	15.096

RW780 DOUBLE HEAD ROADWAY RETROFLEX SYSTEM



COMPONENT SPECIFICATIONS RW78024150

SOLAR ARRAY	780W (17' IN LENGTH) WITH ADJUSTABLE ALUMINUM ARRAY
LIGHTING	60W (2) LED MODULE @ 162 LUMENS PER WATT, DIMMABLE
BATTERY	24V - 60A(2) LITHIUM ION 1.8KWH (12+ YEARS LIFE EXPECTANCY)
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	17.425

ROADWAY LUMINAIRES

	GOBO L
	GOBO F
	GOBO T
	GOBO A
	GAMA T
	GAMA L

GOBO A SPECIFICATIONS

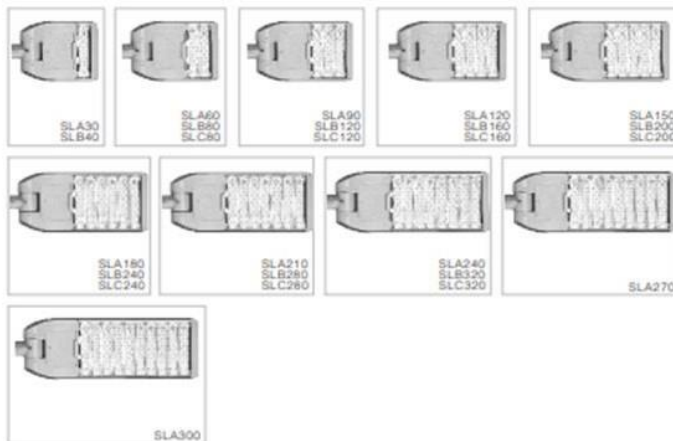


The GOBO A series is an ideal solution for street lighting, available in multiple drive currents and optical distributions. Combining it with our optional motion sensor for even greater energy savings.

FEATURES & BENEFITS

- Die cast aluminum housing.
 - Modular design allows for easy installation, replacement and maintenance. This design also creates chimney effect which provides exceptional thermal management.
 - Tool-less entry to driver compartment.
 - Meets 3G vibration per ANSI C136.31-2010.
 - Corrosion resistant polyester powder painted 100µm thickness.
 - Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
 - Over 15 optical lenses are available for virtually any application.
 - Slipfitter with +/- 20 degree of adjustment for leveling.
 - Multiple smart lighting control options are available, e.g. photocell, motion sensor, DALI, 1-10V.
 - UL/ CUL/ DLC/ LM79/ SAA/ ENEC / CB/ CE/ ErP/ RoHS/ PSE/ Ik08
- Not all products are qualified on the DLC QPL. To view our DLC qualified products please consult the DLC Qualified Product List at www.designlights.org

TECHNICAL PARAMETERS



Power	30-320W
Input	120-277VAC or 220-240VAC or 347-480VAC or 12-24VDC
PF	>0.95
THD	<20%
L70/L90	>200,000H/ >60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-160lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 90
IP Rating	IP67
SPD	10KA* or 20KA
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
Color Options	Grey/Black/Bronze/White

* Standard

GOBO F SPECIFICATIONS



Employing a mix of traditional exterior design elements with modern power-saving technologies, the GOBO F series offers exceptional energy efficiency for faster ROI while providing an aesthetic appeal.

FEATURES & BENEFITS

- Single-cast aluminum housing enables passive heat dissipation along the entire length of the luminaire.
 - Modular design allows for easy installation, replacement and maintenance.
 - Corrosion resistant polyester powder painted 100µm thickness.
 - Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
 - Class II isolation protection.
 - 0 and +5 degree of tilting angle adjustment.
 - Adjustable for 1 5/8-2 3/8" (42mm-60mm) O.D. tenon.
 - Multiple smart lighting control options are available, e.g. photocell, 1-10V.
 - UL/ CUL/ DLC/ LM79/ CB/ CE/ RoHS
- Not all products are qualified on the DLC QPL. To view our DLC qualified products please consult the DLC Qualified Product List at www.designlights.org

TECHNICAL PARAMETERS

Power	20-120W
Input	120-277VAC or 220-240VAC or 12-24VDC
PF	>0.95
THD	<20%
L70/L90	>200,000H/ >60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-160lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 90
IP Rating	IP65
SPD	10KA* or 20KA
DALI	/
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type II, Type III, Type IV, Type V
Color Options	Grey

* Standard



GOBO L SPECIFICATIONS



GOBO L is designed for durability and ease of installation, the sleek external design prevents build up of dust or potentially damaging airborne material on the lighting

