

## EWINDOW - SIMULATED SKYLIGHTS

Contact: ENERTIA Lighting Design & Build  
C46, Sector-10 Noida 201301 U.P. India  
[info@enertia.co.in](mailto:info@enertia.co.in)  
[www.enertia.co.in](http://www.enertia.co.in)

Simulated Skylights

Composition of Ewindow



Off



Sky light



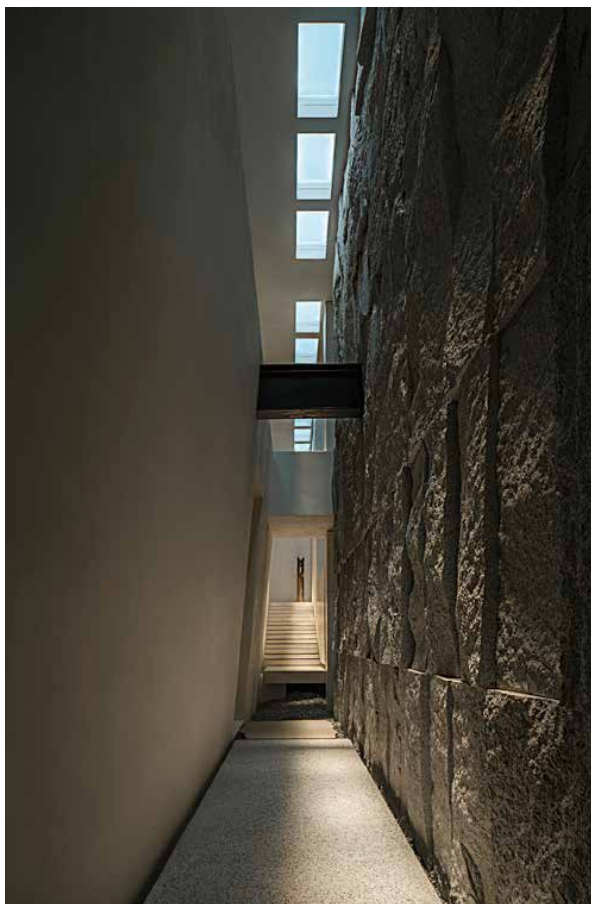
Sun light

Project: Basement

Composition: Sky light + Sun light

Product: Ewindow2-1206 /Cloud View version

Simulated Skylights



## Intensity of Ewindow

Illuminance(3m):5000\*lux  
Illuminance(10m):1500\*lux

---



Project: Canyon  
Beam angle: 7°  
Installation height: 10m  
Product: Ewindow2-1206/True Blue version

Simulated Skylights

## Control of Ewindow



### Ewindow - Artificial Sunlight System

Ewindow can synchronize with the changing sunlight cycle of 24 hours.

From sunrise to sunset, restore the sunlight environment.

Ewindow can locate the latitude of various places to determine the sunshine duration.

DALI /APP /Wired mode/Wireless mode/Timer/Dimming/Password protection/Latitude positioning/Memory function



## Control Panel

Automatic mode: light changes with the 24-hour cycle of sunlight

Manual mode: light color and brightness can be adjusted at will

Radio frequency transmission signal



## App

Bluetooth transmission signal

The state when exit is remembered

App can control turning on or off the Ewindow



Digital Addressable  
Lighting Interface

## DALI

Device Type 6 (DT6)

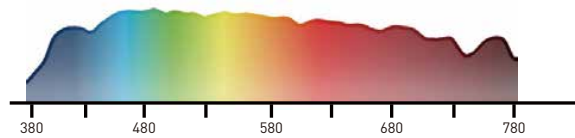
Device Type 8 (DT8)

Can adjust light and color temperature

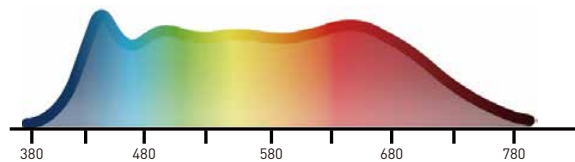
Simulated Skylights

## Spectrum of Ewindow

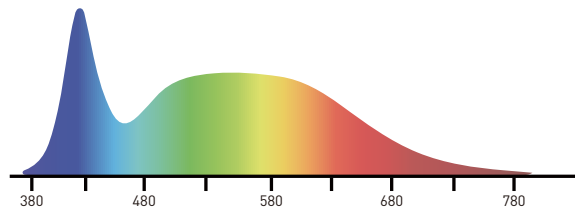
After extensive experimental research, the Ewindow used a variety of phosphor ratios to finally match an LED that is very similar to the sunlight spectrum, to provide better light color quality.



