

# MERKUR

## SOLAR OUTDOOR LIGHTING

### PROJECT NAME

Type \_\_\_\_\_ Date \_\_\_\_\_

### SPECIFICATIONS



<b>Source</b>	LED
<b>CCT</b>	3000K standard
<b>Lumen Output</b>	845 Lm – 12,900 Lm*. Refer to page 2 <i>*Higher lumen output available with added solar panels and luminaire height.</i>
<b>Efficiency</b>	200lm/W at 600mAh
<b>Power</b>	Max 100W
<b>L80 Life</b>	> 75,000 hours
<b>Location</b>	Listed IP67
<b>Solar Module</b>	Monocrystalline silicon cells, processed by Photinus
<b>Efficiency</b>	20%
<b>Max Performance P<sub>mpp</sub></b>	150 Wp* / 4 solar modules & 300 Wp* / 8 solar modules <i>modules also charge in cloudy conditions</i> <i>*Wp = Watt Peak: maximum power output under standard conditions</i>
<b>Protection Class</b>	IK06
<b>Battery</b>	LiFeP04 / 474 Wh (12.8 V 37Ah)
<b>Operating Temperature</b>	-4°F to 140°F (-20°C to 60°C) [-40°F/-40°C available upon request]* <i>*Lower/Higher operating temperatures available upon request.</i>
<b>Battery Life</b>	Up to 10 years
<b>Protection Class</b>	IPX8
<b>Material</b>	Steel pole and aluminum parts
<b>Finish</b>	Galvanized and powder coat
<b>Weight</b>	242.5 lb. [110kg]
<b>Wind Load</b>	68.3 mph, 90 mph on request ( <i>higher wind loads available upon request</i> )
<b>Salt Spray Test</b>	ISO 9227:2012
<b>Warranty</b>	3 Years

### ORDER CODE

Model	Type	Head	C.C.T.	Lumen Output	Optic	Time Management	Wind Load	Mounting	Finish	Options	Location
<b>MERKUR</b>	<b>SOL</b> = Solar <b>HYB</b> = Hybrid Solar & Power Grid <b>POW</b> = Power Grid, no solar panels	<b>S</b> = Single <b>D</b> = Dual	<b>30</b> = Standard 3000K <b>20</b> = 2000K <b>40</b> = 4000K <b>50</b> = 5000K <b>AB</b> = Amber	<b>LL</b> = 1100 Lumens with V5 standard management setting <b>ML</b> = 2000 Lumens with V5 standard management setting <b>[X] L</b> = Specify Lumen Output*  *Factory will determine the number of solar panels and pole height necessary to meet the requested lumen output.	<b>ME PLACE</b> <b>T2</b> <b>T2-B</b> <b>T2-L</b> <b>T3</b> <b>T3-B</b> <b>T3-L</b> <b>T4-B</b> <b>DWC</b> <b>SCL</b> <b>DWCSCS</b> <b>FW</b> <b>VM</b> <b>PX</b>	<b>V0</b> = No Time Management <b>V3</b> = Continuous lighting 100% <b>V3M</b> = Light-on-Demand, <b>requires PIR/PILG option</b> , reduction to 10% and activated at 100% when triggered <b>V4</b> = Night-time reduction to 40% <b>V5</b> = Standard Setting <b>V6</b> = Night-time reduction to 0%  Other time management options available upon request	<b>W68</b> = Standard 68.3 mph <b>W90</b> = 90 mph* <b>W [XX]</b> = Specify desired wind load*  * Consult factory. Other wind loads available upon request.	<b>PF</b> = Pipe Foundation <b>ABO</b> = Anchor Base with Opening* <b>ABC</b> = Anchor Base Closed*  *ABO/ABC surface mount available upon request. Consult factory.	<b>D</b> = Dark	<b>00</b> = None <b>AGS</b> = Anti Glare Shield <b>PIR/PILG</b> = Sensor <b>MGP</b> = Marine Grade Primer	<b>ADDRESS</b> = Provide Full Address of Installation

Example order code: **MERKUR – SOL – S – 30 – LL – DWCSCL – V5 – W90 – PF – D – 00 – JOHN ROSS PKWY, PMB 29, ROCK HILL, SC 29730**

