

VERTICALIS

SOLAR AREA LUMINAIRE

VERTICALIS combines vertically integrated solar technology with dependable LED performance in a clean architectural form. Designed for grid-independent outdoor lighting, it delivers reliable illumination while supporting consistent solar energy capture.



DarkSky Approved
 Commercial Luminaire

Dark Sky Approved — exclusions apply.
 Refer to the Dark Sky order code on page 2.



LIGHT SOURCE

Source	LED
CCT	3000K standard
Lumen Output	1,100 Lm – 12,900 Lm*. Refer to page 5 *Higher lumen output available with added solar panels and luminaire height
Efficiency	180 lm/W / 200 mAh
Power	Max 60 Watts (higher wattage available upon request)
L80 Life	>100,000 hours
Rating	IP67

SOLAR MODULE

Solar Module	Monocrystalline silicon cells, processed by Photinus
Efficiency	18.9%
Max Performance Pmpp	160 Wp* / 4 solar modules & 320 Wp* / 8 solar modules modules also charge in cloudy conditions

*Wp = Watt Peak: maximum power output under standard conditions

BATTERY

Battery	LiFePO4 / 538 Wh (12.8V 42Ah) or 2 x 42 Ah / 1075 Wh
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Battery Life	>10 years
Protection Class	IPX8

GENERAL

Material	Steel pole and aluminum parts
Impact Resistance	IK06
Finish	Galvanized and powder coat
Wind Load	115 mph (185 km/h). 180 mph (290 km/h) upon request.
Salt Spray Test	ISO 9227:2012
Warranty	5 Years
Certification and Listing	Dark Sky Approved – Exclusions apply, refer to page 2 for approved options. ETL Listing pending — Intertek, to ANSI/CAN/UL 8801

ORDER CODE — DARK SKY APPROVED



VERTICALIS-DS is ordered under its own model code.
Every combination of the options below is Dark Sky Approved — specify any of them freely.

MODEL	HEAD	CCT	LUMEN OUTPUT	OPTIC	TIME MANAGEMENT
VERTICALIS-DS	S	30	LL	PATH AND STREET	V5 Standard Setting
	Single	Standard 3000K	1100 Lumens with V5 standard management setting	T2	V3
	D Dual	18 1800K*		T2L	Continuous lighting 100%
		22 2200K*	ML	T3	V3M
		27 2700K*	2000 Lumens with V5 standard management setting	DWC	Light-on-Demand, requires PIR/PILG option
		AB Amber*		DWCSCSCL	
		*upon request	xL	BIKE PATH	V4
			Specify Lumen Output* x = output in Lumens	SCL	Night-time reduction to 40%
			*Factory will determine the number of solar panels and pole height necessary to meet the requested lumen output.	AREA	For other time management options, consult factory.
				ME PLACE	
				T4B	
				VSM	
				CROSSWALK	
				PXL	
				PXR	

WIND LOAD	MOUNTING	FINISH	OPTIONS	LOCATION
W115 115 mph	PF Pipe Foundation	D Dark	00 None	ADDRESS
W180 180 mph*	ABO		AGS Anti Glare Shield	Provide Full Address of Installation
*upon request	Anchor Base with Opening		PIR Sensor	
			PILG	
			all in one E-safe Hub Sensor	
			MGP Marine Grade Primer	

SPECIFY YOUR CODE — example values shown in grey

VERTICALIS-DS

MODEL

HEAD

S

CCT

30

LUMEN

LL

OPTIC

T2

TIME

V5

WIND

W115

MOUNT

PF

FINISH

D

OPTIONS

00

LOCATION

ADDRESS

STREET

CITY

STATE

ZIP

ORDER CODE — STANDARD

MODEL	HEAD	CCT	LUMEN OUTPUT	OPTIC	TIME MANAGEMENT
VERTICALIS	S Single D Dual	30 Standard 3000K 18 1800K* 22 2200K* 27 2700K* 40 4000K* 50 5000K* AB Amber* *upon request	LL 1100 Lumens with V5 standard management setting ML 2000 Lumens with V5 standard management setting xL Specify Lumen Output* x = output in Lumens *Factory will determine the number of solar panels and pole height necessary to meet the requested lumen output.	PATH AND STREET T2 T2L T3 DWC DWCSCl BIKE PATH T3L SCL AREA ME PLACE T4B VSM CROSSWALK PXL PXR	V5 Standard Setting V0 No Time Management V3 Continuous lighting 100% V3M Light-on-Demand, requires PIR/PILG option V4 Night-time reduction to 40% For other time management options, consult factory.