FEATURES & BENEFITS

- Compact & sleek design.
 - Tool-less entry to driver compartment.
 - Meets 3G vibration per ANSI C136.31-2010.
 - Corrosion resistant polyester powder painted 100µm thickness.
 - Meets a 1000-hour salt spray certification per ASTM B117/ISO 9227:2012.
 - Adjustable for 1 5/8-2 3/8" (42mm-60mm) O.D. tenon.
 - Multiple smart lighting control options are available, e.g. photocell, motion sensor, DALI, 1-10V.
 - UL/ CUL/ DLC/ LM79 / CB/ CE/ ENEC/ RoHS/ IK08
- Not all products are qualified on the DLC QPL. To view our DLC qualified products please consult the DLC Qualified Product List at www.designlights.org

TECHNICAL PARAMETERS

Power	20-100W
Input	120-277VAC or 220-240VAC or 12-24VDC
PF	>0.95
THD	<20%
L70/L90	>200,000H/>60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-160lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 90
IP Rating	IP67
SPD	10KA* or 20KA
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type II, Type III, Type IV, Type V
Color Options	Grey/Black/Bronze/White

* Standard



GOBO T SPECIFICATIONS



The GOBO T Series luminaire is designed with industry-leading LED technology in accordance to DOT standards. It provides unmatched illumination performance and significant energy savings.

FEATURES & BENEFITS

- Die cast aluminum housing.
 - Modular design allows for easy installation, replacement and maintenance. This design also creates a chimney effect which provides exceptional thermal management.
 - Tool-less entry to driver compartment.
 - Meets 3G vibration per ANSI C136.31-2010.
 - Corrosion resistant polyester powder painted 100µm thickness.
 - Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
 - Over 15 optical lenses are available for virtually any application.
 - 0, +/-2.5, +/-5 degree of tilting angle adjustment.
 - Multiple smart lighting control options are available, e.g. photocell, motion sensor, DALI, 1-10V.
 - UL/ CUL/ DLC/ LM79 / CB/ CE/ RoHS/ IK08
- Not all products are qualified on the DLC QPL. To view our DLC qualified products please consult the DLC Qualified Product List at www.designlights.org

TECHNICAL PARAMETERS

Power	30-240W
Input	120-277VAC or 220-240VAC or 347-480VAC or 12-24VDC
PF	>0.95
THD	<20%
L70/L90	>200,000H/>60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-160lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 90
IP Rating	IP67
SPD	10KA* or 20KA
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type II, Type III, Type IV, Type V
Color Options	Grey/Black/Bronze/White

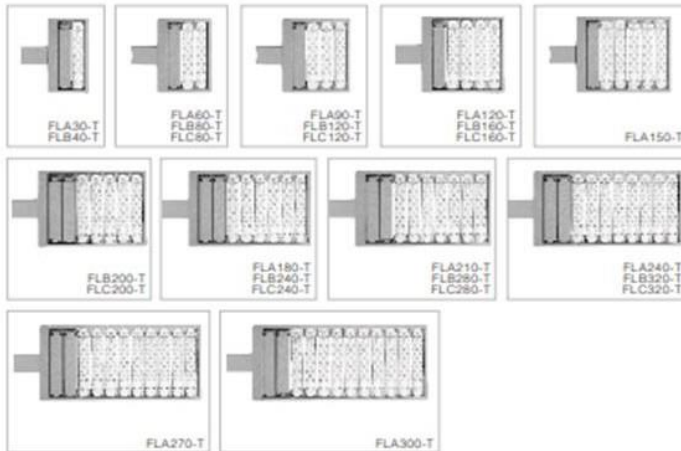
* Standard



GAMA T SPECIFICATIONS



GAMA T is highly suitable for car parks and shop fronts where direct lighting is required. A simple yet functional modular design, combined with the right lens type will improve lighting proficiency.



FEATURES & BENEFITS

- Shoe box appearance with advanced LED system.
- Modular design allows for easy installation, replacement and maintenance.
- Corrosion resistant polyester powder painted 100µm thickness.
- Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
- Interchangeable with the other GAMA Series with a bracket change.
- Multiple lighting control options are available, e.g. DALI, 1-10V.
- UL/ CUL/ DLC/ LM79/ SAA/ ENEC / CB/ CE/ ErP/ RoHS/ IK08

Not all products are qualified on the DLC QPL. To view our DLC qualified products please consult the DLC Qualified Product List at www.designlights.org

TECHNICAL PARAMETERS

Power	30-320W
Input	120-277VAC or 220-240VAC or 347-480VAC
PF	> 0.95
THD	< 20%
L70/L90	> 200,000H/ > 60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-160lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 90
IP Rating	IP67
SPD	Optional
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
Color Options	Black/Grey/Bronze/White

* Standard

GAMA L SPECIFICATIONS



The GAMA L series offers exacting illumination performance featuring advanced LED optical design and multiple light distribution options.