### STANDARD LUMEN OUTPUT

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	Estimated Lumen Output	Time Management	Wattage	Lumens/Watt
<b>MERKUR</b> (150+) 4 solar panels	Single Head	1744 Lm	V5 = Standard Setting	9.6910 W	180 Lm/W
		2972 Lm	V3M = reduction to 10% and activated at 100%	16.5127 W	
		1142 Lm	V4 = Night-time reduction to 40%	6.3460 W	
	Dual Head	1744 Lm	V5 = Standard Setting	9.6910 W	
		2972 Lm	V3M = reduction to 10% and activated at 100%	16.5127 W	
		1142 Lm	V4 = Night-time reduction to 40%	6.3460 W	

<b>MERKUR</b> (300) 8 solar panels	Single Head	2048 Lm	V5 = Standard Setting	11.3824 W	180 Lm/W
		3907 Lm	V3M = reduction to 10% and activated at 100%	21.7076 W	
		1744 Lm	V4 = Night-time reduction to 40%	9.6910 W	
	Dual Head	2048 Lm	V5 = Standard Setting	11.3824 W	
		3907 Lm	V3M = reduction to 10% and activated at 100%	21.7076 W	
		1744 Lm	V4 = Night-time reduction to 40%	9.6910 W	

#### PALM SPRINGS, CA — latitude 33.830517

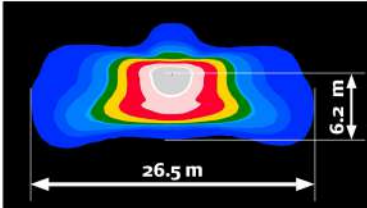
Model	Head	Estimated Lumen Output	Time Management	Wattage	Lumens/Watt
<b>MERKUR</b> (150) 4 solar panels	Single Head	3594 Lm	V5 = Standard Setting	19.9699 W	180 Lm/W
		7080 Lm	V3M = reduction to 10% and activated at 100%	39.3334 W	
		2663 Lm	V4 = Night-time reduction to 40%	14.7945 W	
	Dual Head	3594 Lm	V5 = Standard Setting	19.9699 W	
		7080 Lm	V3M = reduction to 10% and activated at 100%	39.3334 W	
		2663 Lm	V4 = Night-time reduction to 40%	14.7945 W	

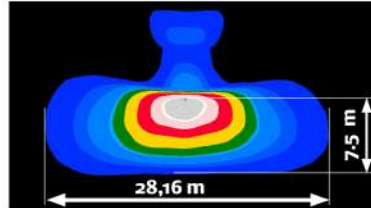
<b>MERKUR</b> (300) 8 solar panels	Single Head	6759 Lm	V5 = Standard Setting	37.5542 W	180 Lm/W
		12922 Lm	V3M = reduction to 10% and activated at 100%	71.7916 W	
		5167 Lm	V4 = Night-time reduction to 40%	28.7093 W	
	Dual Head	6759 Lm	V5 = Standard Setting	37.5542 W	
		12922 Lm	V3M = reduction to 10% and activated at 100%	71.7916 W	
		5167 Lm	V4 = Night-time reduction to 40%	28.7093 W	

## PHOTOMETRICS

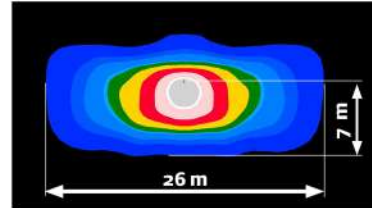
ME PLACE



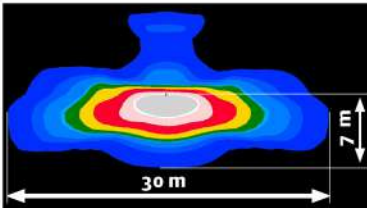
T3



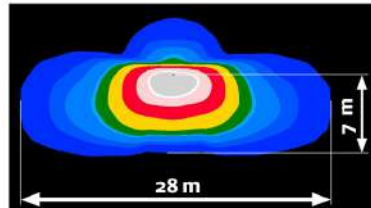
DWC



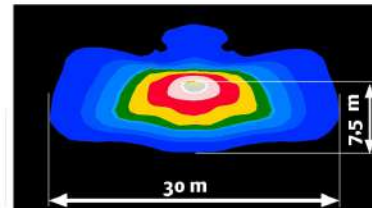
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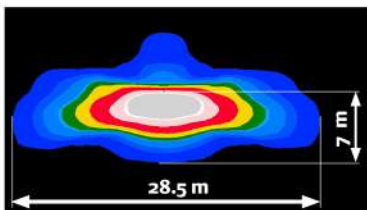
T3-B