WIND LOAD	MOUNTING	FINISH	OPTIONS	LOCATION
W115 115 mph W180 180 mph* *upon request	PF Pipe Foundation ABO Anchor Base with Opening	D Dark	00 None AGS Anti Glare Shield PIR Sensor PILG all in one E-safe Hub Sensor MGP Marine Grade Primer	ADDRESS Provide Full Address of Installation

SPECIFY YOUR CODE — example values shown in grey

VERTICALIS

MODEL

HEAD

S

CCT

30

LUMEN

LL

OPTIC

T2

TIME

V5

WIND

W115

MOUNT

PF

FINISH

D

OPTIONS

00

LOCATION

ADDRESS

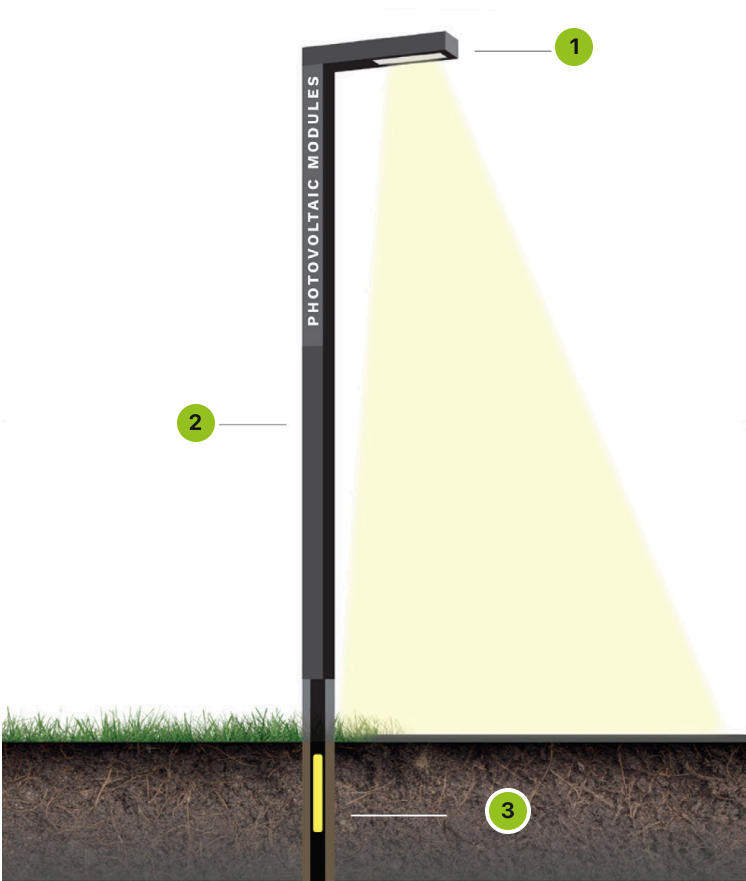
STREET

CITY

STATE

ZIP

OVERVIEW



- 1 Luminaire featuring an IP67-rated LED module, plug-and-play connectors, and an intelligent battery and power management system
- 2 Galvanised steel pole with a polyester powder-coated aluminum structure
- 3 Battery embedded in the ground, providing improved thermal management for a longer lifespan and added protection against theft

DETAILS



High quality finish with perfect integration of vertical photovoltaic panels.



Easy installation with only 3 main components to mount and connect — pole, battery and luminaire.



Waterproof components — LED module, power supply and cabling, make the luminaire lightweight and easy to install.



The IPX8 LiFePO4 battery offers superior water resistance and reliable performance.



Toolless, coded connectors for all connections ensure quick, secure, and error-free installation and maintenance.

STANDARD LUMEN OUTPUT

ALL VALUES AT 180 LM/W

For information purposes only. Higher lumen output available upon request. Final luminaire settings are contingent upon install location and desired lumen output. Less direct solar intake may require a higher pole with additional solar panels. The required number of solar panels will be determined by the manufacturer to accommodate the necessary solar intake and achieve the desired lumen output for each specific project.