FEATURES & BENEFITS

- Modular design allows for easy installation, replacement and maintenance. This design also creates a chimney effect which provides exceptional thermal management.
 - Corrosion resistant polyester powder painted 100µm thickness.
 - Meets a 1000-hour salt spray certification per ASTM B117/ ISO 9227:2012.
 - Over 15 optical lenses are available for virtually any application.
 - Slipfitter with +/- 90 degree of adjustment for leveling.
 - Interchangeable with the other GAMA Series with a bracket change.
 - Multiple lighting control options are available, e.g. DALI, 1-10V.
 - UL/ CUL/ DLC/ LM79/ SAA/ ENEC/ CB/ CE/ ErP/ RoHS/ IK08
- Not all products are qualified on the DLC QPL. To view our DLC qualified products please consult the DLC Qualified Product List at www.designlights.org

TECHNICAL PARAMETERS

Power	30-320W
Input	120-277VAC or 220-240VAC or 347-480VAC
PF	>0.95
THD	<20%
L70/L90	> 200,000H/ > 60,000H
Operating Temperature	-40°C ~ +50°C
Efficacy	120-160lm/W
ANSI CCT	3000K/4000K/5000K/5700K
Min CRI	70* or 80 or 90
IP Rating	IP67
SPD	Optional
DALI	Optional
1-10V	Optional
Photocell	Optional
Smart Control	Optional
Optic (IESNA)	Type I, Type II, Type III, Type IV, Type V
Color Options	Grey/Black/Bronze/White

