



SOLARSPOT®



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LED SOLARSPOT®

*The new sustainable
lighting technology*

SOLARSPOT INTERNATIONAL SRL

ISO 9001: 2008 COMPANY

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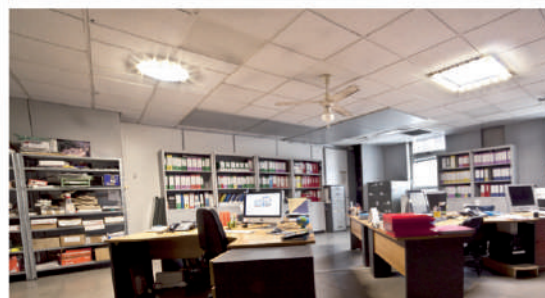
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The most innovative hybrid and sustainable lighting technology for architects and designers who wish to illuminate properly built environments. Maximum use of the natural light of Solarspot® and minimum daytime integrative or night replacement light with the best LED light (international patents in Europe and the USA)

Solarspot®, the most efficient tubular skylight in the world (according to CIE TC 3-38 Report 173:2006, Avis Technique 06/14-2204 CSTB, France, and other official comparisons), is now integrated with the most advanced and adjustable LED technology, to offer a total lighting solution optimizing energy efficiency and supplying also the natural daylight indispensable for human wellbeing.

Each round or square Solarspot® ceiling unit is equipped with adjustable and interactive LEDs, controlled by a light-sensitive probe and programmed to ensure an adequate lighting level to the rooms. During the day, the control and adjustment probe identifies the natural light levels in the environment and, if the quantity goes below the requested level, it activates and adjusts the LED units to integrate the artificial light flux with the natural light one and to keep the preset values.

Of course also the lighting inside increases at the increase of natural light levels outside, and the light emitted by the LED is reduced or switched off. This solution, logic and yet revolutionary, allows to maximize energy saving and the “green” credentials, offering enormous advantages to the buildings’ occupants.



Benefit

Energy Saving

In Italy the energy saved in buildings occupied mostly during the day can reach on average up to 80% with respect to the exclusive use of electric light, when the lighting levels are not enough to supply the requested quantities. In buildings used for longer periods, savings will be proportional to the hours of employment. The advantage of the system is to avoid human intervention with a virtuous management of electricity consumption.

Often people switch on the electric lights in the morning and, out of habit, leave them on all day!

Improved comfort
















Thanks to the constant control and adjustment of light in the environment the suitable minimum lighting levels for the spaces can be set at the consistent levels requested for the activities, safeguarding the well-being of occupants with the maximum amount of natural light.

Reduced maintenance cost

Controlling and regulating the use of artificial lighting systems, the appliances’ useful life is significantly lengthened. This not only reduces the cost of replacing individual lamps or whole lighting appliances, but it preserves longer the initial quality of emitted light and prolongs the life of our investments