Sunlight spectrum : most abundant spectrum



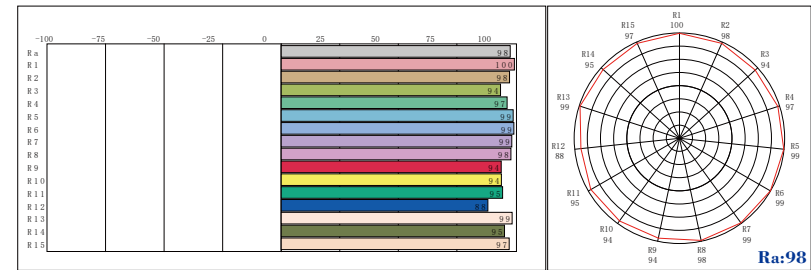
Ewindow spectrum : most closest to sunlight



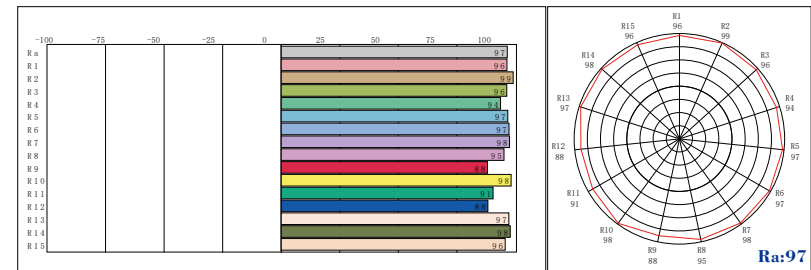
Common LED spectrum

The color render index is a numerical value that indicates the color render of a light source.

Its value is close to 100, which means the color render is the best.