* Standard

RESIDENTIAL LANTERN LUMINAIRES

	ACORN WITH BASE
	ACORN WITH CAP & BASE
	ACORN WITH CAGE & BASE
	ACORN WITH CAGE, BASE & TOP CAP

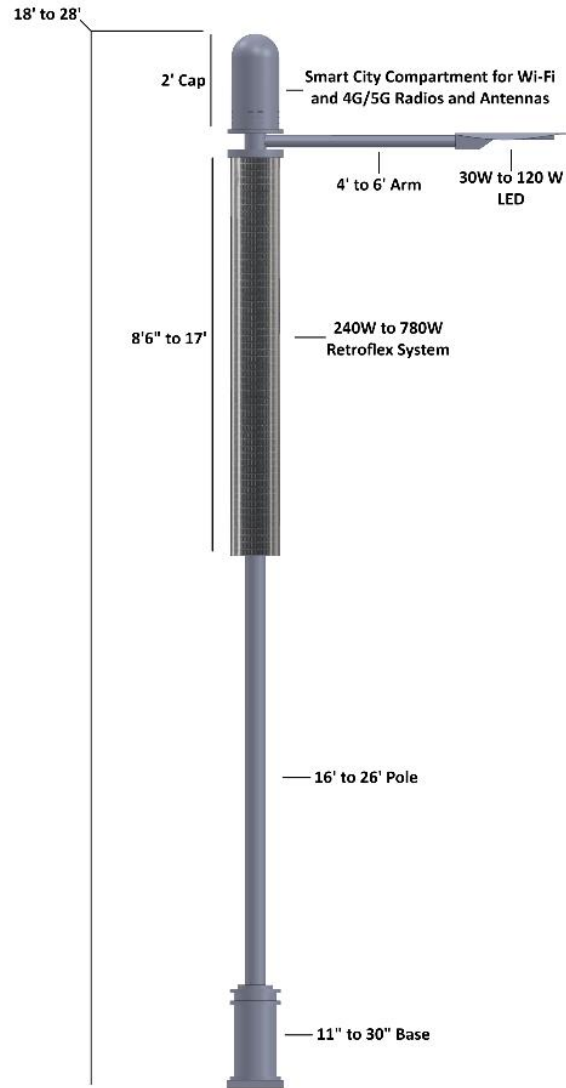
RESIDENTIAL LANTERN LUMINAIRES

	ASTURIAS
	BILBAO
	LIGHT COLUMN
	BRAZO
	LANTERN

RESIDENTIAL AND COMMERCIAL BASES

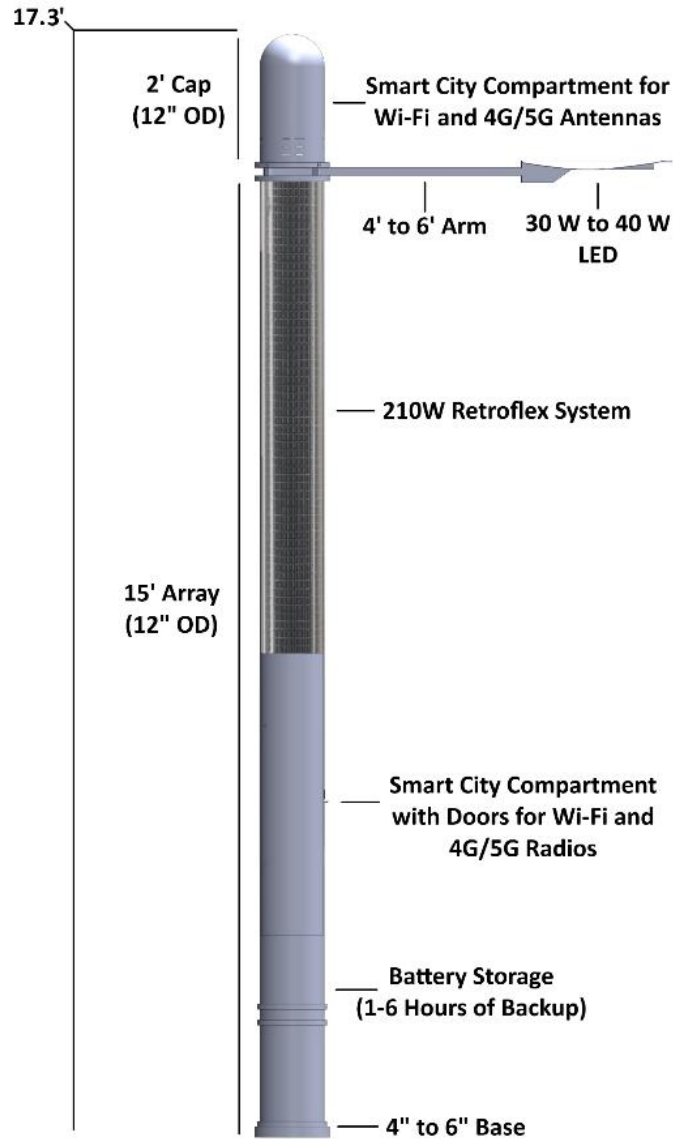
	11" BASE
	24" VINTAGE BASE
	30" VINTAGE BASE
	24" CONTEMPORARY BASE
	30" CONTEMPORARY BASE

SMART POLE (RWSMC)



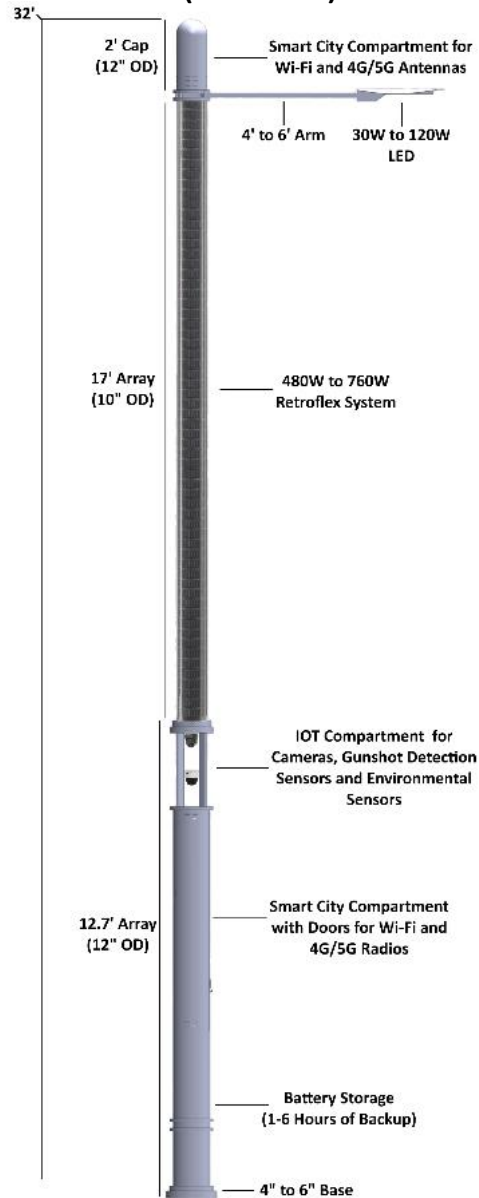
COMPONENT SPECIFICATIONS SMART POLE	
SOLAR ARRAY	240W - 780W
LIGHTING	40W - 90W
BATTERY	24V - 60A (2) TO 24V-90A (2) LITHIUM ION
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	26.16

SMART POLE (RWS)



