

## TIRAS SOLAR POST-TOP

Our **Solar Post-Top's sleek design** is the perfect solution for Urban lighting. It meets a wide range of application needs from pathways, parks to compounds and so on as well as blends harmoniously into a wide variety of architectural contexts. Engineered to perform like conventional post top lighting, Solux Solar Post-Tops feature high-performing LEDs fueled by Solar energy.

NOMINAL POWER	14 WATTS
LIGHTING	
	196 Lumens/Watts
•	Over 80 000 hours LM80
	From 98,43" to 196,85" (From 2.5 to 5) Meters
BATTERY	THE RESERVE
0,7	Lithium Iron Phosphate LIFEPO4
•	Over 24 hours at full charge - 4 Rainy Days back up
0 0	
•	er 3000 CYCLES @ 80% DOD over 10 years Lifetime
Working temp14°F to 158°I	F (optional -40°F to 158°F) -10°C to 70 °C - (optional -40°C TO 70 °C)
ENERGY	
'	33 Watts /18V
, ,	Monocrystaline Panel Grade A 25 years
	IEC 61215 - IEC 61730 I and II - IEC 60904
ELECTRONIC	
Controller	MPPT SMART CONTROLLER
Sensor	Microwave 360° Motion Sensor
Cabling	Waterproof Connector, Plug and Play
Protection	Battery Management System (BMS)
MECHANICAL	
Pole mounting	3,00" (76 mm)
Material	Aluminium and Stainless Steel
DIMENSIONS	
	D 21,06" x 15,35"(D 535 mm x H 390mm)
	22,83" x 22,83" x 17,00" (580mm x 580mm x 430mm
	16,10 lb(7.3 KG)
ě .	
Qty /Ctn 20"/40"	









Solux retains the right to modify or change product specifications without prior notice, as part of our ongoing commitment to improvement

**Pathways** 



#### CERTIFICATIONS

IEC / TUV / EMC / LM-79- 08 and LM-80 test standards / IK8 / IP65 / CE / ULOR



\* Solux offers a 5 Year Limited Warranty for the Post Top-Series luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers all components when installed and operated according to Solux instructions. Fixture suitable for ambient temperature from -10° to 50°. PV Panels - 20 year performance warranty Controller & Batteries: 5 years

TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 1 of 7



991 South Gull Lake Dr Richland, MI 49083 USA



# LUMINAIRE HOUSING & LEDS

## 2744 LUMENS - 2300 TO 6500 K

High pressure die-cast low-copper aluminum. **Protection class** (IP65). Solux uses a high quality Polyester Powder Coating from **AKZO NOBEL.** This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for color retention for this product.

Our Luminaire is equipped with PHILIPS LUXEON HE PLUS High efficiency Chips offering and overall 196 Lumens per Watt efficacy.

Our luminaire also complies with the **DARK SKY** requirement for light pollution with an **Upward lighting of 0,71%** .



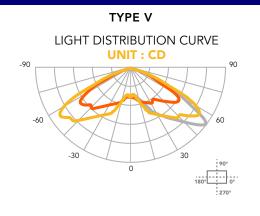


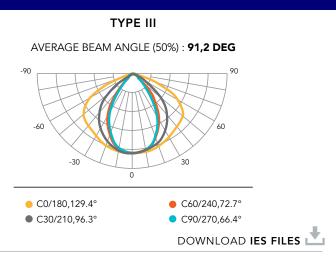
### **DIFFERENT OPTICS\***

Our different optics will allow you to optimize the lighting results of your projects



## LIGHT DISTRIBUTION CUR VES





TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 2 of 7



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## BATTERY LIFEPO4

#### + OVER 10 YEARS LIFETIME

The **POST-TOP** Series is equiped with **Iron Phosphate Lithium LiFePo4** battery. This technology is proved to be the best chemical technology for solar application on the market.

With a cycle life of over 3000 Cycles @ 80% DOD, the battery enjoys over 10 years lifetime.

## EXTREME TEMPERATURE

14°F to 158°F ( - 40 °F OPTIONAL) -10 °C TO 70 °C ( -40 °C OPTIONAL)





## BMS ELECTRONIC PROTECTION BATTERY MANAGEMENT SYSTEM

Our batteries are equipped with **electronic circuit boards for a higher protection**, ensuring battery functioning optimization no matter the situation.



• OVER/UNDER CURRENT • OVERLOAD • OVER/UNDER VOLTAGE • OVER/UNDER CHARGE • TEMPERATURE MANAGEMENT

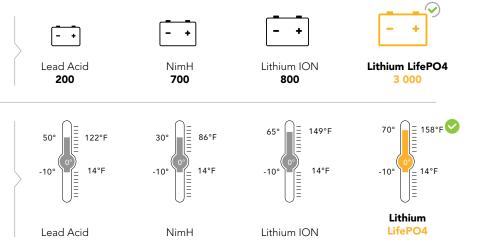
#### COMPARISONS OF DIFFERENT BATTERY TECHNOLOGIES

## LIFETIME & CYCLES AT 80% DOD\*

Comparison of different battery technologies

CHARGING TEMPERATURE RANGE WITHOUT CAPACITY LOSS

Minimum & Maximum temperature range for Optimal charing during the day



TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 3 of 7



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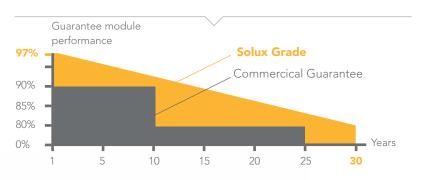
## SOLAR PANEL

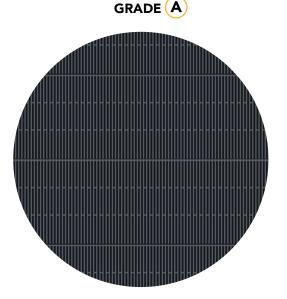
### 33 WATTS

High efficiency mono-crystalline **Solar panels**. Carefully selected **Grade A** Solar cells. Up to 20.4% efficiency, all protected by self-cleaning **tempered glass at 30 degrees** of inclination.

