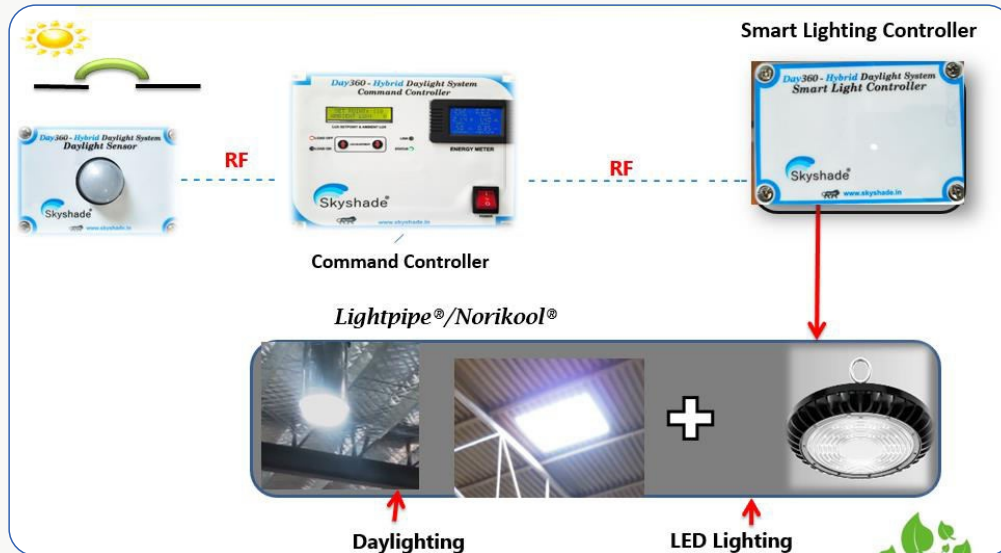


Day360 - Hybrid Lighting

"The Future of Lighting"

Skyshade Hybrid lighting is most energy efficient and automated lighting solution which reduces LED Lighting power consumption upto 80% !



What is Skyshade hybrid lighting?

Natural light is free solar energy source. Natural light can be harvested for building illumination during day time. Using natural light to the maximum for 9-11 hours in the day and use LED lighting in non-sunshine hours is HYBRID LIGHTING. The switch over from natural light to LED light is seamlessly automated without human intervention.

Hybrid lighting is an advanced lighting solution having following components:

- LED Lights with smart controller.
- Daylighting systems as renewable light source for building illumination.
- Command controller for LUX & OCCUPANCY based control Energy measurement tracking light level set Point.

Daylighting Systems:

- Patented Skyshade Daylighting systems viz. Lightpipe[®] & Norikool[®] provide building Illumination bright and uniform for 9-12 hours a day.

LED Lights with Smart Controller:

High bay LED Lamps are equipped with smart controllers which operates on wireless communication and controls the switching on/off of lamps as per desired lighting levels inside and ambient light outside.

Daylighting & Occupancy sensors:

True daylight & occupancy sensors measure the ambient light and check the occupancy of the areas to control the LED lights.



Command controller:

Daylight sensor, measuring ambient light feeds the Command controller. Based on this data and desired light required inside, it communicates/signals all the LED Lights to switch on/off as per ambient light. The command controller track the energy consumption of electric lights showing the customer the energy savings by using Hybrid lighting system.



How it works:

- Customer sets up the lighting requirement of the space on master controller.
- Daylight Sensor gives feed to master controller the amount of daylight available at any given point of time.
- Command controller communicates all LED Lights installed in the space to switch on/off.
- The wireless communication between LED Lights smart controllers & Command controller controls the operation of LED Lights depending on daylight available inside.
- The burning hours of LED Lights power is measured to show power consumption & energy savings of LED Lights.
- During night time, occupancy sensor switches off the LED lights which are not occupies.

Payback:

Unlike LED Lighting, Hybrid lighting pays back the investment cost through energy savings.

Health & Comfort:

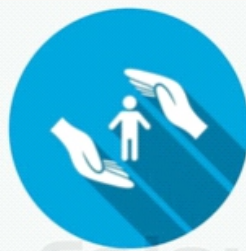
The patented Daylighting systems provides natural illumination keeping buildings bright with high visibility. Natural light is good for mental health & eyes.

Long life:

Since 9-10 hours a day, buildings use natural light, LED Lights are off. This increases LED Lights life by 3 times reducing replacement cost .

BENEFITS OF HYBRID LIGHTING

- Energy savings of 50-80% over LED lighting .
- It is the only lighting system that can pay back its cost .
- In low traffic areas like storage or warehouses, The LED Lightings are equipped with smart occupancy sensors which switch off the lights when there is no occupancy of the area.
- Reduction of maintenance costs of electric lighting.
- Hybrid lighting uses renewable energy source and is economical than solar power .



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