COMPONENT SPECIFICATIONS SMART POLE	
SOLAR ARRAY	240W - 780W
LIGHTING	40W - 90W
BATTERY	24V - 60A (2) TO 24V-90A (2) LITHIUM ION
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
LIGHTING CONTROLS	BLUETOOTH MONITORING
EPA (SQFT)	26.16

SMART POLE (RWSM)



COMPONENT SPECIFICATIONS SMART POLE

SOLAR ARRAY	240W - 780W
LIGHTING	40W - 90W
BATTERY	24V - 60A (2) TO 24V-90A (2) LITHIUM ION
CONTROLLER	ELECTRONIC MPPT CHARGE CONTROLLER / REGULATOR
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EPA (SQFT)	26.16

SMART POLE OPERATIONS & ECONOMICS

- ADDITIONAL SPACE FOR MULTIPLE CARRIER 4G / 5G RADIOS
- SMART COMPARTMENT HOUSING FOR WIFI & 4G / 5G ANTENNAS
- VARIOUS CAMERA OPTIONS FOR PUBLIC SAFETY / SECURITY
- VARIOUS WIFI OPTIONS FOR 2.4GHZ AND 5GHZ NETWORKS
- GUNSHOT DETECTION SENSORS FOR THREAT DETECTION
- DIFFERENT TYPES OF ENVIRONMENTAL SENSORS FOR MONITORING AIR QUALITY, TEMPERATURE, HUMIDITY, PRESSURE, WATER LEVEL SENSOR, ETC.
- USB FAST CHARGER FOR CHARGING PHONES OR TABLETS
- EMERGENCY CALL 911 BUTTON FOR MEDICAL AND EMERGENCY SITUATIONS.
- MOTION SENSOR APPLICATION FOR POWER SAVING AND LONGER BATTERY BACKUP.
- CAMERAS WITH ARTIFICIAL INTELLIGENCE FOR FACIAL RECOGNITION, LICENSE PLATE RECOGNITION AND TRAFFIC MONITORING.
- PTZ CAMERA COMPATIBILITY WITH GUNSHOT DETECTION SENSOR FOR CAPTURING PHOTOS / VIDEOS OF A THREAT OR GUNMAN.
- ADDITIONAL BACKUP POWER AVAILABLE VIA AC POWER FOR REDUNDANCY.
- EASY ACCESS TO BATTERIES / RADIOS FOR QUICK AND EASY MAINTENANCE AND REPLACEMENT.

Wireless Lighting Monitoring and Controls

Standard Bluetooth Monitoring/Control Option (Included in Retroflex System)

ClearWorld's smart lighting monitoring and control can monitor and control multiple luminaire types. Our primary network control uses 2.4 GHz Bluetooth networking. You can monitor and control the extensive features of your lighting with built-in Bluetooth in the pole by going near the pole and pairing it with your smartphone or tablet via the VictronConnect app. These lighting controls have been used with different types of luminaries in the past.

ClearWorld's smart lighting controls are fully programmable and are capable of PWM and 0-10 V dimming as well as ON/OFF functionality. This is done by connecting to the pole using the VictronConnect app. For remote installations - even when there is no internet connection or phone signal nearby - you may be able to monitor and control your lighting by Bluetooth-pairing. The user can then schedule the lights to turn ON/OFF and dim according to their needs and the application. This system works without an Internet connection which is a plus.

ClearWorld's smart lighting monitoring and controls are fully wireless and are based on a 2.4 GHz Bluetooth networking.

ClearWorld's smart lighting monitoring and control system is a plug and play design and is a set it and forget it solution. The user does not have to worry about changing anything after installation. And it's also very easy to use.

ClearWorld's smart lighting solution has the ability of real time system monitoring. Real time statistics of battery voltage and current, solar panel voltage and current, load voltage and current, power produced by the solar panel as well as power consumed by the load can be displayed in a smartphone or a tablet via the app. The status of each light as well as other information can be viewed in the app.

ClearWorld's smart lighting solution allows the user to monitor system data such as energy production, energy consumption, voltage, current and light status wirelessly. This data can be monitored by the user in real time. The user can also view the history of the system data up to 30 days.

ClearWorld's smart lighting system is secured via AES128, WEP, WPA and WPA2 encryption. Our system runs off solar power completely and is totally off-grid, so there are no power supply requirements.



Optional ClearWorld Platform-as-a-Service(PaaS) Remote Monitoring/Control Upgrade(Additional)

ClearWorld's secondary network control uses either Ethernet or Cellular networking. You can remotely monitor and control the extensive features of your lighting via the Internet with your smartphone, tablet or PC via the ClearWorld PaaS.

The user can remotely monitor and control their lighting from a centralized location from anywhere in the world via the ClearWorld PaaS from their smartphone, tablet or PC. You will need an Internet connection and a network to the poles to realize remote monitoring and control of all the poles from anywhere in the world.