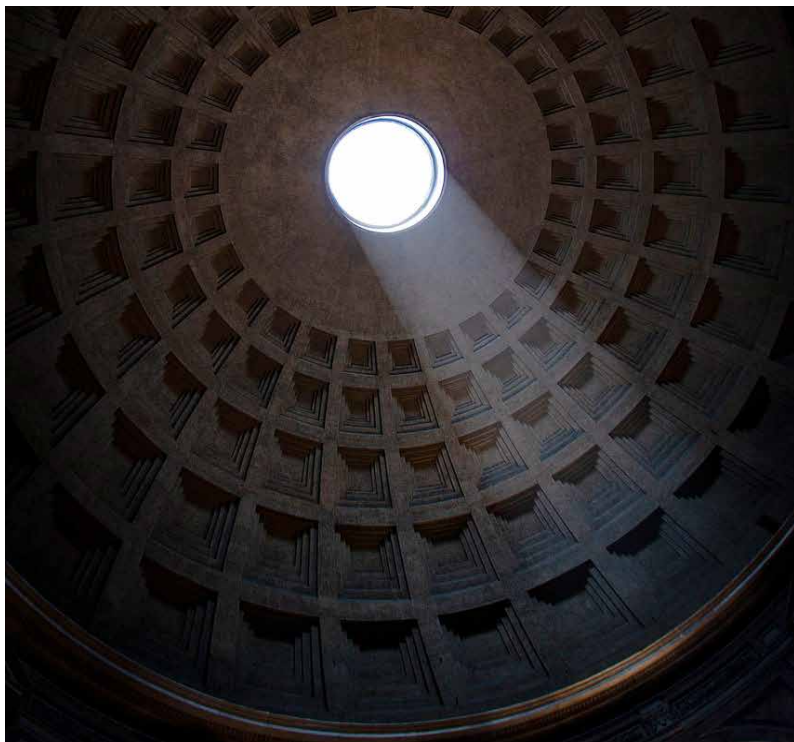


Ewindow Daylight White LED CRI



Ewindow Warm White LED CRI

Simulated Skylights



---

The Pantheon

## Salute to The Sunshine

---

8 Ewindows are spliced together  
Open the ceiling in a round shape  
Like a beam of sunlight shining directly indoors

Project: Sales Center  
Product: Ewindow2-1206/Cloud View version



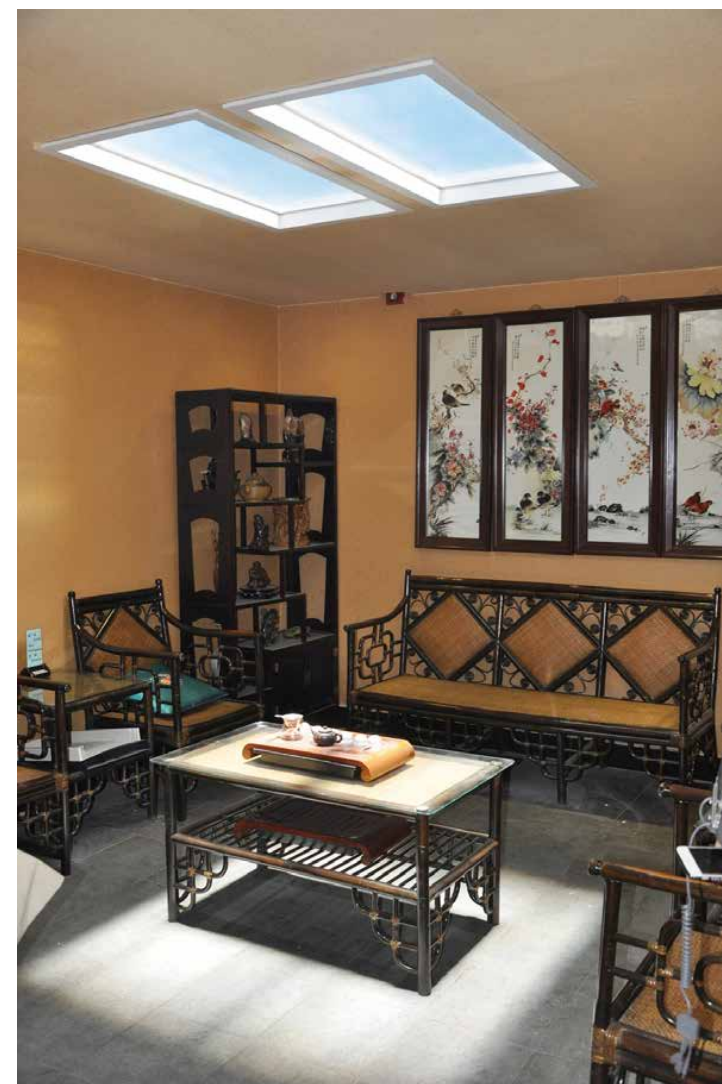
Simulated Skylights

## Basement Space

According to surveys, more than 40% of indoor spaces are lack of sunlight now. A space with insufficient sunlight will have a dark and depressing atmosphere. Being out of contact with sunlight for a long time will easily lead to mental illness.

Sunlight is the life of a space. Using EWINDOW as a supplement of indoor sunlight, restores the vitality of the space, and revitalizes the use of the space. The blue sky also adds color to the space.

Project: Underground Tea Room  
Vertical sunlight tea table  
Product: Ewindow2-1206/True Blue version



Simulated Skylights



## Enclosed space

Project: Corridor  
Product: Ewindow3-1503E



## Museum space

Project: Museum  
Product: Ewindow2-0606/True Blue version

Simulated Skylights



## Natural Scene

EWINDOW uses precision micro-optical technology to focus light into a large-area parallel beam. EWINDOW simulates sun spots in all aspects, from light shape to illumination to light quality.

There is endless reverie outside the window, and there is warm sunshine inside the window. When there is sunshine, there must also be a blue sky. Dynamic sky effects for one sky, blue sky, white clouds, dusk, and various sky scenes can be switched freely. Your sky is defined by yourself.

