

# LX50 SERIES

## COMMERCIAL SOLAR LED LUMINAIRE



The **LX50** solar LED lighting fixture combines the latest in LED lighting technology from Philips Lumileds, infrared motion sensor, solar module and battery into a single compact and stylish housing. There is no wiring or electrical connections. Installation is fast, easy and secure.

The **LX50-DIM** models operate at different light intensities depending on the traffic and the time of night. For the first portion of the night, the lights turn on automatically at low intensity thus providing basic lighting. The light intensity changes to high intensity when a presence is detected. The Morning Mode allows the light to be reactivated early in the morning before sunrise when this option is selected.

The **LX50-DS** models operate on occupancy sensing only. The light intensity is always at full power on detection. The Morning Mode also allows the light to be reactivated early in the morning before sunrise when this option is selected.

### FEATURES & BENEFITS

- Solar powered commercial lighting solution;
- All-in-one design : solar module, controller, battery, motion sensor and lighting;
- **Weather adaptive technology;**
- Dimming options for longer operation;
- Automatic activation at sunset and/or before sunrise;
- Integrated 360° PIR presence detector;
- >100 000 hrs **Philips LUXEON** maintenance free LED operation;
- **Wireless communication;**
- Flexible operating profiles according to your needs, modifications via remote control, sold separately.
- No power cables or wiring needed;
- Universally recognized **common battery group sizes**, easily sourceable locally;
- Easy battery replacement access door;
- Powder coated aluminium housing;
- Quick, easy and safe installation.

### APPLICATIONS

- Public parks;
- Walking paths;
- Bicycle paths;
- Boardwalks;
- Camping sites;
- Parking lots;
- Remote areas.



### MANUFACTURED BY:

Solar Vision inc.  
www.solar-vision.ca  
info@solar-vision.ca  
T. : 819-729-0450



LICENSED FOR  
CANADIAN WINTERS

# LX50 SERIES

## COMMERCIAL SOLAR LED LUMINAIRE

LIGHTING SPECIFICATIONS	LX50 SERIES					
Model	DIM-10	DIM-20	DIM-30	DIM-D2D	DS-10	DS-30
Luminaire Power - Watt (lm/W)	8 W (153lm/W)	13 W (146lm/W)	18 W (139lm/W)	10 W (145lm/W)	7 W (145lm/W)	19 W (136lm/W)
Lumens (lm) (low/high intensity)	500/ <b>1224</b>	500/ <b>1892</b>	500/ <b>2503</b>	451/ <b>1450</b>	<b>1017</b>	<b>2587</b>
Operation, see "Operating profile" document for details.	10h dimming with detection	6h dimming with detection	6h dimming with detection	All night light with dimming	Detection only	Detection only
Maximum hours per night at <b>high intensity</b>	3.5h	3h	2.5h	2.5h	7.5h	2.5h
Morning mode	Available (Before sunrise reactivation)					
Light Distribution Pattern	Type 2 (Pathway) or Type 4 (Area)					
Color temperature (°K)	4000°K, 3000°K, 590nm PC Amber					
CRI (Color Rendering Index)	70					
LED lifespan (Philips Lumileds)	> 100 000 hours					
Recommended mounting height (ft)	8-14ft	8-16ft	8-18ft	8-16ft	8-14ft	8-18ft
Recommended spacing factor	6 x Mounting Height					
PIR Occupancy/Motion sensor radius	20 feet (6m)					
Occupancy sensor time delay	30 seconds (5 minutes or more available on special order)					
Operating Profile	Hours of operation can be divided between evening and morning (before sunrise). Operating profiles can be modified via remote control sold separately.					

SOLAR SYSTEM SPECIFICATIONS	
Solar Module (Watt)	<b>66 Watts</b>
Battery Bank Capacity (Ah)	<b>40Ah @12Vdc (480Wh)</b>
Battery type	Deep Discharge <b>AGM, GEL</b>
Battery Overcharge/Discharge protection	YES
Autonomy (number of days without sunlight)	<b>10 days</b> with a fully charged battery
Operating temperature range	-40°C +50°C

MECHANICAL SPECIFICATIONS	
Mounting type	Top of pole installation, Pole maximum outer diameter: <b>4" (101 mm), Round or Square</b> (pole not included)
Unit Weight - lb (Kg) (EPA)	62 lb (28 Kg) (EPA = 2.65ft <sup>2</sup> )
Body material / Coating	Aluminium / Polyester Powder Coating

WARRANTY & CERTIFICATIONS	
Warranty	Solar Module: <b>25 years</b> Controller: <b>10 years</b> Battery: <b>5 years (prorata)</b> LEDs: <b>10 years</b>
Certifications	Controller : CE compliant, UL listed to UL1741 and CSA C22.2 No. 107.1-16 UL listed to ANSI/ISA 12.12.01-2015 and CSA C22.2 No. 213-15

# LX50 SERIES

## COMMERCIAL SOLAR LED LUMINAIRE

### LX50 ORDERING CODE

Series	Operating profile & power	*Morning mode	Color temperature (°K)	Light Distribution	Pole sleeve shape	Color
LX50	DIM-10	N = No	4000 = 4000°K	T2 = Type 2	RD = Round 4"	BK = Black
	DIM-20	Y = Yes	3000 = 3000°K	T4 = Type 4	SQ = Square 4"x4"	SM = Custom
	DIM-30		590 = 590 nm			
	DIM-D2D					
	DS-10					
	DS-30					

Example: LX50-DIM-30-N-4000-T2-RD-BK ( \_LX50\_ - \_ \_ - \_ - \_ - \_ - \_ - \_ - \_ - \_ )

\* Note : When morning mode is selected, 1 hour from the evening segment will be transferred to the morning segment (1 hour of lighting before sunrise). Not applicable for DIM-D2D & DS profiles.

\*\* "Weather adaptive technology" is activated by default, the light output is modulated according to the environmental conditions.

### ACCESSORIES SOLD SEPERATLY

DESCRIPTION	PART NUMBER	NOTES :
REMOTE CONTROL	#RC01	Not required for system installation and operation.

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.



**MANUFACTURED BY:**

Solar Vision inc.  
www.solar-vision.ca  
info@solar-vision.ca  
T. : 819-729-0450



LICENSED FOR  
CANADIAN WINTERS