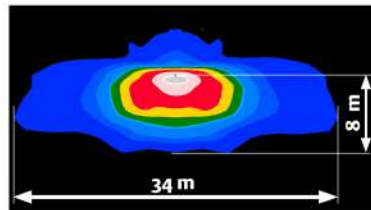
SCL



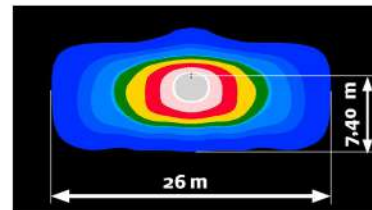
T2-B



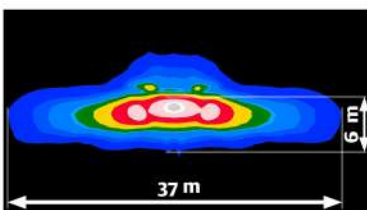
T3-L



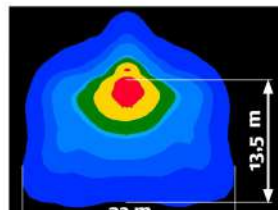
DWCSCS



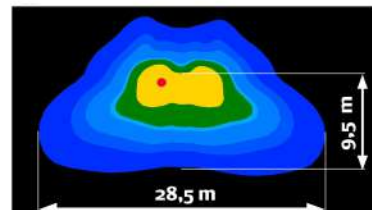
T2-L



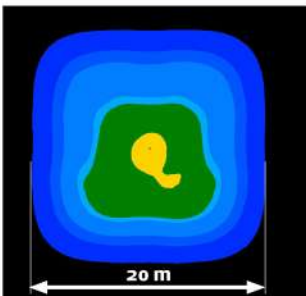
T4-B



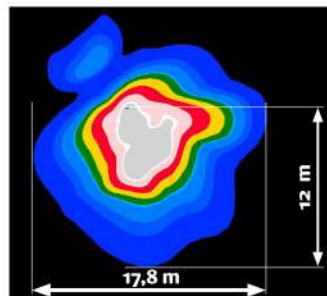
FW



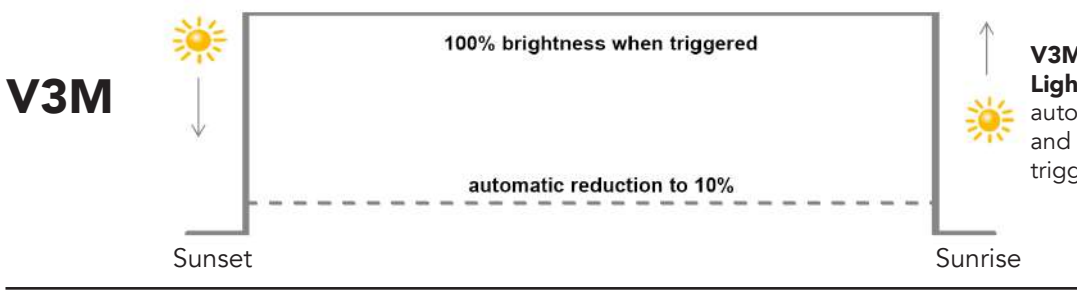
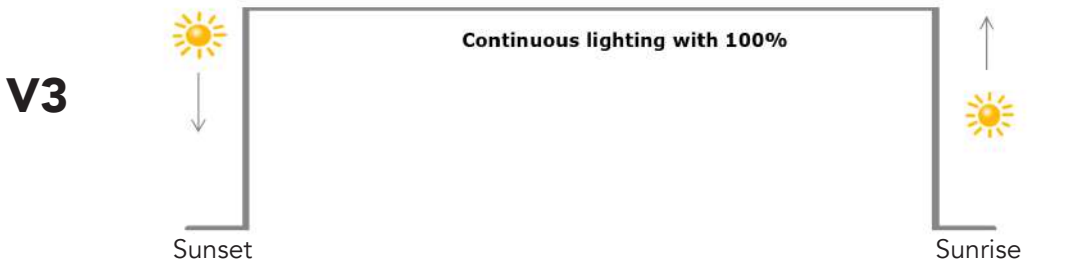
VM



