Parivartan

Innovative



By *Mr. Sekhar Nori Founder*

Skyshade



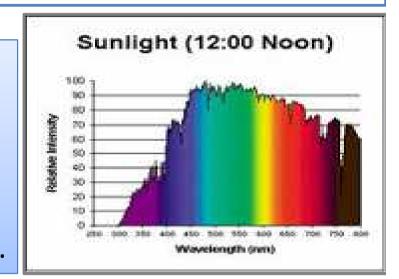
Why Daylight in Buildings?



Human eye response is good for Daylight spectrum

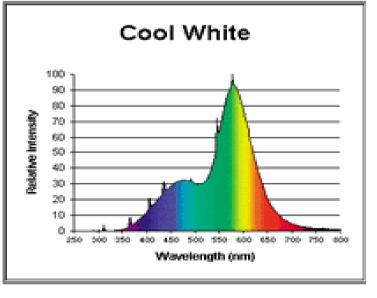
Daylight Spectrum:

- Daylight is the source of well being and health.
- It provides high luminance.
- Permits excellent colour discrimination.



Electric light Spectrum:

- Artificial light is a distortion of the full spectrum light.
- It can only mimic the daylight spectrum but cannot match it.

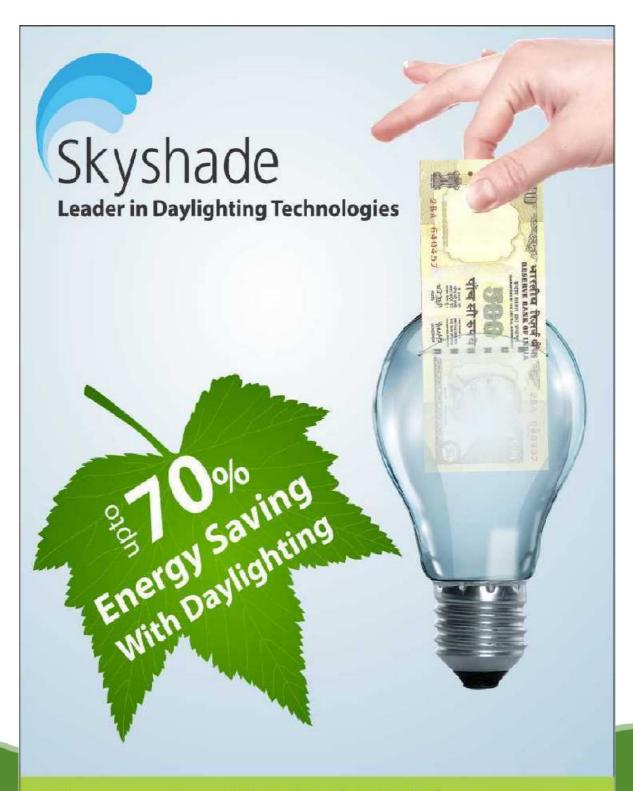




Benefits of Daylighting

Daylight/Sunlight is considered Energy
which invigorates Body/Mind.
Psychologically keeps people in better shape.





Harvesting Sunlight Without Heat



CO2 Emission Reduction by using Energy Efficiency Daylighting Solutions



Solar power lighting vs. Solar Daylighting

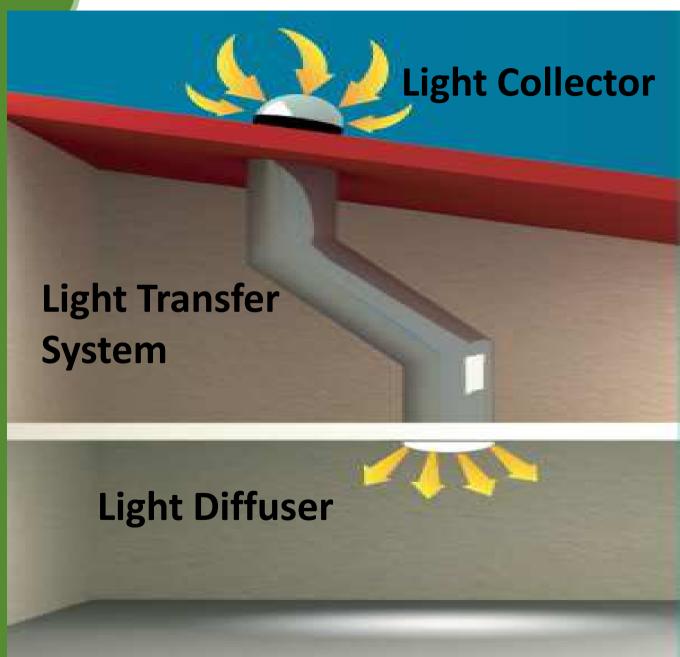
Solution	Solar PV Power	Solar Daylighting (Lightpipe)
Energy Generated	4.4 KWH/Day	4.4 KWH/Day
Roof area occupied	10 Sq.m	0.5 Sq.m
Investment	Rs. 1,20,000	Rs. 24,000
Lumen output	24,000 lumens	24,000 lumens
Lumen Output/Rupee	0.2	1.0
CER / Annum (in kgs)	1241	1488
CER /Annum (Kgs /Rupee)	0.01	0.06 Kg