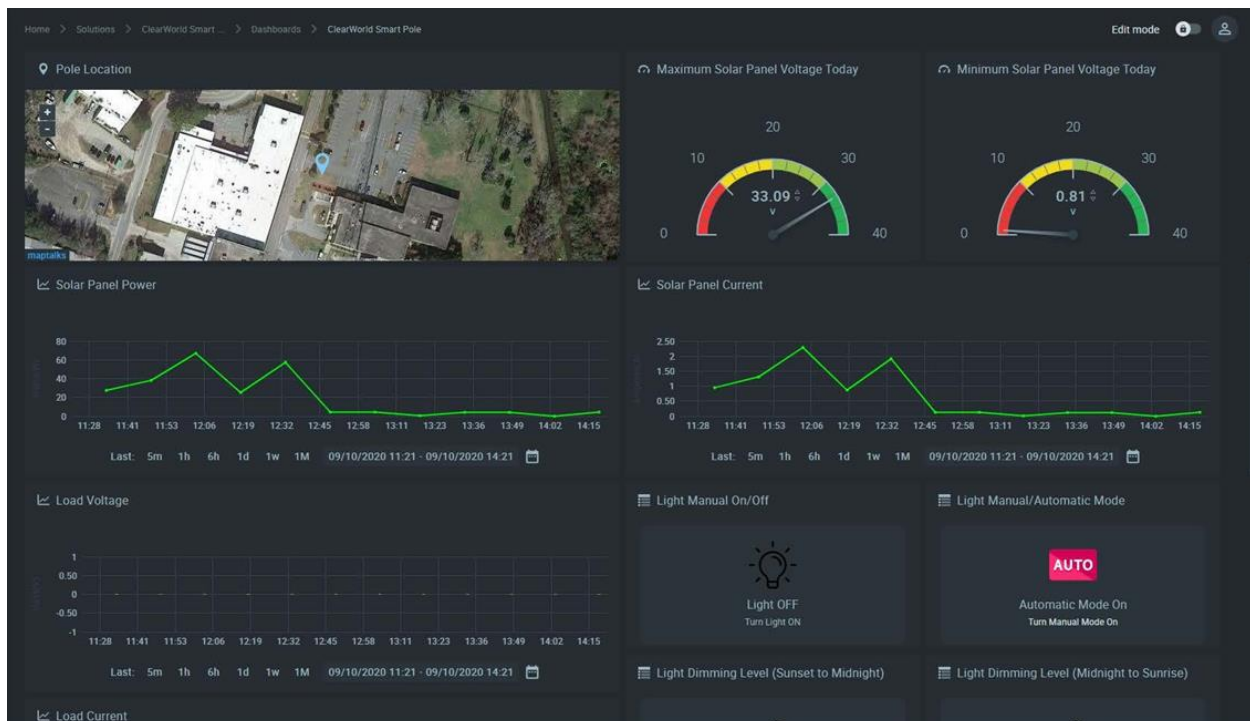
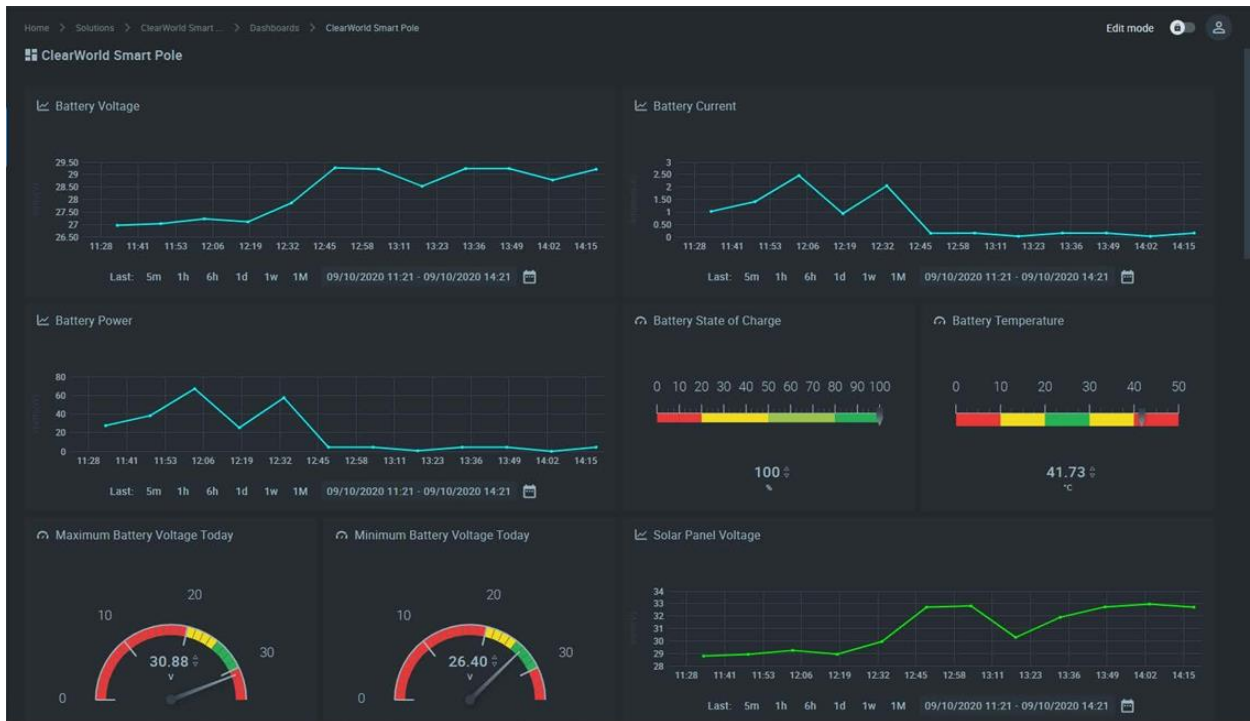
The customer has two options for network connectivity: Ethernet and Cellular.