SEATTLE, WA latitude 47.608013

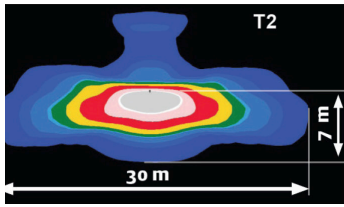
MODEL	HEAD	TIME MGMT	WATTAGE	EST. LUMEN OUTPUT
VERTICALIS (150+) 4 solar panels	Single Head	V5	9.6 W	1744 Lm
		V3M	16.5 W	2972 Lm
		V4	6.3 W	1142 Lm
	Dual Head	V5	9.6 W	1744 Lm
		V3M	16.5 W	2972 Lm
		V4	6.3 W	1142 Lm
	Single Head	V5	11.3 W	2048 Lm
		V3M	21.7 W	3907 Lm
		V4	9.6 W	1744 Lm
	Dual Head	V5	11.3 W	2048 Lm
		V3M	21.7 W	3907 Lm
		V4	9.6 W	1744 Lm

PALM SPRINGS, CA latitude 33.830517

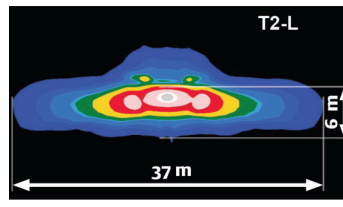
MODEL	HEAD	TIME MGMT	WATTAGE	EST. LUMEN OUTPUT
VERTICALIS (150) 4 solar panels	Single Head	V5	19.9 W	3594 Lm
		V3M	39.3 W	7080 Lm
		V4	14.7 W	2663 Lm
	Dual Head	V5	19.9 W	3594 Lm
		V3M	39.3 W	7080 Lm
		V4	14.7 W	2663 Lm
	Single Head	V5	37.5 W	6759 Lm
		V3M	71.7 W	12922 Lm
		V4	28.7 W	5167 Lm
	Dual Head	V5	37.5 W	6759 Lm
		V3M	71.7 W	12922 Lm
		V4	28.7 W	5167 Lm