Lightpipe™

- Tubular Daylighting System







Energy Saving Statistics



Lightpipe Size	Equivalent Wattage of Electrical Lighting	Lumen Output	Electrical Energy Savings	Area Coverage approximately
750 mm	475 w	22,000 lumens	1800kwhs	1000Sft
530 mm	300 w	12,000 lumens	1100kwhs	500Sft
400 mm	180 w	8,000 lumens	650kwhs	350Sft
300 mm	90 w	4,000 lumens	320kwhs	150Sft









Lightpipe Daylighting in Basement





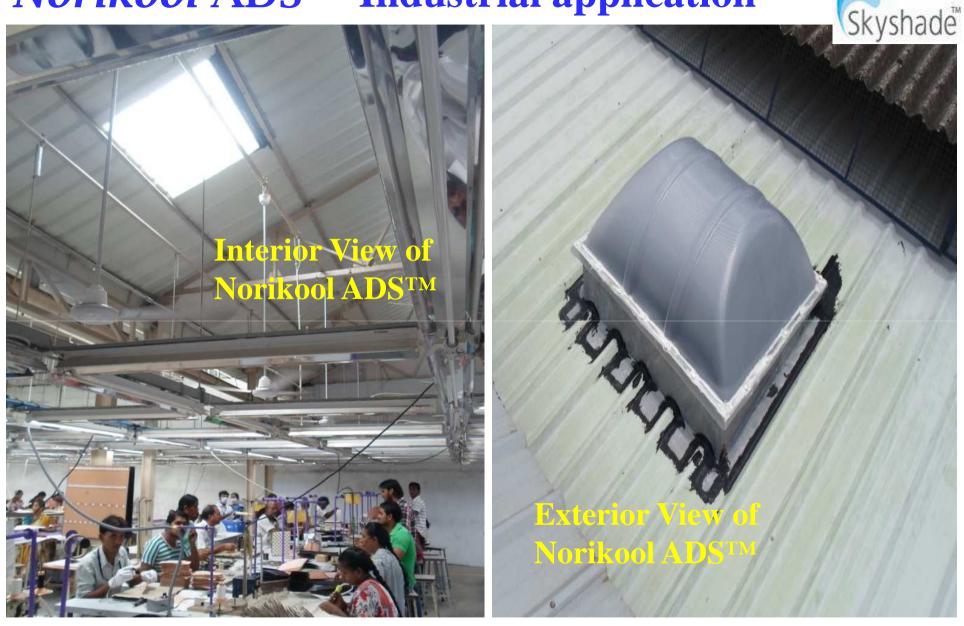
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Norikool ADSTM