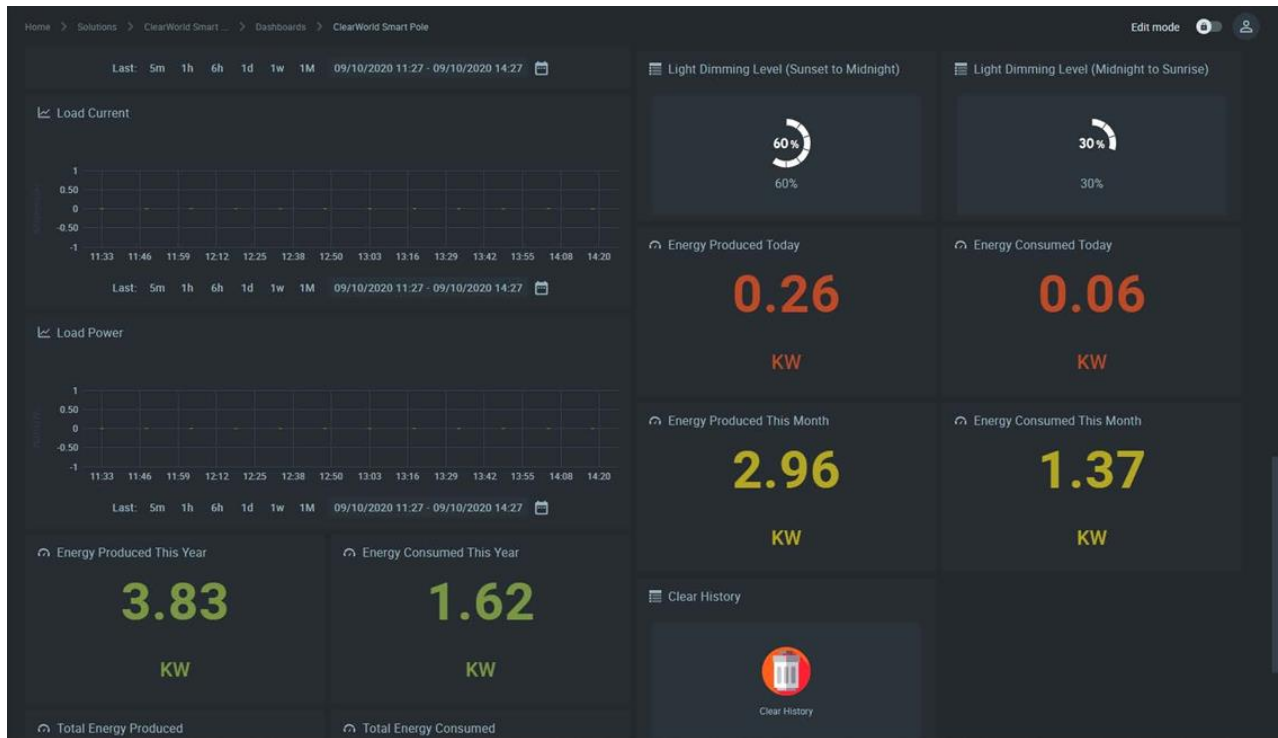
For Ethernet connectivity, the network can be either provided by the customer or ClearWorld (network is additional). The Internet connection has to be provided by the customer.

