

ZX180 SERIES

COMMERCIAL SOLAR LED LIGHTING SYSTEM



PHILIPS
LUMILEDS



LM-79
LM-80

IP66
IK08



The **ZX180** is the most powerful model in the ZX series. Offering more lighting power and autonomy, this luminaire is perfect for **parking lots, schoolyards, intersections and small streets**. 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 **ZX180** 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;
- **IP68** Rated Waterproof electronic.
- 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

- Parking lots;
- Street intersections;
- Public parks;
- Multi-use pathways;
- Schoolyards;
- Bus shelters;
- Remote areas.



MANUFACTURED BY:

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LIGHTING SPECIFICATIONS	zX180 Solar Lighting System		
Philips Lumileds lumen/Watt	175lm/W	170lm/W	165lm/W
Luminaire Power (Watt)	15 W	25 W	35 W
Lumens (lm)	2625 lm	4250 lm	5775 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)	12 to 20ft (3.6 to 6 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 (Watt)	180W		
Battery Bank Capacity (Ah)	110Ah @12Vdc (1320Wh)		
Battery type	Deep Discharge AGM, GEL		
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 installation, Pole maximum outer diameter: 5” (127mm), Square, (pole not included)		
Luminaire mounting	Horizontal tenon, 2-3/8”Ø dia. (included)		
Unit Weight - lb (Kg) (EPA)	130lb (59 Kg) (EPA = 6.95ft²)		
WARRANTY & CERTIFICATIONS			
Warranty	Solar Module: 25 years Controller: 10 years Batterie: 5 years (prorata) Light Fixture: 10 years		
Certifications	Luminaire : CE, UL, cUL, DLC, LM79, LM80 Contrôleur : 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 Module solaire : ETL Intertek listed to UL Std UL61730-1/-2 and UL61215 -1/-1-1/-2. Certified to CSA Std C22.2#61730-1/-2		

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ZX180 ORDERING CODE						
Series	Luminaire power & Operating profile selection	Morning Mode*	Weather adaptive technology enabled**	Color Temperature (°K)	Light Distribution	Sleeve pole shape
ZX180	Luminaire nominal power 15W = 2625 lumens					
	A = Dusk 9h at 100%, then OFF	N = NO	N = NO	4000 = 4 000°K	T2 = Type 2M	SQ = Square 5"x5"
	B = Dusk 4h at 100%, then 8h at 50%	Y = YES	Y = YES	3000 = 3 000°K	T3 = Type 3M	
	C = Dusk to Dawn at 40%			2200 = 2 200°K	T5 = Type 5S	
	SM1 = Custom			590 = 590nm (Turtle-Friendly)		
	Luminaire nominal power 25W = 4250 lumens					
	D = Dusk 5h at 100%, then OFF					
	E = Dusk 3h at 100%, then 5h at 40%					
	F = Dusk to Dawn at 30%					
	SM2 = Custom					
	Luminaire nominal power 35W = 5775 lumens					
	G = Dusk 4h at 100%, then OFF					
	H = Dusk 2h at 100%, then 4h at 40%					
	J = Dusk 2h at 100%, then 6h at 30%					
	SM3 = Custom					

Example: ZX180-25W-A-N-Y-4000-T3-SQ (ZX180 - - - - -)

*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 enabled, light output is modulated according to environmental conditions and cannot be controlled by the user for profiles C and F.

*The lighting power output will be divided between the 2 lights when the accessory #LUMH1-EXT is added to the order code. If needed, contact your representative for a customized operating profile.

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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ACCESSORIES SOLD SEPERATLY

DESCRIPTION	PART NUMBER	NOTES :
STRAIGHT POLE ARM (12 Deg.) 2 ft lenght	#RD212	Otherwise, a standard side of pole tenon is provided for the luminaire installation. See <i>Installation Guide</i> for details. (EPA = ZX + 1.5pi ²)
ADDITIONAL LUMINAIRE FOR DOUBLE HEAD CONFIGURATION	#LUMH1-EXT	Standard side of pole tenon is included for the extra luminaire installation.
ARTICULATED ADAPTER ± 20 DEGREES	#TENART20	Allows light redirection.
REMOTE CONTROL	#RC01	Not required for system installation and operation
BACKLIGHT SHIELD	#BL-SHIELD	Reduce light trespass behind the luminaire.



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