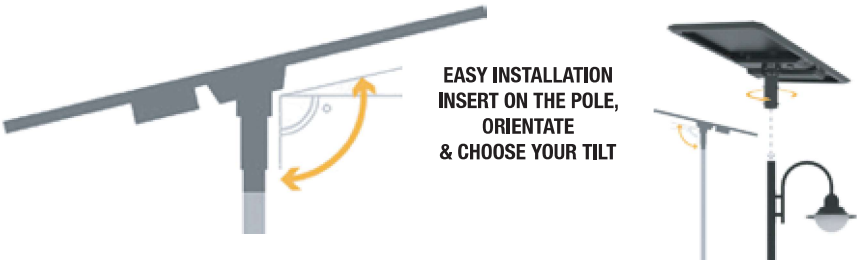
SOLAR PATHWAY LIGHT

CAPE™
Solar Post Top Light



Our Cape Street Light enjoy a mix of modern and colonial unique design. Cape features high-performing LEDs fueled by solar energy and lithium LifePo4 battery featuring compact sturdy design. Our Cape are constructed to resist harsh environments and a lifetime of over 8 years without maintenance. Made from the highest components for the highest level of performance and durability.

- High quality solar panel made with A grade monocrystalline cells. Solar panel efficiency up to 19.4%.
- Easy installation with a well designed bracket insert on the pole, orientate and choose your tilt.
- High pressure die-cast low-copper aluminum. Protection class IP66, using highest quality polyester powder coating from AKZO NOBEL.
- Microwave motion sensor with 360 degree coverage of 24 ft radius. Invisible and integrated microwave motion sensor to the luminaire house.
- MPPT controller automatically track the maximum power point according to the weather variation. Charging rate of 16–30%.
- The eco-friendly and safe LifePo4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more then 10 years.
- Auto identify day/night, smart mode operation.
- Up to 150 lumens per watt and IP66 rated.
- 5 Years limited warranty on all components



5 Year Limited Warranty

BEYOND SOLAR

CE IEC IP65 RoHS

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Specifications

Model #	SKU #	Power	PV Type	Solar Panel	Lithium Battery	Lumens	Pole Height	IP Rating	Material
AVS-CAPE-20W	789112	20W	MONO	72W/18V	24AH 12.8V	3000 LM	10.4987 FT	IP66	ALUMINUM
AVS-CAPE-40W	789111	40W	MONO	135W/18V	49AH 12.8V	6000 LM	16.4042 FT	IP66	ALUMINUM
AVS-CAPE-2X20W	789113	2X20W	MONO	135W/18V	49AH 12.8V	2 X 3000 LM	16.4042 FT	IP66	ALUMINUM

SAVINGS
INSTALLATION, ENERGY, UTILITY, AND MAINTENANCE.


AVS-**CAPE-20W**


AVS-**CAPE-40W**


AVS-**CAPE-2X20W**



Correlated Color Temperature

5000K



Cool White **Neutral White** **Warm White**

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Product Design and Benefits



ALUMINIUM CASING.
Perfect for heat dissipation, direct airflow on the battery

ANTI BLACK OUT

Optimal component calibration and intelligent management system

UNEQUALED LIFETIME

Selection of the latest and best component technology

EXTREME TEMPERATURE

Resistant
-4°F to 149°F

WORLDWIDE WARRANTY

We offer a 5 years warranty on all the components

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Product Design and Benefits

COMPONENTS
& ADVANTAGES

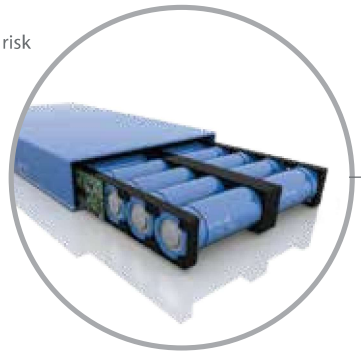


SOLAR PANEL

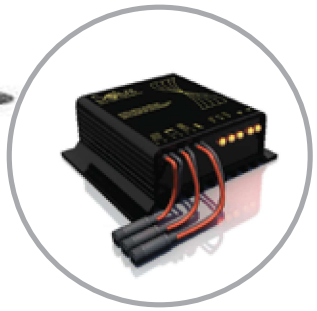
MICROWAVE
MOTION
SENSOR

EASY
MAINTENANCE
with a direct access to
battery and controller.

