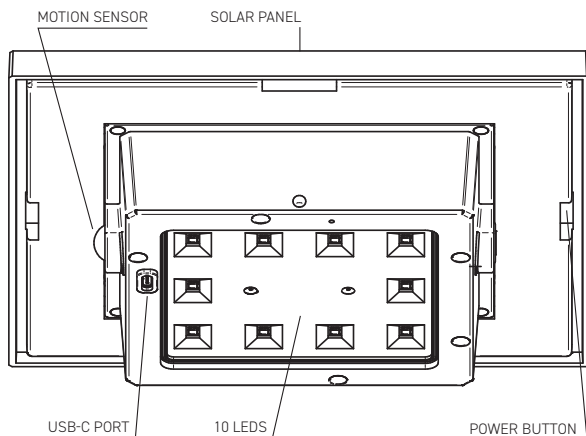
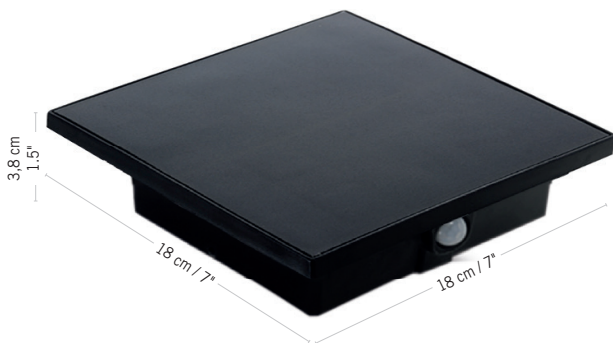
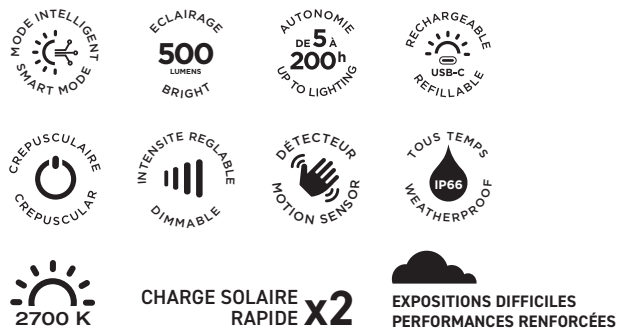


# SMART SOLAR MODULE<sup>☀</sup>

## I-500 LUMENS MAX



Example of positioning in Aix-en-Provence.  
Expected performance in the middle of each month.  
Hypothesis: 4.5-W panel and new batteries.

Month	Recoverable energy in Wh	Length of night in hours	Brightness in lm (mode 1)	Average battery life at 500 lm in hours
January	191	13:40	105	02:08
February	274	12:30	164	03:04
March	439	11:10	188	04:55
April	551	09:35	219	05:42
May	664	08:10	257	05:42
June	720	07:30	279	05:42
July	746	07:30	279	05:42
August	645	09:00	233	05:42
September	478	10:30	200	05:22
October	330	12:00	175	03:42
November	204	13:15	115	02:17
December	165	13:55	89	01:51

### TECHNICAL FILE

REF. : TINK731

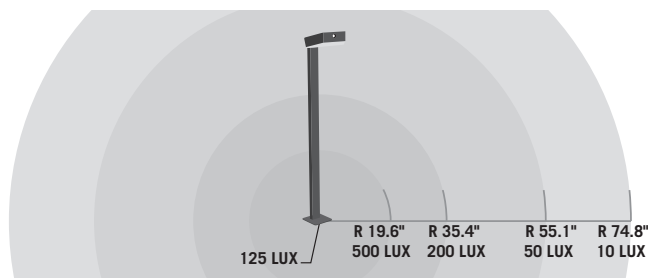
DATE : 13<sup>TH</sup> AUGUST 2025 - V1



Item	Unit	Value
Nominal luminous Flux	lm	500
Minimum dimmed luminous Flux	lm	5
Lifetime at LED temperature of 85°C L70B50	hours	> 50,000
Color temperature	K	2700
CRI		80
Color Kitting CIE x at 350lm 25°C		0,458
Color Kitting CIE Y at 350lm 25°C		0,41
Color Kitting MacAdam ellipse major axis angle	°	54
Color Kitting MacAdam ellipse major axis		0,009
Color Kitting MacAdam ellipse minor axis		0,0045
Storage temperature	°C	-20 to 60
Charging temperature	°C	-10 to 60
Discharge temperature	°C	-20 to 60
Expected battery lifespan to 70 % remaining capacity	years	3 to 6
Battery format		18650
Battery nominal voltage	V	3,65
Battery nominal capacity	mAh	5200
Battery life at 500 lm	hours	5
Battery life at 125 lm	hours	21
Solar panel power	W	4,5
Solar panel coating		ETFE
Solar cell type		Sunpower
Charging port		USB-C IPX7
USB charging power	W	2,5
USB charging time	hours	7
Motion sensor detection angle	°	90
Motion sensor range at 0° angle	m	4 to 12
Weatherproofing		IP66
Weight	kg	0,46
Gross Weight	kg	0,57
Available working modes		Smart Personalized Forced on
EMC radiated immunity		EN61547:2009 level 2
Electrostatic discharge immunity		EN61547:2009 level 2 criteria B
Radiated emissions		EN55015:2013 level 3a/3b
Photobiological safety group		EN 62471:2008 exempt IEC TR 62778: 2014 RG1

### LUX /DISTANCE

Test performed with the light Kobra 43.3" 500 lm



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