PHOTOMETRICS

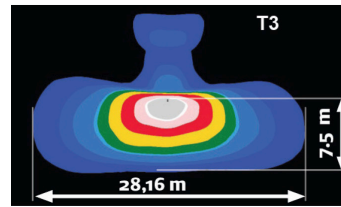
PATH AND STREET OPTICS



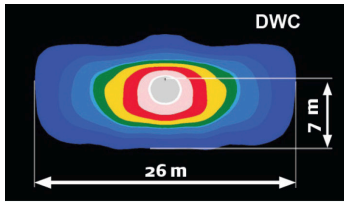
T2 B1-U0-G1



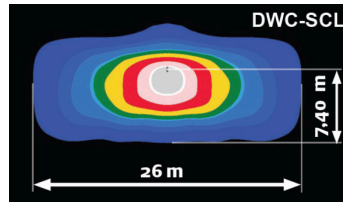
T2-L B1-U0-G1



T3 B1-U0-G1

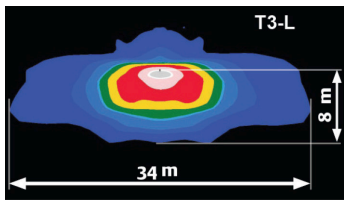


DWC B1-U0-G1

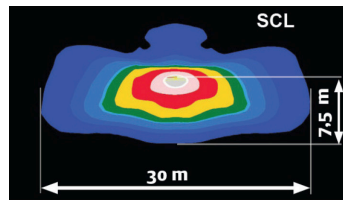


DWC-SCL B1-U0-G1

BIKE PATH AND SMALL ROAD OPTICS

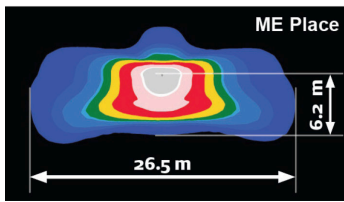


T3-L B1-U0-G1

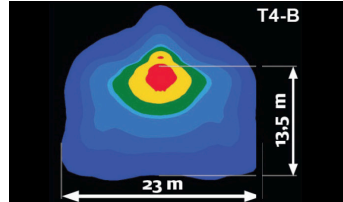


SCL B1-U0-G1

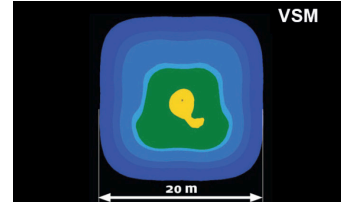
AREA OPTICS



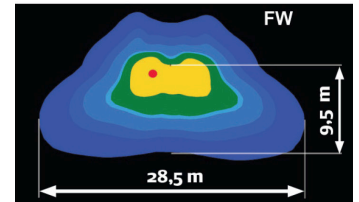
ME PLACE B1-U0-G1



T4-B B1-U0-G1

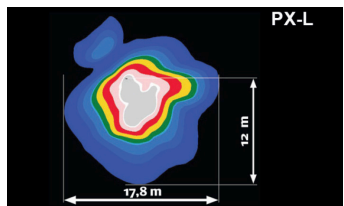


VSM B2-U1-G1

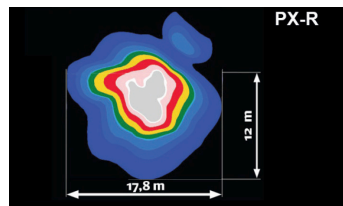


FW B1-U0-G1

CROSSWALK OPTICS



PX-L B1-U1-G1



PX-R B1-U1-G1

DIMMING / TIME MANAGEMENT



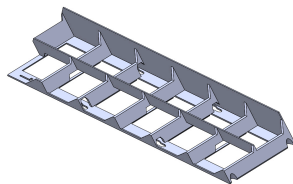
OPTIONS

PIR / PILG Sensor / all in one E-safe Hub Sensor

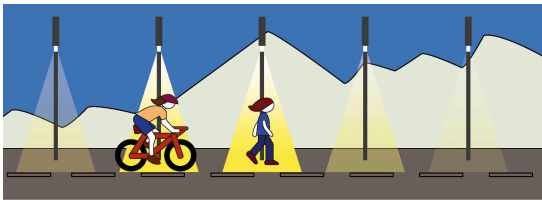
Each luminaire can be equipped with a PIR sensor for stand-alone or networked light-on-demand control. One GPS-equipped luminaire enables real-time communication across the system, allowing fixtures to adjust output based on activity for improved efficiency, reduced light pollution, and dependable illumination when needed.

MGP Marine Grade Primer — additional corrosion protection for coastal and high-salt environments.

AGS Anti-Glare Shield



Images for information purposes only. Shields will vary according to luminaire requirements.



FINISH

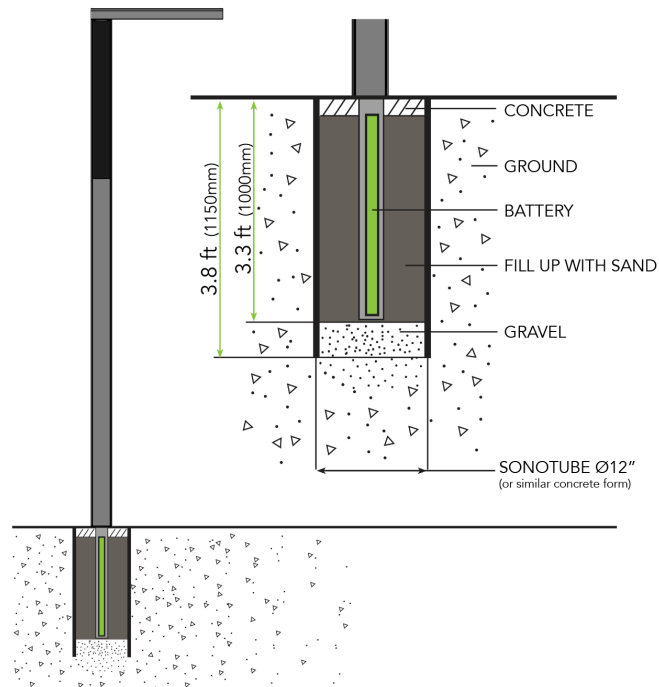


D Sparkling Iron Effect Dark

Tiger 29/70787
Powder Coat

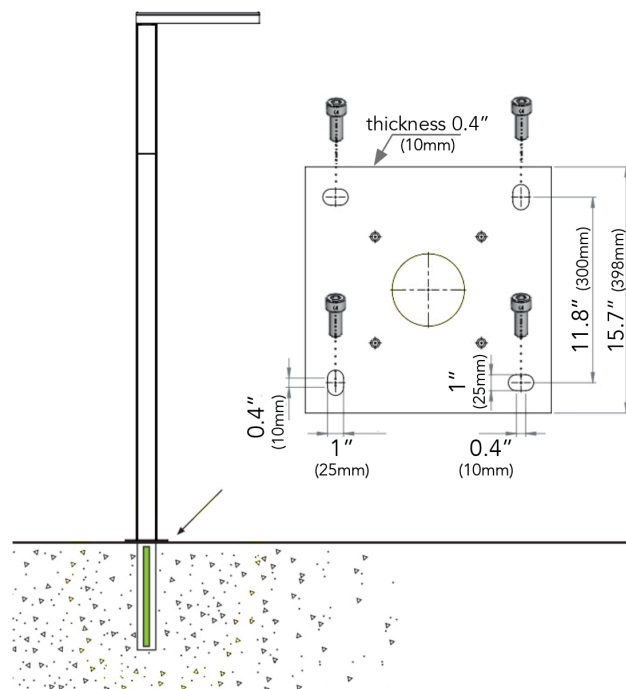
MOUNTING I — PIPE FOUNDATION

PF Pipe Foundation — battery placed underground.