SAFE
No explosion risk



LED FIXTURE



BATTERY
LITHIUM LIFEPO4

MPPT / SMART CONTROLLER
97% CHARGING EFFICIENCY

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SOLAR PATHWAY LIGHT

Components & Advantages

BATTERY
LITHIUM LIFEPO4

The Eco-friendly and safe LiFePO4 battery improves the cyclic charge and discharge over 2000 times and has a life span of more than 10 years.

BATTERY MANAGEMENT SYSTEM

Electronic Algorythm Protection and battery management system for best use of the battery capacity.

MULTI PROTECTION

- OVER LOAD
- OVER CURRENT
- OVER TEMPERATURE
- OVER VOLTAGE
- OVER CHARGE
- OVER DISCHARGE

LIFEPO4	VS	LI ION
Over **4000** cycles		Over **500** cycles
No Risk of Explosion		Very High Risk Explosion in High Temperature
-10 to 75 Degree		0 to 45 Degree
Over 10 Years		24 to 32 Months
		50% Cheaper than LiFePO4

MPPT / SMART CONTROLLER
97% CHARGING EFFICIENCY

MPPT (Maximum Power Point Tracking) controller automatically track the maximum power point according to the weather variation.

Charging rate : 16-30%

FEATURES

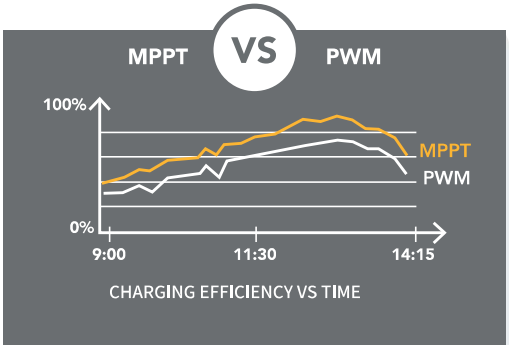
- Maximum power point tracking charging
- Auto identify day/night
- 4 levels dimming design
- Smart mode operation
- **Waterproof IP66**

IP66



IR REMOTE CONTROL MONITORING

- Check the state of the battery
- Check the charging history
- Settle different running time slots
- Issue diagnostic



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Installation

EASY INSTALLATION
INSERT ON THE POLE, ORIENTATE & CHOOSE YOUR TILT

With a well designed bracket support all the models are very easy and flexible to install on the pole. This model also allow you to choose the orientation and the tilt of the PV panel.

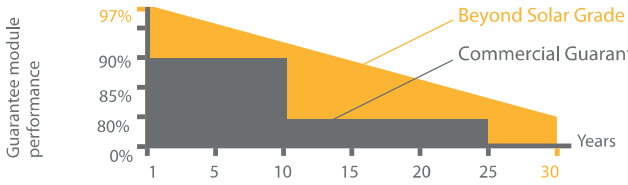


SOLAR PANEL
72 TO 135 WATTS

Solar panels high quality monocrystalline solar cells grade A. Solar panel efficiency up to 19.4%. 5 busbars cells for a better collected current capability. Full IP67 including the junction box



OUR PV PERFORMANCE GUARANTEE

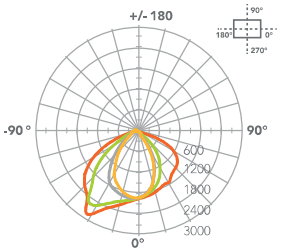


LED LIGHTING
FROM 4500 TO 12000 LUMENS

PHILIPS

Combined with heat dissipation design, pure aluminium lamp base with seal lense for an optimal lighting and life span. Batwing lens for a perfect illumination and uniformity.