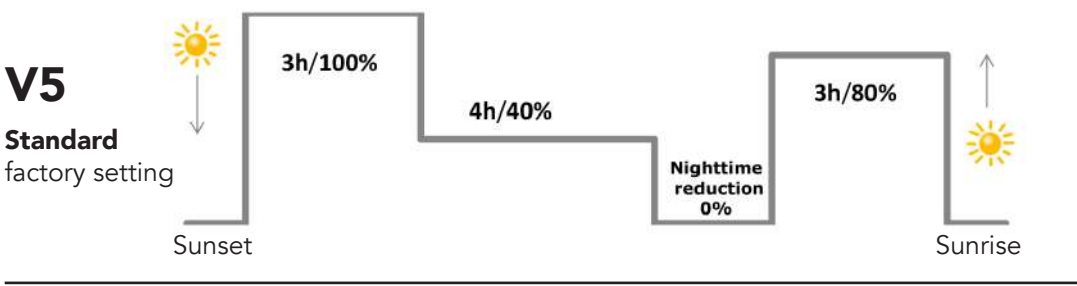
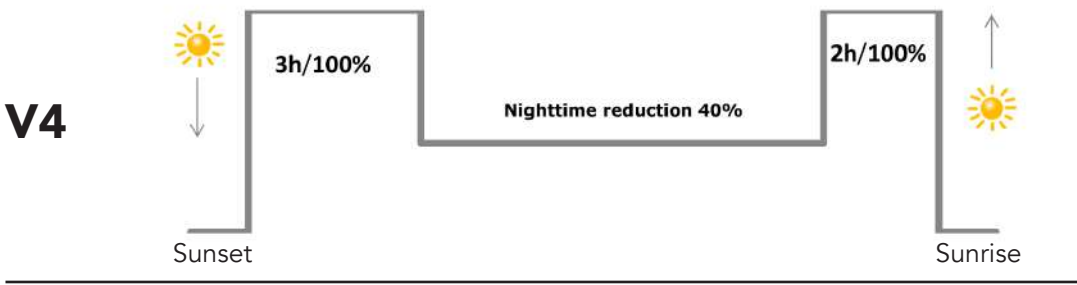
PX