LEDSOLARSPOT® TECHNICAL SPECIFICATION

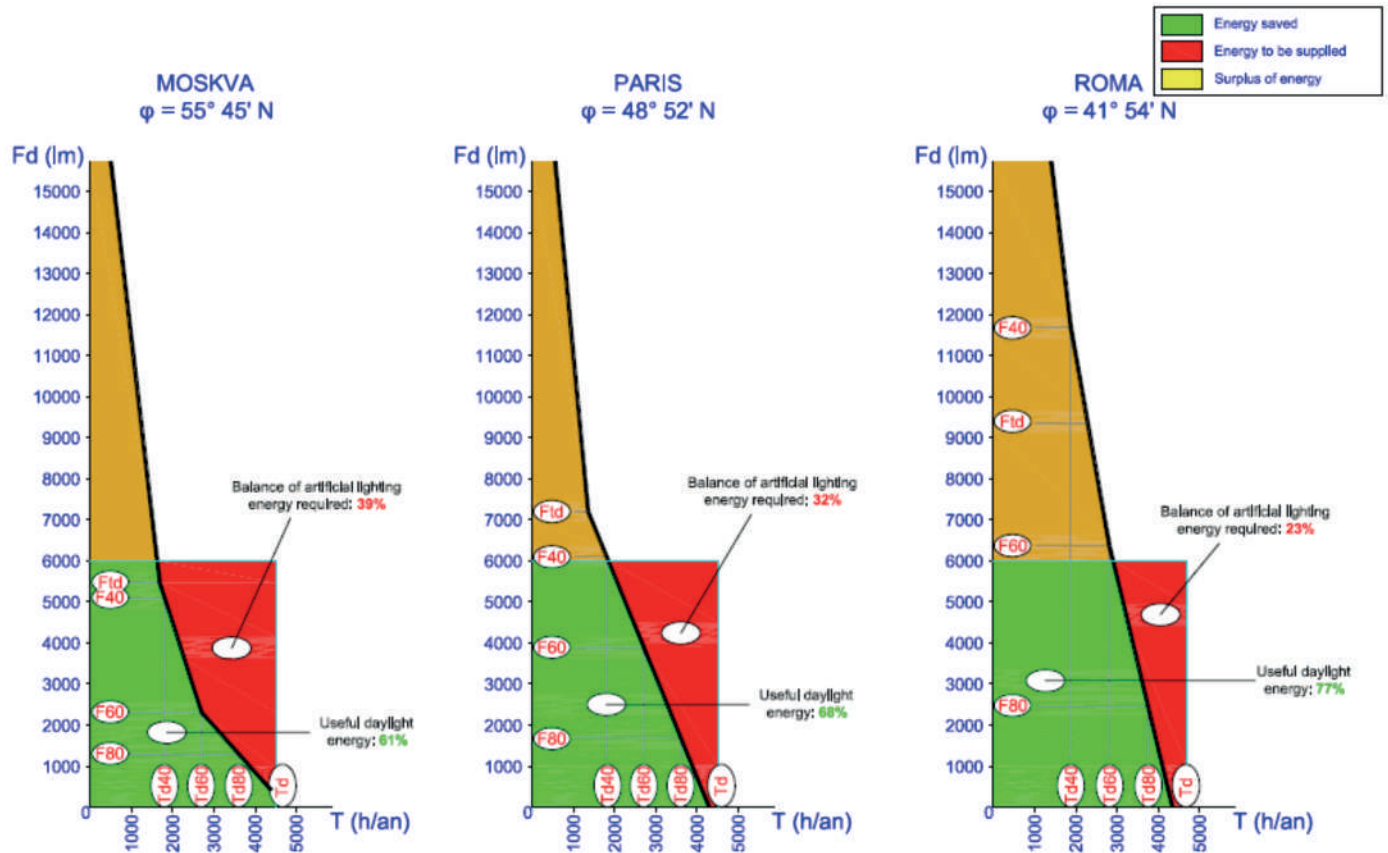
Ø	D-25	D-38	D-53	D-65	D-90
CHARACTERISTICS	<p>The smallest system in the range and designed for domestic installations and smaller areas of commercial buildings. D-25 fits practically to every building, attics (mansards) and below rooms included, also with false ceiling.</p>	<p>This mid-sized system is designed and added to the D-25 for larger domestic installations and smaller areas of commercial buildings. The D-38 fits in to the most diffused building construction techniques, without the need for structural alterations. It is also perfect for attics (mansards) and below rooms included, also with false ceiling.</p>	<p>The 530mm system is ideal for lighting medium sized spaces and will fit perfectly both in the spaces with a false ceiling made with modular panels 60 x 60 and with plasterboard continuous finishing, or similar. It can be used in multiples for lighting larger offices, classrooms or commercial spaces. The 530mm diameter allows it to fit through most commercial building structures and roofs.</p>	<p>This 650mm diameter unit has been designed to be used in multiples to light larger spaces with high ceiling levels. The unit can be used as a simple lamp unit for lighting open-ceilinged industrial spaces, or it can be supplied with adjustable angles and extensions, allowing for daylight to be piped over distances of 20 meters plus, into the heart of a building, also in relation with continuous or modular panels false ceilings.</p>	<p>The largest Solarspot system in the range, which each unit is capable of lighting areas of up to 95 sqm. The system ideally suited for lighting large open spaces with high ceilings.</p>
IDEAL FOR	<ul style="list-style-type: none"> - Bathrooms - En suites - Corridors - Landings - Hallways - Attics 	<ul style="list-style-type: none"> - Large bathrooms - Kitchens - Corridors and entrance halls - Living rooms - Smaller offices - Attics 	<ul style="list-style-type: none"> - Offices - Workshops - Smaller manufacturing facilities - Wider corridors - Classrooms 	<ul style="list-style-type: none"> - Manufacturing facilities - Warehouses - Retail sheds - Exhibition spaces - Sports arenas and centres - Logistics and distribution facilities 	<ul style="list-style-type: none"> - Manufacturing facilities - Warehouses - Retail sheds - Exhibition spaces - Sports arenas and centres - Logistics and distribution facilities
RECOMMENDED SPECIFICATION	<p>Diameter 255 mm For attics length 0,4 → 1,2 m For ceilings with height 2,5 → 3,5 m Till a length of 3 m: lighting area 8 m² Max length 7 m: lighting area 6 m²</p> <p>For use with plaster-board, suspended and open- ceilings. Square and round.</p> <p>Square and round diffuser styles available. Available flashings suitable for tile roofs or with metallic sheets, coplanar or zenithal on pitched roofs.