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"SOLAR POWERS OF 10"

# solar powers of 10



## "SOLAR POWERS OF 10"

*Solar Powers of 10* is a solar-powered light sculpture, proposed in reference to Charles and Ray Eames' s 1977 short documentary film *Powers of Ten*. The metaphor echoes the energy concerns of the 1970s and the 20th century conquest of scale in today's globalized quests for post-fossil fuel sustainable energy solutions.

Even though solar power is a valid alternative energy resource, stand-alone solar projects remain scarce in today's nightscapes. *Solar Powers of 10* is designed to increase the public's awareness of solar energy by exhaling a nocturnal ghost image of a Sun after hours.



The sculpture comprises an array of solar-powered points of monochromatic light (white and amber), which will charge during the day and reproduce a mirror image of the Sun after hours.

The scales of perception of the installation will vary: it will be seen locally by residents and visitors, by landing and departing plane passengers, from satellites (anthropogenic or astronomical), and possibly in virtual worlds.

*Solar Powers of 10* was selected to be exhibited in two prestigious art venues (Dumbo Art Center's *Art Under the Bridge* festival in New York (2008- 2009), and *Sculpture Key West* in Florida (2009), and was featured in *Beyond Media's Visions* Festival in Florence (2009).

*Solar Powers of 10* had to be postponed for fund-raising, but it has already received the generous support of private, institutional and corporate donors.

***Special Thanks to***

Dumbo Art Center  
Sculpture Key West  
Beyond Media  
The New York Foundation for the Arts (NYFA)



***Institutional Donors***

US Cultural Services of the French Embassy

***Corporate Donors***

L'Observatoire International Inc.

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SolarPath USA

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Goeff Curtis

David, Catherine, Arthur, Charles, Edouard et Marie Durivaux

Jessica Holbook

Miina Matsuoka

Zac & Jessie Moseley

Dawn Reel

Hélène Samuel

## "SOLAR POWERS OF 10"

### URBAN NIGHTSCAPE

*Solar Powers of 10* can be implemented as a billboard display which advertises solar energy.



## "SOLAR POWERS OF 10"

### LAND ART/ PUBLIC ART

*Solar Powers of 10* is a versatile temporary or permanent art work which can be realized in various sizes, and is suitable for various typologies of public space, such as hardscape, softscape and vertical (flat or spherical) structures.

The unit markers are standard products, safe, durable, with a long lifetime, and they do not require maintenance. They are secured onto a mounting frame which is anchored to the receiving surface.



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**BROOKLYN BRIDGE PARK, New York**

*Solar Powers of 10* was selected for the **Dumbo Arts Center's 2008 "Art Under the Bridge Festival,"** (postponed to 2009 for fund-raising). The festival's creative edge, now in its 13th year, has become a renowned artistic event in New York City, and attracted more than 100,000 visitors in 2008.



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### SCULPTURE KEY WEST 2009

*Solar Powers of 10* was selected for **Sculpture Key West 2009** (pending fund-raising). This outdoor exhibition of contemporary sculpture, now in its 13th year, is a well-recognized national artistic event, showcasing international and world-class artists. The event has been widely published in notable publications such as *Sculpture*, *Art in America*, *Art News*, *the Miami Herald*, *The Miami Art Guide*, and more.