LIGHT DISTRIBUTION CURVE
UNIT : CD



C0/**180,117.0** C60/**240,72.7**
C30/**210,86.3** C90/**270,65.2**

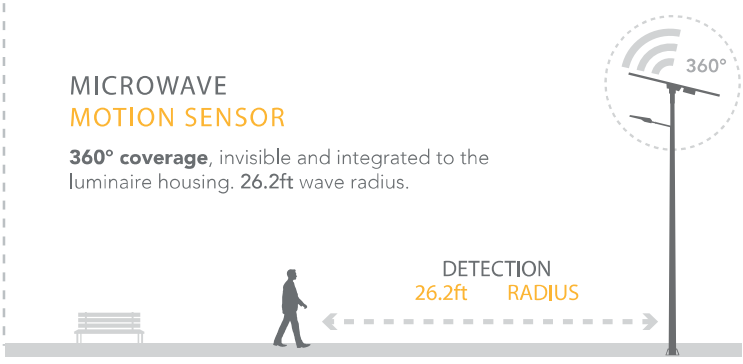
LUMINAIRE HOUSING

High pressure die-cast low-copper aluminum. Protection class IP66. We use a high quality Polyester Powder coating from AKZO NOBEL.



MICROWAVE MOTION SENSOR

360° coverage, invisible and integrated to the luminaire housing. **26.2ft** wave radius.



OPERATION MODE

THE PHOTOSENSOR WILL AUTOMATICALLY SWITCH ON & OFF THE LIGHT FROM DUSK TO DAWN.

Remote not included with purchase; provided only upon request for custom settings.

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Technical Specifications

MADE FROM THE
HIGHEST COMPONENTS

We selected the best components **for the highest level of performance and durability**







	AVS-CAPE-20W	AVS-CAPE-40W	AVS-CAPE-2X20W
LED POWER	20 WATTS	40 WATTS	2*20 WATTS
LUMINOUS FLUX	3000 LUMENS	6000 LUMENS	2*3000 LUMENS
LIGHTING			
Efficiency	150 LUMENS / WATTS		
Chips	PHILIPS LUXEON		
LED Lifetime	OVER 50000 HOURS LM80		
Lighting Angle	120 DEGREE		
Light Height	10.5 ft	16.4 ft *CUSTOMIZABLE*	16.4 ft
STORAGE			
Technology	LITHIUM IRON PHOSPHATE LIFEPO4 18650 INCLUDING BATTERY MANAGEMENT SYSTEM BMS		
Capacity	24 AH 12.8 VOLTS	49 AH 12.8 VOLTS	49 AH 12.8 VOLTS
Autonomy	OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP		
Charging time	6-7 HOURS		
Lifespan	OVER 2500 CYCLES - 8 TO 10 YEARS LIFETIME		
Certificate	EN 61427 MSDS		
ENERGY			
Solar panel	72 WATTS /18V	135 WATTS /18V	135WATTS /18V
Lifespan	MONOCRYSTALINE PANEL GRADE A 25 YEARS		
Certificates	IEC 61215 ; IEC 61730 I AND II ; IEC 60904		
ELECTRONIC			
Controller	MPPT SMART CONTROLLER		
Sensor	MICROWAVE 360 DEGREE MOTION SENSOR		
Cabling	WATERPROOF CONNECTOR, PLUG AND PLAY		
Certificates	EN 55015 ; EN 61000		
DIMENSIONS			
Unit Size H*h*l			
Carton size			
Net weight			
Gross weight			
QTY per container 20» / 40»			