For Cellular connectivity, the network is provided by ClearWorld(network is additional). The data charges have to be paid by the customer.

ClearWorld PaaS Remote Monitoring and Lighting Control has a dashboard to view near real time statistics of battery voltage and current, solar panel voltage and current, load voltage and current, power produced by the solar panel as well as power consumed by the load. The dashboard also allows to view the status of each light as well as other information.

ClearWorld PaaS Remote Monitoring and Lighting Controls are fully programmable and are capable of PWM and 0-10 V dimming as well as ON/OFF functionality. The user can schedule the lights to turn ON/OFF and dim according to their needs and the application remotely from anywhere in the world via the ClearWorld PaaS Dashboard.





SMART APPLICATIONS – ENVIRONMENTAL SENSORS

❑ ENVIRONMENTAL SENSORS..... \$399

❑ TEMPERATURE SENSOR

❑ HUMIDITY SENSOR

❑ PRESSURE SENSOR

❑ SMOKE & GAS SENSOR

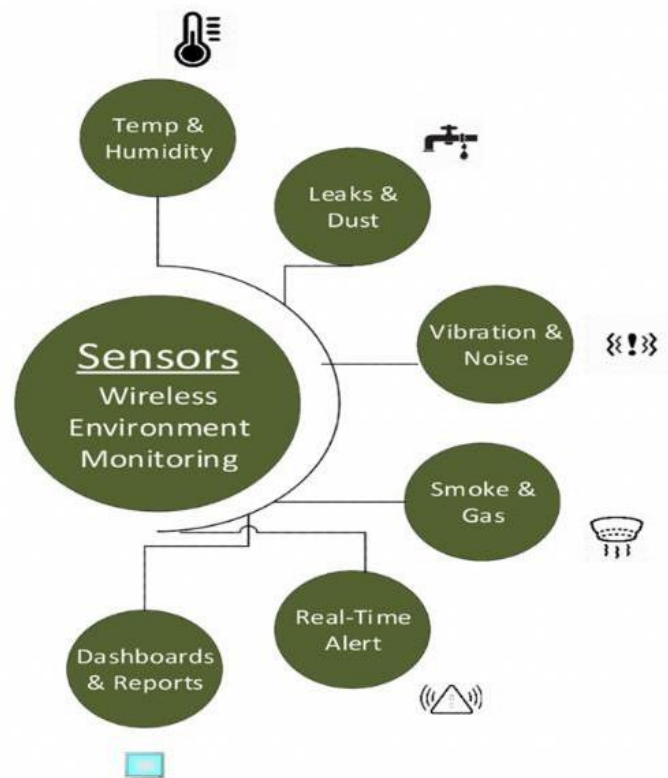
❑ SUNLIGHT SENSOR

❑ AIR QUALITY SENSOR

❑ WATER SENSOR (FLOOD SENSOR)

❑ VIBRATION & NOISE SENSOR

❑ DUST SENSOR



SMART APPLICATIONS – CAMERAS & WIFI

- ☐ 2 MP CAMERA..... \$489
- ☐ 4 MP CAMERA..... \$559
- ☐ 4 MP FACIAL RECOGNITION CAMERA..... \$649
- ☐ PTZ CAMERA\$849
- ☐ 2 MP VF BULLET CAMERA LPR \$849
- ☐ 3 MP AI ENFORCEMENT CAMERA LPR...\$1599
- ☐ GUNSHOT DETECTION...\$3495
- ☐ EMERGENCY CALL BUTTON.....\$869
- ☐ MOTION SENSOR... \$75
- ☐ USB CHARGER..... \$80
- ☐ WIFI MESH \$475
- ☐ WIFI MESH PRO.....\$545
- ☐ CLEARWORLD BLUETOOTH CONNECTAPP.....\$FREE
- ☐ CLEARWORLD NETWORK SERVER..... \$6/DEVICE
 - ☐ REMOTE CENTRALIZED MANAGEMENT SYSTEM FOR
LIGHTING CONTROLS AND SOLAR
 - ☐ DASHBOARD VISIBILITY

COMMISSIONING & PROFESSIONAL SERVICES

- ☐ INTEGRATION AND COMMISSIONING (PER POLE)\$600.00
- ☐ PROFESSIONAL SERVICES
 - EXPANDING IoT OFFERING

AGREEMENT AND WARRANTY

- ☐ 5 YEAR WARRANTY ON HARDWARE FOR SMART APPLICATIONS
- ☐ ALL TIER PRICING IS ON PROJECT BY PROJECT BASIS
- ☐ 3 YEAR AGREEMENT
- ☐ 10 YEAR “LIMITED” ON SYSTEM PARTS

