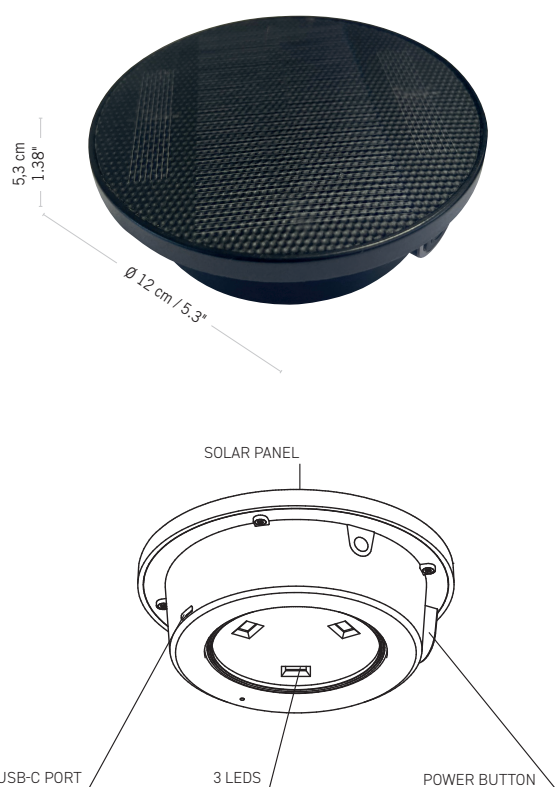


SMART SOLAR MODULE[☀]

200 LUMENS



Example of positioning in Aix-en-Provence.
Expected performance in the middle of each month.
Hypothesis: 1.16W panel and new battery.

Month	Recoverable energy in Wh	Length of night in hours	Brightness in lm (mode 1)	Average battery life at 200 lm in hours
January	49	13:40	29	01:30
February	71	12:30	46	02:09
March	113	11:10	83	03:27
April	142	09:35	109	04:21
May	171	08:10	127	05:14
June	186	07:30	139	05:41
July	192	07:30	139	05:53
August	166	09:00	116	05:05
September	123	10:30	96	03:46
October	85	12:00	58	02:36
November	53	13:15	32	01:36
Décember	43	13:55	25	01:18

TECHNICAL FILE

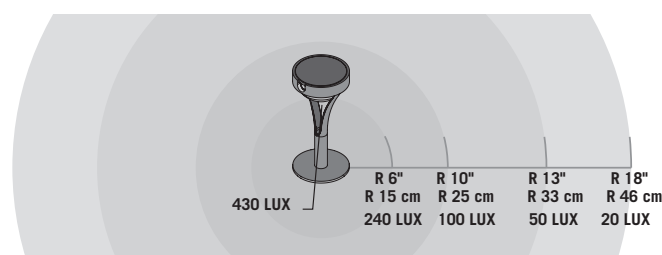
REF. : MRS200

DATE : 15TH MAY 2023 - V2



Item	Unit	Value
Nominal luminous Flux	lm	200
Minimum dimmed luminous Flux	lm	3
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 nominal		0,458
Color Kitting CIE Y at 350lm 25°C nominal		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	2600
Battery life at 200 lm	hours	8
Battery life at 50 lm	hours	31
Solar panel power	W	1,16
Solar panel coating		ETFE
Solar cell type		Monocrystalline
Charging port		USB-C IPX7
USB charging power	W	2,5
USB charging time	hours	5
Weatherproofing		IP66
Weight	kg	0,19
Available working modes		Smart Forced on
EMC radiated immunity		EN61547:2009 level 2
Electrostatic discharge immunity		EN61547:2009 level 2 criteria B
Radiated emissions		EN 55015:2019 Table 10
Photobiological safety group		EN62471:2008 exempt

LUX /DISTANCE
Test performed with the LTS001 light 200 lm



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