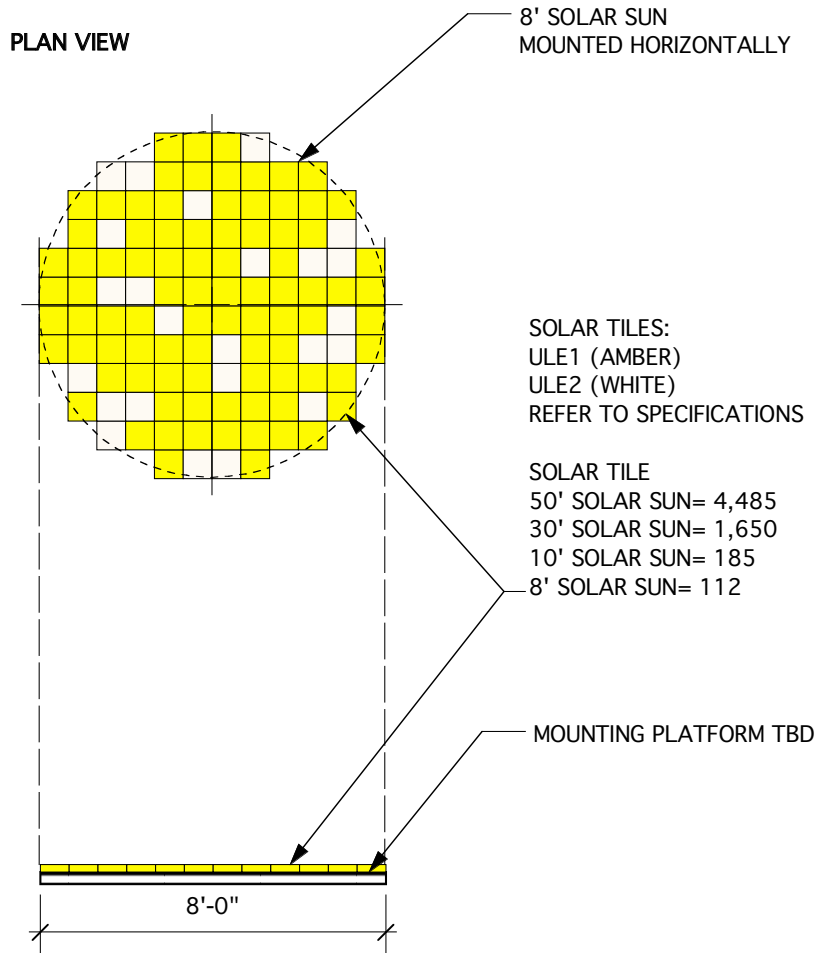
## "SOLAR POWERS OF 10"

If the units are not secured to the mounting platform, they are likely to be taken away by passers-by. The sculpture will desintegrate as a silent manifesto, with the underlying message is that solar energy is given away, and should be taken advantage of.





"SOLAR POWERS OF 10"



Symbol Name		
	112	112
ULE1		88
ULE2		24

<p><b>SOLAR SUN- 8'</b>          PROPOSAL: SOLAR SUN INSTALLATION          SCHEMATIC PLAN</p>		<p>nathalie rozot          planning &amp; design          pmbbox # 187          @ 111 E 14th st          tel 347 387 7119          info@nrozot.com</p>	Drawing Scale: <b>1"= 4'</b>			
	<table border="1"> <tr> <th>revision</th> <th>date</th> </tr> <tr> <td>first issue</td> <td>2008_0401</td> </tr> </table>		revision	date	first issue	2008_0401
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"SOLAR POWERS OF 10"

Size

L. Square - 8"W x 8"L x 2"3/8"H

Weight

L. Square - 5.5lbs / 2.5kg

Colors

Orange, Amber, White

Operation

Charging time 2-8 Hours

Operation at full charge 12 hours

Operating temperature -13 °F - 140 °F

Automatic On/Off level 150 lux - 350 lux

Modulus of rupture 21.8 N/mm<sup>2</sup> (=222 kgf/cm<sup>2</sup>)

Compressive strength 2.74 N/mm<sup>2</sup> (=28 kgf/cm<sup>2</sup>)

Breaking load 34.888 N (=3.560 kgf)

Waterproof 100% - IP 68

Lighting

Color	Luminance (Nit)	Illuminance (Lux)	Uniformity
Red	6.8	6.5	21.6 20.5 90% 80%
Green	17.3	16.4	54.2 51.4 90% 80%
Blue	4.7	4.5	14.8 14.1 90% 80%
Orange	6.3	5.9	19.9 18.7 90% 80%
Amber	3.4	3.2	10.8 10.1 90% 80%
White	13.2	12.5	41.5 39.3 90% 80%

\* Luminance (cd/m) measurement: The luminance of 9 points on the lighting area are measured and averaged.

\* Illurnianance (pm/m) is obtained by multiplying 3.14 to luminance.

\* Uniformity is obtained by dividing minimum luminance by maximum luminance from 9 point measurements.