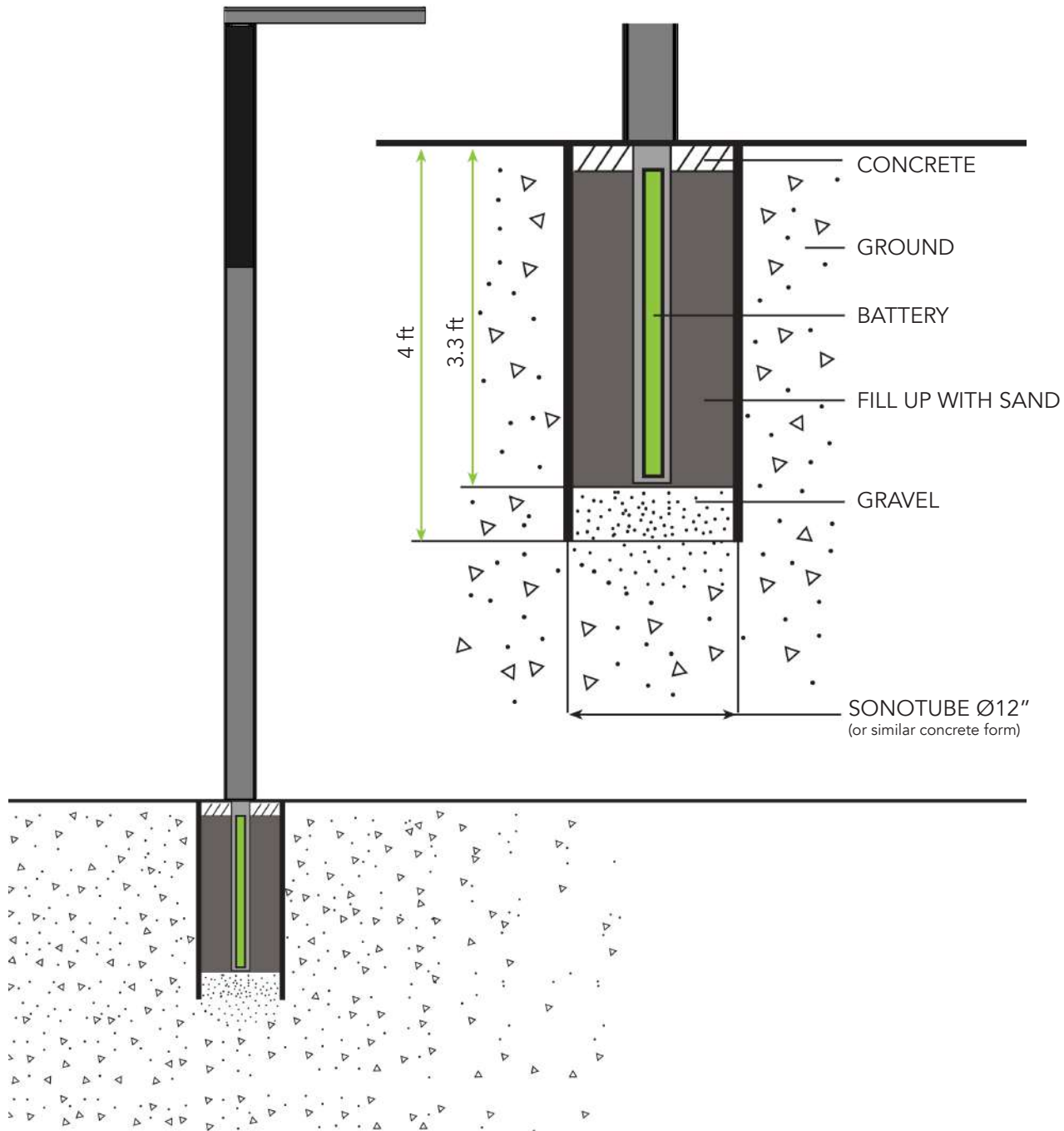
**ENERGY AND TIME MANAGEMENT**



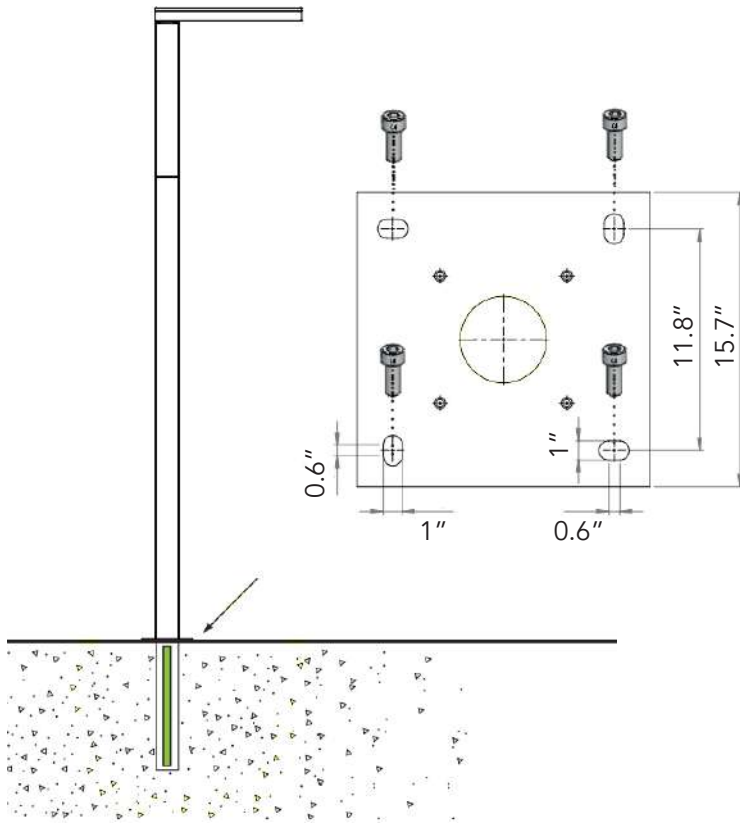
**V3M**  
**Light-on-Demand functionality**, with automatic reduction to 10% brightness and full activation at 100% when triggered. **Requires PIR/PILG sensor.**