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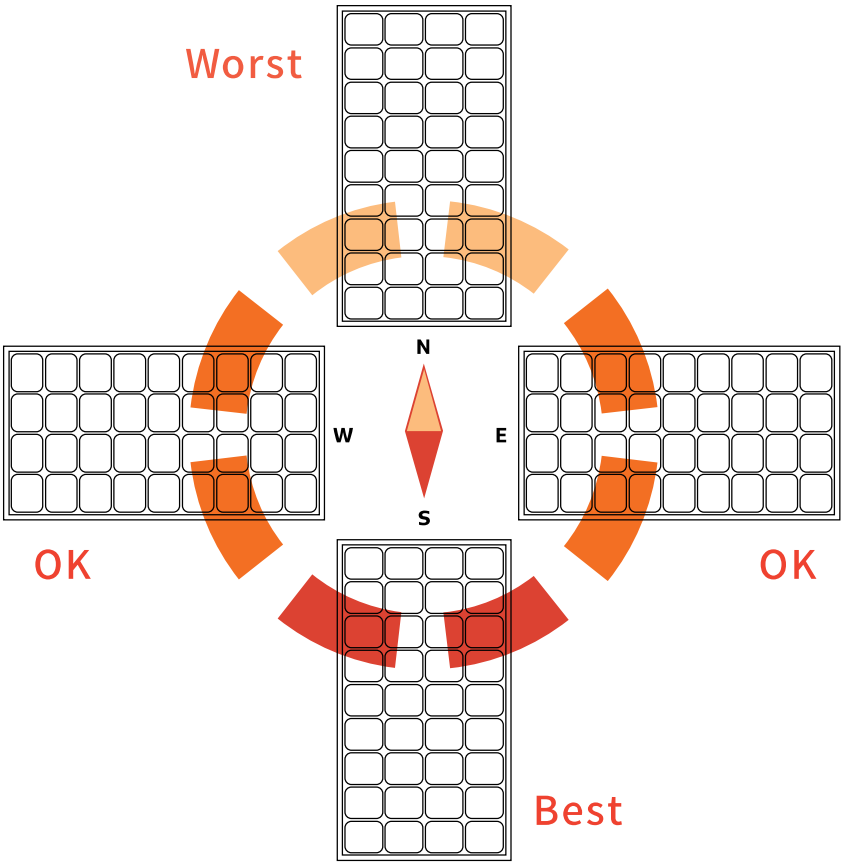
Optimum Panel Orientation

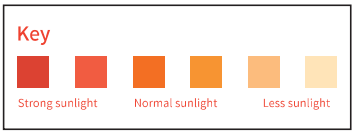
The Solar charge in a battery pack won't last forever. The off–grid system relies on stored solar energy for autonomy. Angling your solar panels properly can boost the power intake of your solar lighting system. You want to angle your solar panels at a tilt based on the area's latitude.

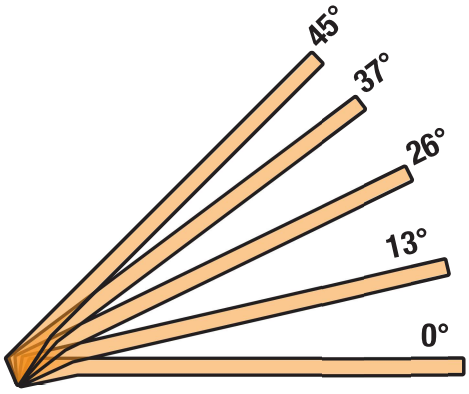
Tip for Maximum Power

You can increase the tilt 15° in the winter or decrease 15° in the summer.
In this way you can get the maximum sunlight to recharge the battrey.