They are also equipped with fully waterproof Plug and Play connectors for easy maintenance.

#### OUR PV PERFORMANCE GUARANTEE





solar cells

## CONTROLLER MPPT



In a search for performance and reliability, our products are equipped with MPPT technology controller offering the best charging efficiency on the market up to 98%

#### REMOTE CONTROL MONITORING

In order to facilitate all maintenance operations and above all to diagnose any possible problem, without having to intervene mechanically on the luminaire, Solux luminaires are equipped with a wireless diagnostic system via remote control



With a simple click it is possible to have real-time information such as:

- Automatic diagnosis in case of malfunction
- State of charge and battery history
- Real Time load and solar panel energy production history
- Age of the product and installation
- Temperature and its history

## FEATURES

- Minimal stand-by power consumption
- Current consumption ≤ 10mA
- Intelligent battery management3 Phases charging:
  - Charge MPPTT
  - Constant voltage
  - Floating voltage
- Intelligent LED driver Auto detecting of Dusk and Dawn for automatic operation, 7 Lighting Programs Configuration.
- ANTI BLACK OUT: Load adjust according to battery capacity assuring all night long lighting in any weather conditions.
- The controller also acts against:
  - OVERLOAD
  - OVERCURRENT
  - OVERTEMPERATURE
  - OVERVOLTAGE / OVERLOAD
  - OVERDISCHARGE

TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 4 of 7



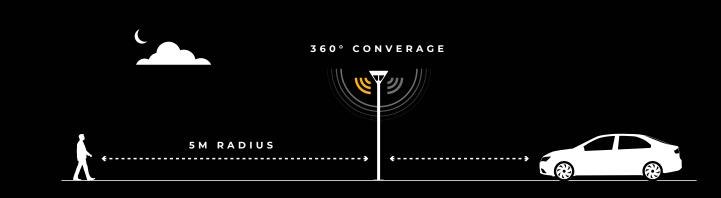
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# MOTION SENSOR MICROWAVE

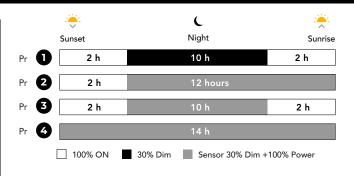
Our Solar Post-Top comes with microwave motion sensors that detect pedestrians, cyclists and vehicles.

The light level increases as they pass to ensure safety and security while respecting the environment



# OPERATION MODE & LIGHTING SCHEDULE

In addition to automatic switching on and off , you have the possibility of choosing among **different modular operating modes** according to the needs of the project.



CONTACT US FOR MORE PROGRAM OPTIONS

## EASY INSTALLATION

# NO CABLING NO TRENCHING

No cabling or teaching is required, **Easy to install. Insert on pole and switch ON.** 



TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 5 of 7

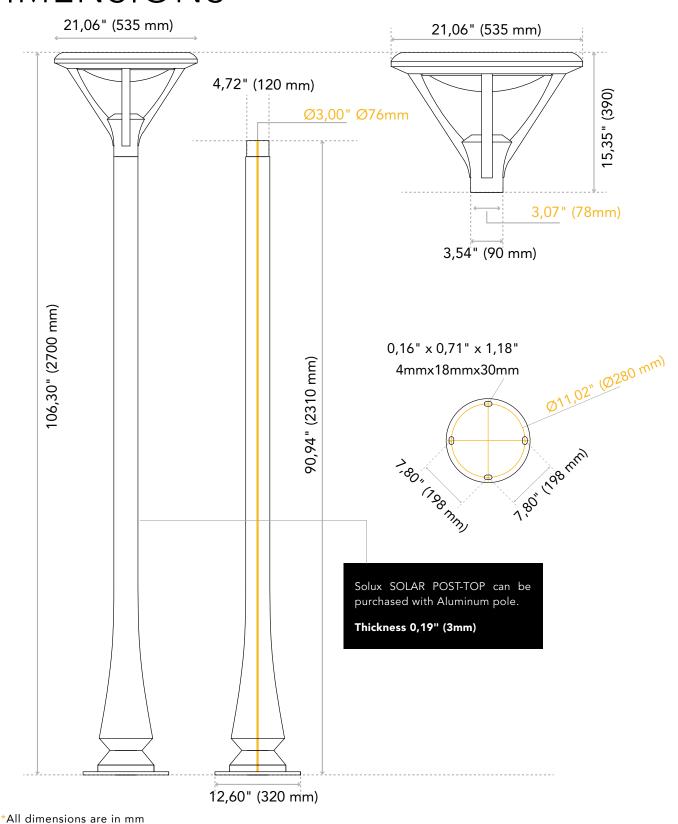


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## **DIMENSIONS\***



TIRAS - SOLAR POST TOP - URBAN LIGHTING - DATA SHEET / Page 6 of 7



991 South Gull Lake Dr Richland, MI 49083