

# ZX30 SERIES

## COMMERCIAL SOLAR LED LIGHTING SYSTEM



PHILIPS  
LUMILEDS



LM-79  
LM-80

IP66  
IK08



CE CB

RoHS  
Compliant



The **ZX30** solar lighting system is the most advanced on the market. Ideal for **public parks and pathways**. It integrates a solar module, a battery, and a smart controller all paired with the latest Philips LED lighting technology in a simple and compact design. Installation is therefore easy, quick and secure.

The **ZX30** offers several operating profiles to meet different needs. Light intensity can be dimmed when full power is not required to increase operating hours. Operating profiles can be easily modified thanks to the built-in wireless communication.

### FEATURES & BENEFITS

- Weather adaptive technology;
- Automatic activation at sunset and/or before sunrise;
- Dimming options;
- 10 days autonomy without sunlight;
- Wireless communication;
- Flexible operating profiles according to your needs, modifications via remote control.
- No power cables, no trenching;
- > 100 000hrs Philips maintenance free LED operation;
- Universally recognized **common battery group sizes**, easily sourceable locally;
- Easy battery replacement access door;
- Black powder coated aluminum housing;
- Quick, easy and safe installation.

### APPLICATIONS

- Public parks;
- Walking paths;
- Bicycle paths;
- Boardwalks;
- Bus shelters;
- Community Mailboxes;
- Remote areas.



### MANUFACTURED BY:

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LICENSED FOR  
CANADIAN WINTERS

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| LIGHTING SPECIFICATIONS                    | zX30 Solar Lighting System                                                                                                                                                                                                                                               |        |        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Philips Lumileds lumen/Watt                | 175lm/W                                                                                                                                                                                                                                                                  |        |        |
| Luminaire Power (Watt)                     | 6 W                                                                                                                                                                                                                                                                      | 4 W    | 2.5 W  |
| Lumens (lm)                                | 1050 lm                                                                                                                                                                                                                                                                  | 700 lm | 438 lm |
| Dimming / Programmable                     | Yes, see “Operating Profile” document for details.                                                                                                                                                                                                                       |        |        |
| Light Distribution Type                    | 2M, 3M and 5S                                                                                                                                                                                                                                                            |        |        |
| Color temperature (°K)                     | 4000°K, 3000°K, 2200°K or 590nm (Turtle-Friendly Lighting)                                                                                                                                                                                                               |        |        |
| CRI (Color Rendering Index)                | 70                                                                                                                                                                                                                                                                       |        |        |
| LED Lifespan                               | > 100 000 hours                                                                                                                                                                                                                                                          |        |        |
| Recommended mounting height ft (M)         | 8 to 14t (2,5 to 4,25 meters)                                                                                                                                                                                                                                            |        |        |
| Recommended spacing factor                 | 6 x Mounting Height                                                                                                                                                                                                                                                      |        |        |
| Operation                                  | Hours of operation can be divided between evening and morning (before sunrise). The light intensity can also be dimmed. Operating profiles can be modified via remote control, sold separately.                                                                          |        |        |
| SOLAR SYSTEM SPECIFICATIONS                |                                                                                                                                                                                                                                                                          |        |        |
| Solar Module Power (Watt)                  | 40 W                                                                                                                                                                                                                                                                     |        |        |
| Battery Bank Capacity (Ah)                 | 24Ah @12Vdc (288Wh)                                                                                                                                                                                                                                                      |        |        |
| Battery type                               | Deep Discharge <b>AGM, GEL</b>                                                                                                                                                                                                                                           |        |        |
| Battery Overcharge/Discharge protection    | YES                                                                                                                                                                                                                                                                      |        |        |
| Autonomy (number of days without sunlight) | 10 days, with the “weather adaptive technology” and a fully charged battery                                                                                                                                                                                              |        |        |
| Operating temperature range                | -40°C +60°C                                                                                                                                                                                                                                                              |        |        |
| MECHANICAL SPECIFICATIONS                  |                                                                                                                                                                                                                                                                          |        |        |
| Solar System mounting                      | Top of pole, Pole maximum outer diameter: <b>4” (102mm), Square or Round</b> , (pole not included)                                                                                                                                                                       |        |        |
| Luminaire mounting                         | Horizontal tenon, <b>2-3/8”Ø dia.</b> (included)                                                                                                                                                                                                                         |        |        |
| Unit Weight - lb (Kg) (EPA)                | 48lb (21.8 Kg) (EPA = 2.7ft²) including the luminaire                                                                                                                                                                                                                    |        |        |
| WARRANTY & CERTIFICATIONS                  |                                                                                                                                                                                                                                                                          |        |        |
| Warranty                                   | Solar Module: <b>25 years</b><br>Controller: <b>10 years</b><br>Batterie: <b>5 years (prorata)</b><br>Light fixture : <b>10 years</b>                                                                                                                                    |        |        |
| Certifications                             | <b>Light fixture</b> : CE, UL, cUL, DLC, LM79, LM80<br><b>Controller</b> : CE compliant, UL listed to UL1741 and CSA C22.2 No. 107.1-16<br>UL listed to ANSI/ISA 12.12.01-2015 and CSA C22.2 No. 213-15<br><b>Solar Module</b> : TÜV SÜD listed to UL 1703 and IEC 61730 |        |        |