Best Facing Direction of Solar Panel





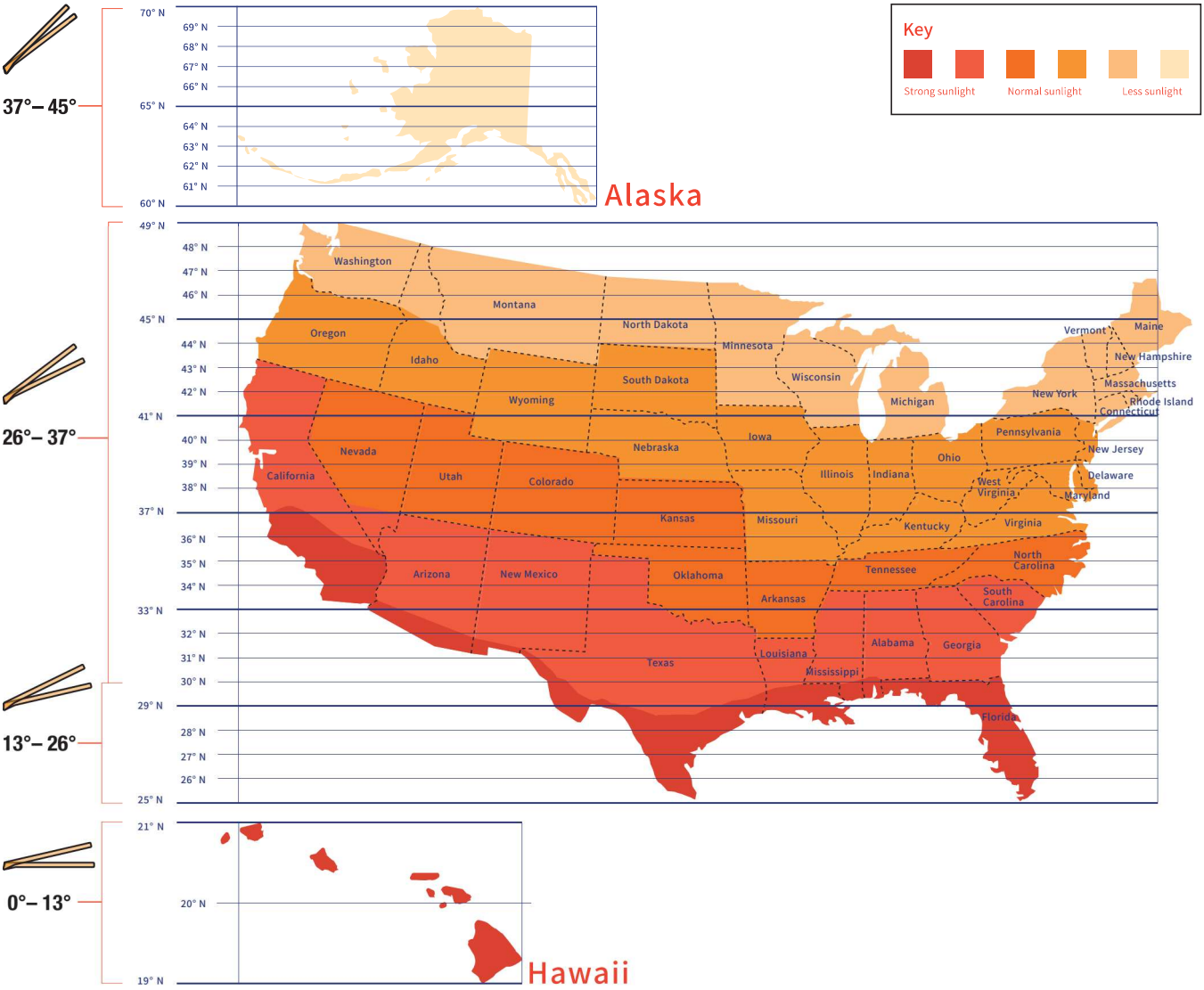


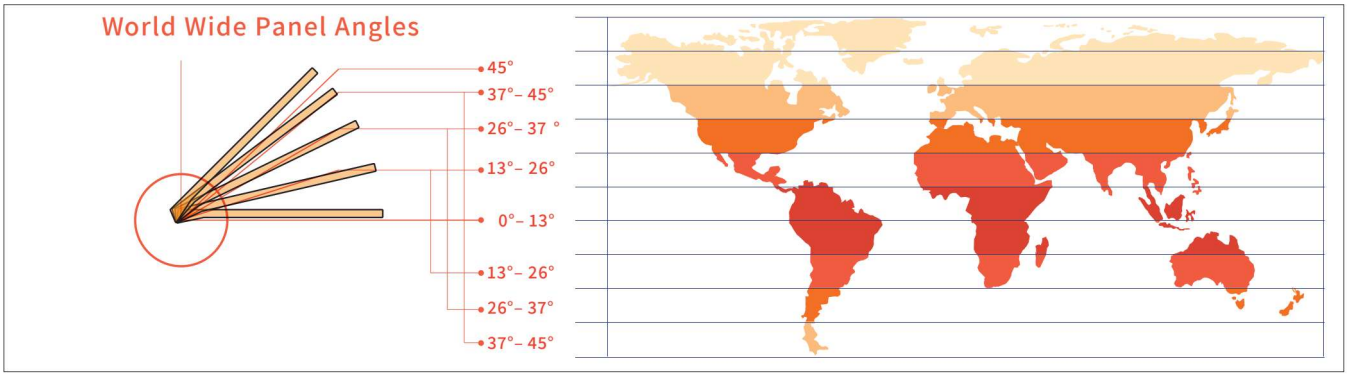
The area will dictate the installation of the fixtures and will sometimes prevent the lights from facing south. Panels facing West & East won't get as much light as Southern facing panels, but will stillcollect a good amount of sunlight. A North facing panel also works, but it will take longer to charge than any other direction. This would mean that the solar charge will be less optimal if installations are facing North.