## MOUNTING OPTION 1 — PIPE FOUNDATION — PF

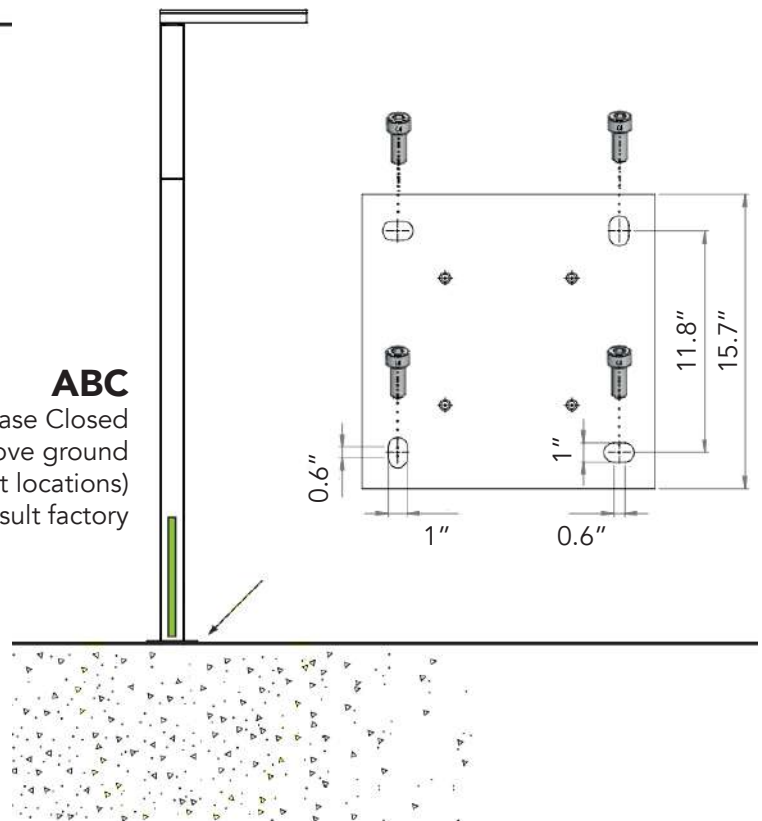


**MOUNTING OPTION 2 — ANCHOR BASE**



**ABO**  
Anchor Base with Opening  
Battery placed underground  
\*Consult factory

**ABC**  
Anchor Base Closed  
Battery placed above ground  
(not viable for very cold or very hot locations)  
\*Consult factory



## FINISH

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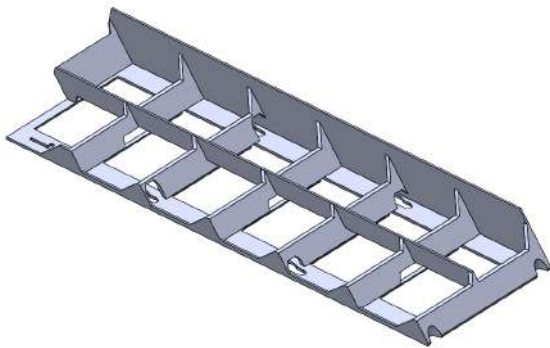
**D**  
Sparkling Iron Effect Dark  
Tiger 29/70787  
Powder Coat

## OPTIONS

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### AGS

Anti-Glare Shield



### PIR

Each luminaire can be fitted with a PIR-sensor, a controller and an antenna. To control the luminaire in real time, only one luminaire has a GPS-controller as well as a GPS-antenna. This enables the luminaires to communicate among each other and control the demand responsive light in real time.



### DIMENSIONS — MERKUR STANDARD

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 with more solar panels. Custom heights available. Drawings provided upon request.