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| ZX30 ORDERING CODE |                                           |                |                                         |                                      |                     |                          |
|--------------------|-------------------------------------------|----------------|-----------------------------------------|--------------------------------------|---------------------|--------------------------|
| Series             | OPERATING PROFILE & POWER SELECTION       | Morning Mode*  | Weather adaptive technology activated** | Color Temperature (°K)               | Light Distribution  | Sleeve pole shape        |
| ZX30               |                                           |                |                                         |                                      |                     |                          |
|                    | <b>A</b> = Dusk 5h at 6W (1050 lm), OFF   | <b>N</b> = NO  | <b>N</b> = NO                           | <b>4000</b> = 4 000°K                | <b>T2</b> = Type 2M | <b>SQ</b> = Square 4"x4" |
|                    | <b>B</b> = Dusk 8h at 4W (700 lm), OFF    | <b>Y</b> = YES | <b>Y</b> = YES                          | <b>3000</b> = 3 000°K                | <b>T3</b> = Type 3M | <b>RD</b> = Round 4"     |
|                    | <b>C</b> = Dusk 12h at 2.5W (468 lm), OFF |                |                                         | <b>2200</b> = 2 200°K                | <b>T5</b> = Type 5S |                          |
|                    | <b>SM</b> = Custom                        |                |                                         | <b>590</b> = 590nm (Turtle-Friendly) |                     |                          |
|                    |                                           |                |                                         |                                      |                     |                          |

Example: **ZX30-A-N-Y-4000-T3-SQ** ( \_ZX30\_ - - - - - )

\*Morning mode, 1 hour from the evening segment will be transferred to the morning segment (1 hour of lighting before sunrise).

\*\* When "weather adaptive technology" is activated, light output is modulated according to environmental conditions.

| ACCESSORIES SOLD SEPERATLY              |                   |                                                                                                                                                                  |
|-----------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION                             | PART NUMBER       | NOTES                                                                                                                                                            |
| STRAIGHT POLE ARM (12 Deg.) 2 ft lenght | <b>#RD212</b>     | Otherwise, a standard side of pole tenon is provided for the luminaire installation. See <i>Installation Guide</i> for details. (EPA = ZX + 1.5pi <sup>2</sup> ) |
| ARTICULATED ADAPTER ± 20 DEGREES        | <b>#TENART20</b>  | Allows light redirection.                                                                                                                                        |
| REMOTE CONTROL                          | <b>#RC01</b>      | Not required for system installation and operation.                                                                                                              |
| BACKLIGHT SHIELD                        | <b>#BL-SHIELD</b> | Reduce light trespass behind the luminaire.                                                                                                                      |

Contact us to determine which product suits your needs and specific location or for customized solutions. These data are based on the worst month of the year according to the mean daily global insolation provided by Natural Resources Canada for Montreal with solar module facing south.



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