Harvesting Sunlight without heat

Norikool ADSTM Industrial application



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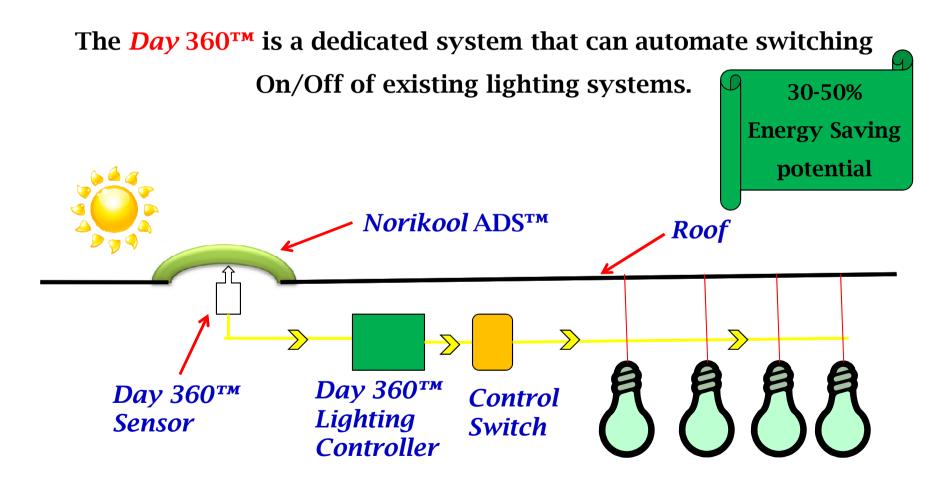
Solar power lighting vs. Solar Daylighting

Solution	Solar PV Power	Solar Daylighting (Norikool ADS)
Energy Generated	6.6 KWH/Day	6.6 KWH/Day
Roof area occupied	12-14 Sq.m	1.2 Sq.m
Investment	Rs. 1,70,000	Rs. 22,000
Lumen output	36,000 lumens	36,000 lumens
Lumen Output/Rupee	0.211	1.63
CER / Annum (in kgs)	1861	2233
CER /Annum (Kgs /Rupee)	0.01	0.1

Norikool ADSTM - Additional Energy saving option



Day 360TM Lighting Controller





Day 360-IDS INTEGRATED DAYLIGHTING SYSTEM

Up to 50% Energy Saving Potential

Central control panel

All the lighting system are connected to control panel which receives data from them and transmits data to them.



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Integrated Daylighting System (IDS)





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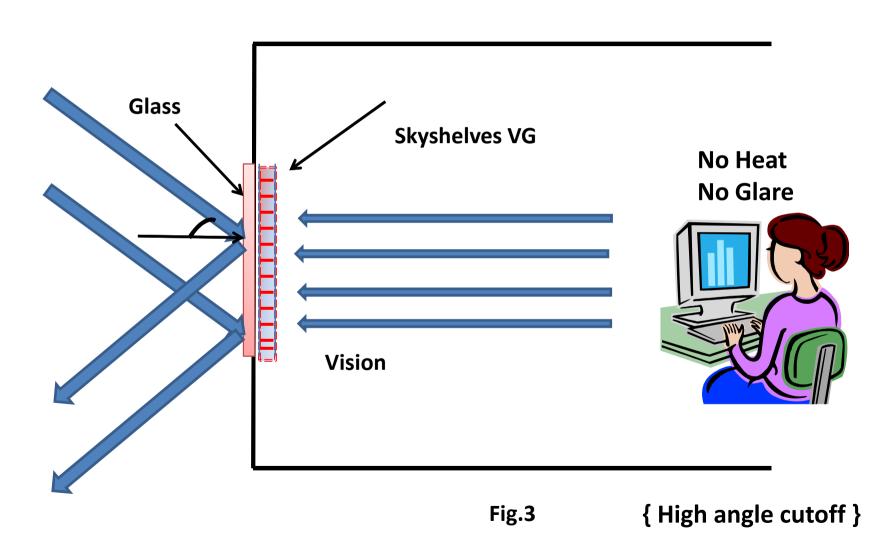


Skyshelves TM Daylighting System

Heat + Glare blocker for windows Glass

Working of Skyshelves™ VG:





Skyshelves™ Cost Benefit Analysis



Skyshelves ™delivers the key benefit of improving the ambience of the spaces and make them lively. This is a qualitative, and of immeasurable value.

As the system uses Sunlight, Energy Savings is a derived benefit.

Energy Savings:

Electrical power required for 100 Sq.m area { @ 50 Lumen per Watt of Luminous efficacy}.

Electric power required is 2.25 KW. Considering 9 hours of Daylighting per day @ Rs 8 / Kwh and 300 days per year.

Energy Savings = 2.25 * 9 hrs /day * 300 days/Year * Rs 8

= Rs 48,600 P.A.













Thank You

www.skyshade.in