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Optimum Panel Orientation





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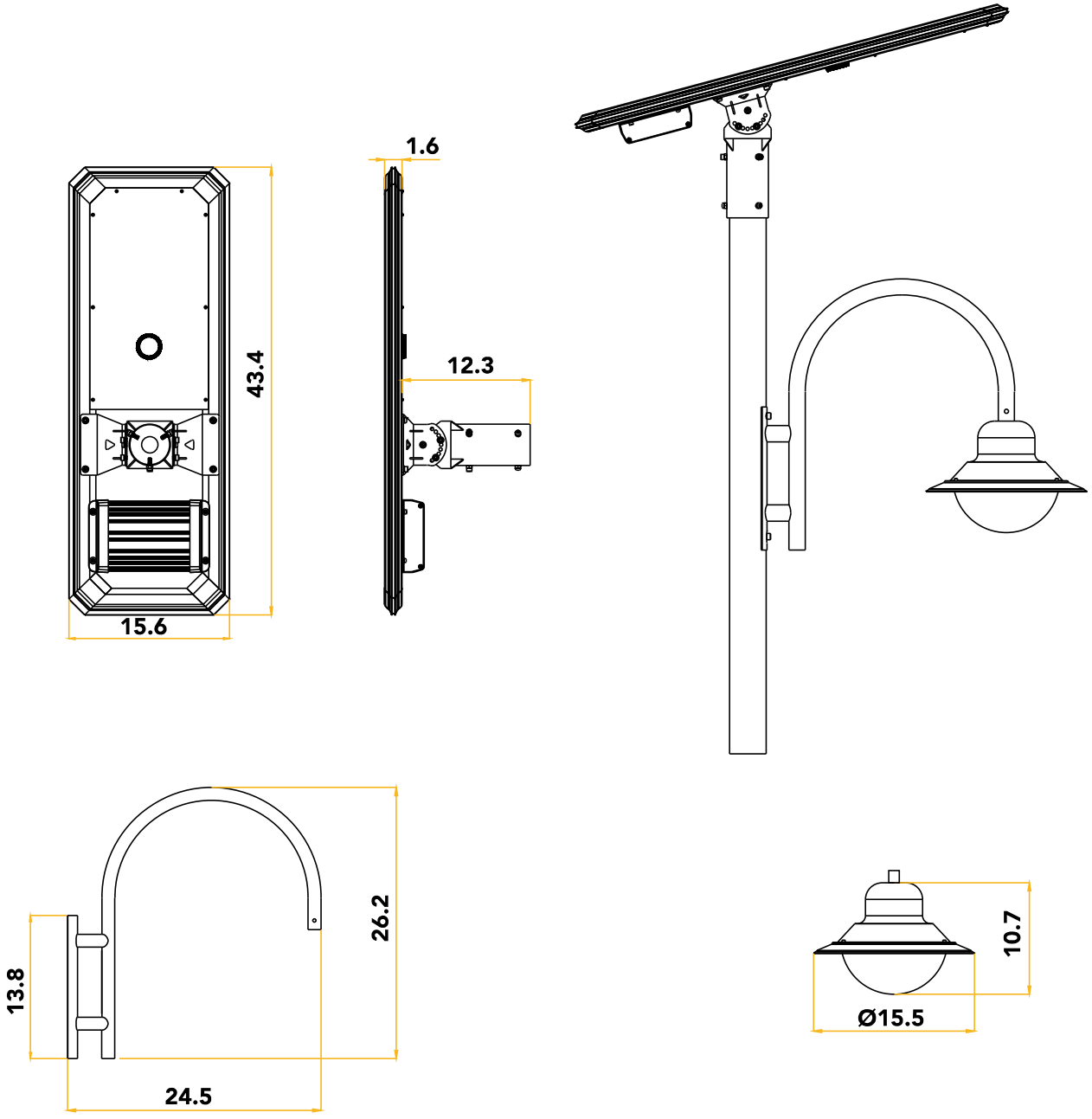
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SOLAR PATHWAY LIGHT