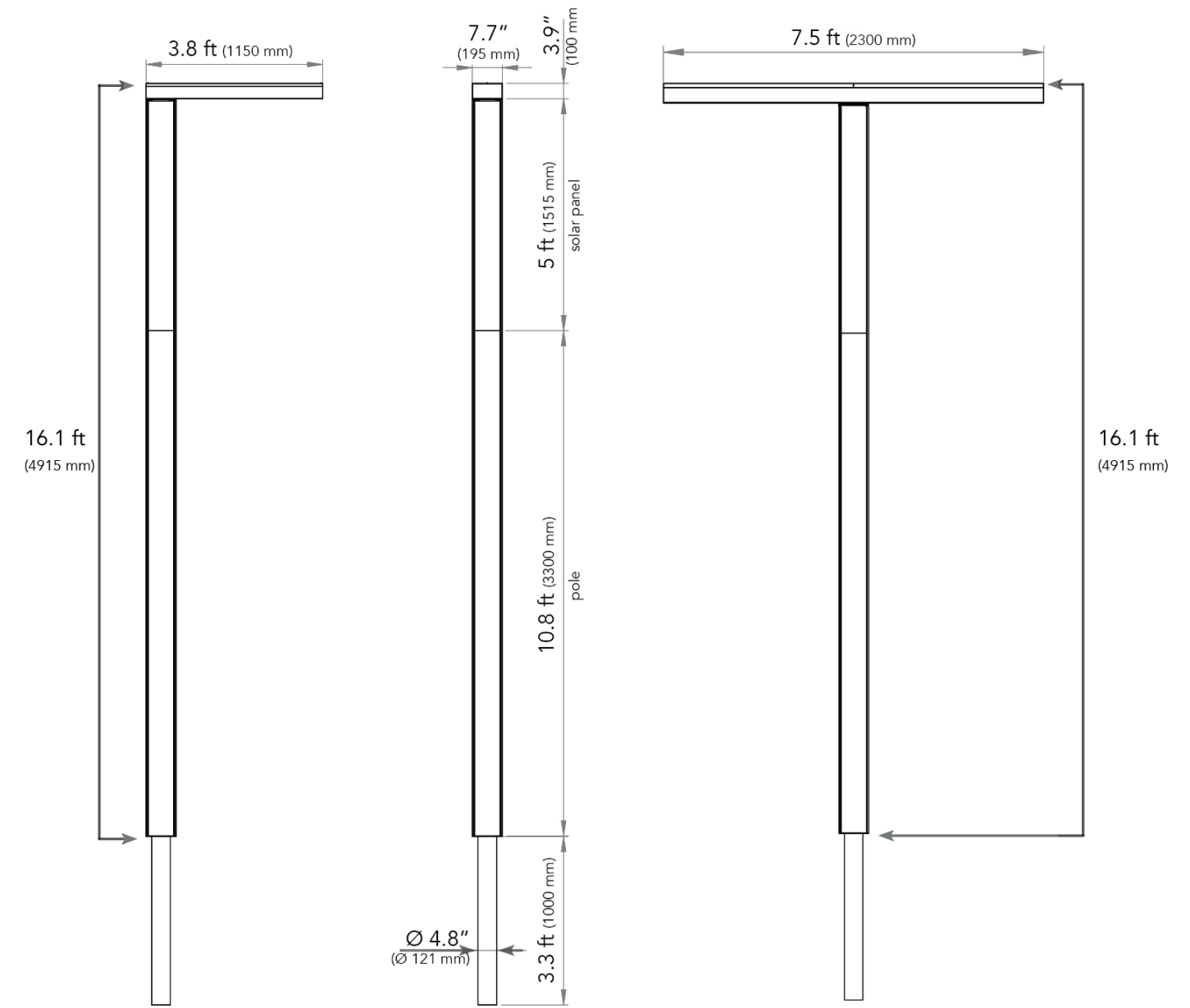
MOUNTING II — ANCHOR BASE

ABO Anchor Base with Opening — battery placed underground.



DIMENSIONS — VERTICALIS STANDARD

S Single Head — front and side D Dual Head — right



For information purposes only. The number of solar panels needed will be determined by the manufacturer to suit the solar intake necessary for each project. Final luminaire height dependent on install location and desired lumen output. Less direct solar intake may require higher pole and/or more solar panels. Custom heights available. Drawings provided upon request.