</p>	<p>Diameter 380 mm For attics length 0,4 → 1,2 m For ceilings with height 2,5 → 3,5 m Till a length of 3 m: lighting area 18 m² Max length 11 m: lighting area 13 m²</p> <p>For use with plaster-board, suspended and open- ceilings. Square and round diffuser styles available.</p> <p>Square and round diffuser styles available. Available flashings suitable for tile roofs or with metallic sheets, coplanar or zenithal on pitched roofs.</p>	<p>Diameter 550 mm For ceilings with height 2,5 → 5 m Till a length of 3 m: lighting area 35 m² Max length 15 m: lighting area 25 m²</p> <p>For use with plaster-board, false-ceiling and open-ceilings, or in suspended version (lamp kit) with length 0,6 → 1,2 m.</p> <p>Square and round diffuser available. Available flashings and supports for every type of industrial roofing.</p>	<p>Diameter 675 mm For ceilings with height 4 → 10 m Till a length of 3 m: lighting area 50 m² Max length 20 m: lighting area 35 m²</p> <p>For use with plaster-board, false-ceiling and open-ceilings, or in suspended version (lamp kit) with length 0,6 → 1,2 m.</p> <p>Square and round diffuser available. Available flashings and supports for every type of industrial roofing.</p>	<p>Diameter 910 mm For ceilings with height 6 → 15 m Till a length of 3 m: lighting area 100 m² Max length 30 m: lighting area 70 m²</p> <p>For use in open ceiling environments in suspended version (lamp kit) with length 0,6 → 1,2 m.</p> <p>Round diffuser and flashings for every type of industrial roofing are available.</p>
LAYOUT					
ROUND	 <p>6 LED - 2000 lm Max suggested W 25 Power supply: LPF-400-36</p>	 <p>12 LED - 4400 lm Max suggested W 55 Power supply: LPF-600-36</p>	 <p>20 LED - 8000 lm Max suggested W 80 Power supply: LPF-900-36</p>	 <p>30 LED - 12000 lm Max suggested W 120 Power supply: HLG-150H-36B</p>	 <p>40 LED - 16000 lm Max suggested W 160 Power supply: HLG-240H-36B</p>
SQUARE	 <p>20 LED - 8000 lm Max suggested W 80 Power supply: LPF-900-36</p>	 <p>24 LED - 10000 lm Max suggested W 100 Power supply: HLG-120H-36B</p>	 <p>24 LED - 10000 lm Max suggested W 100 Power supply: HLG-120H-36B</p>	 <p>40 LED - 16000 lm Max suggested W 160 Power supply: HLG-240H-36B</p>	 <p>60 LED - 25000 lm Max suggested W 250 Power supply: HLG-320H-36B</p>



ILLUMINATING POWER - LUMINOUS FLUX

MODEL	ACTUAL DIAMETER	ANNUAL AVERAGE NATURAL DAYLIGHT FOR LOCALITIES AT 45° LATITUDE	LED TARGET
LEDSOLARSPOT® D25	Ø 250 mm	960	2000
LEDSOLARSPOT® D38	Ø 375 mm	2190	4400
LEDSOLARSPOT® D53	Ø 530 mm	4730	8000
LEDSOLARSPOT® D65	Ø 650 mm	7840	12000-16000
LEDSOLARSPOT® D90	Ø 900 mm	17200	16000-25000

Yearly energy balance for SOLARSPOT® D = 530, L = 600. Experimental efficiency $E_g = 73\%$ (ATEC 6/11 - 1975) - www.cstb.fr. Calculation for lighting a room of 20 m² floor area to get the illuminance average of 300 lux, omitting the room Utilization Factor, made with SateL-Light Global illuminance data. With such procedure the energy saved is, prudentially, the minimum available.



DEALER :