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Dimensions
20W



*All Dimensions Are In Inches

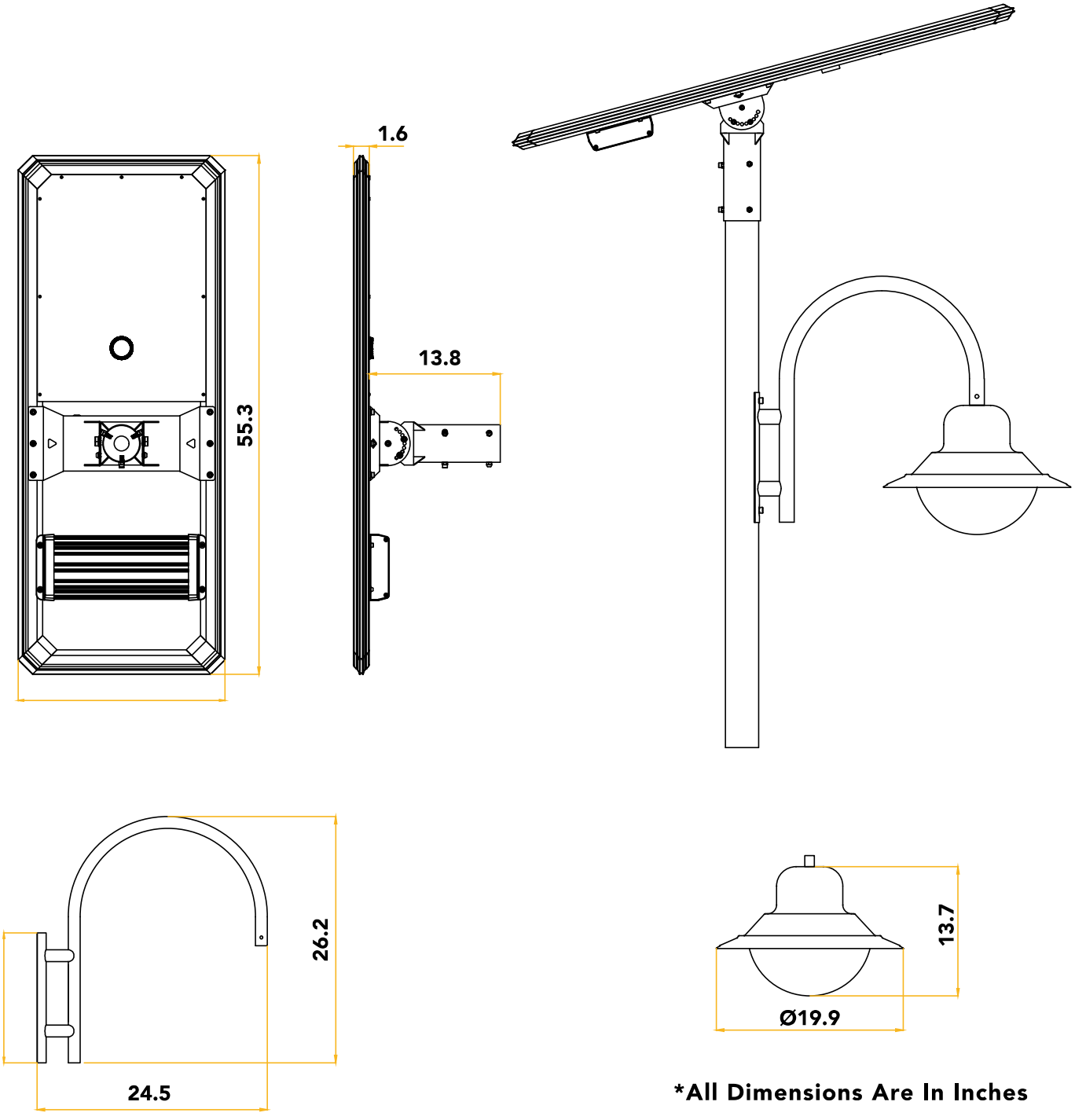
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CAPE™
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Dimensions
40W



*All Dimensions Are In Inches

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