Project: Exhibition Hall

4 Ewindows can be used when spliced together

Product: Ewindow3-1212S/moving clouds



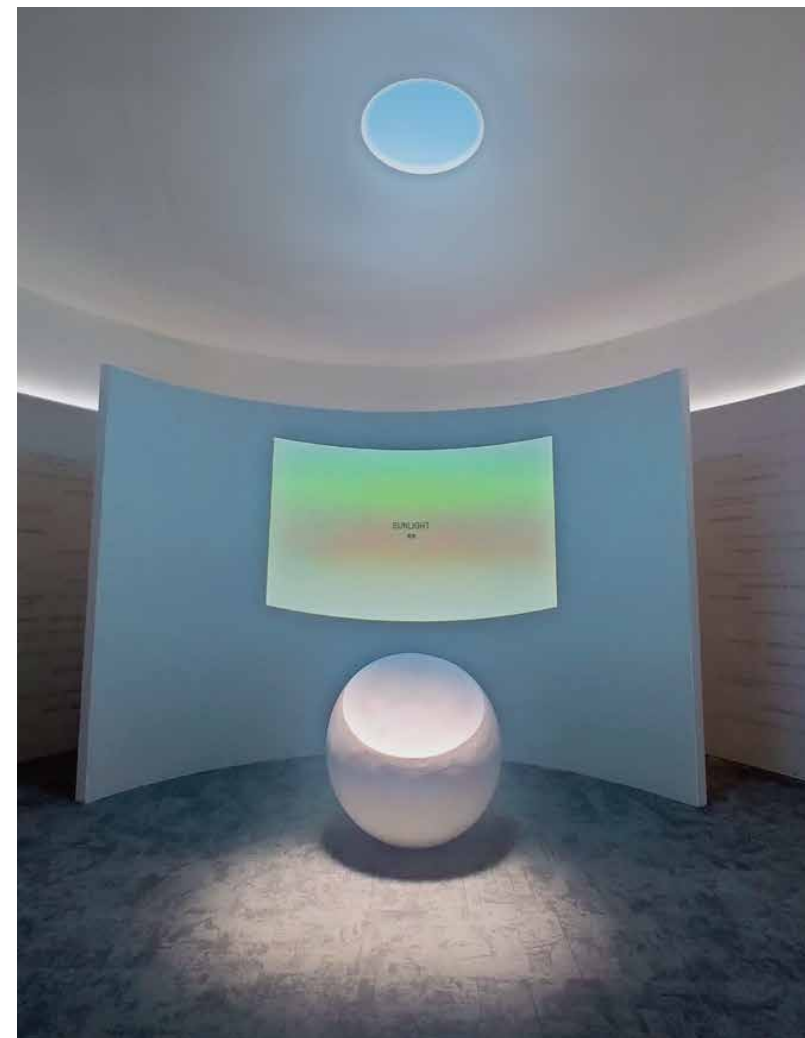
Simulated Skylights

## Exhibition Space

The round is recognized as the most perfect geometric figure in the world. The round is a classic, symbolizing harmony, wisdom, and tolerance. The round building can give people a harmonious and perfect experience.

Ewindow - round series, using circles to echo the sunlight, embedded in the ceiling, like a sun hanging in the sky, giving people warmth.

Project: Furniture Exhibition  
Product: Ewindow3-06R Coming soon.....  
Size:Diameter 605mm



Simulated Skylights



## Audi

Chain Store: 130+ stores installed

Nowadays, most of the indoor spaces are closed spaces. There is a serious lack of indoor sunshine, and the overall space feels dark and lacks vitality.

Ewindow products use technical means to simulate sunlight scenes, bring blue sky, white clouds and bright sunshine indoors, and integrate them with commercial spaces.

Audi 4S store uses Ewindow to provide customers with a comfortable shopping experience.

Project: Audi 4S Chain Store  
8 Ewindows are spliced together  
Product: Ewindow2-1206/True Blue version



Simulated Skylights



## Commercial

Installation: Clothing Store

Chain Store: 60+ stores installed

Product: Ewindow2-1206

Simulated Skylights



## Clothing Store

Project: Glassons Clothing Store

Product: Ewindow2-1206/True Blue version

12 Ewindows spliced into a straight line

Sunshine through the Ewindow into the clothing store

Break through the limitations of space

Give indoor shopping malls an outdoor shopping experience

Simulated Skylights

Sunshine



## Office Space

Project: Meeting Room

Product: Ewindow3-1503E

3 Ewindows are spliced together



Simulated Skylights

## Front Desk

Project: Culture Wall

Height: 3m

4 Ewindows are spliced together

Product: Ewindow3-1503W

The highest wall that can be washed: 12m

Even lighting on the entire wall

The splicing gap between each two splicing Ewindows are 20mm

The lower light spot is parallel to the upper light fixture



Simulated Skylights

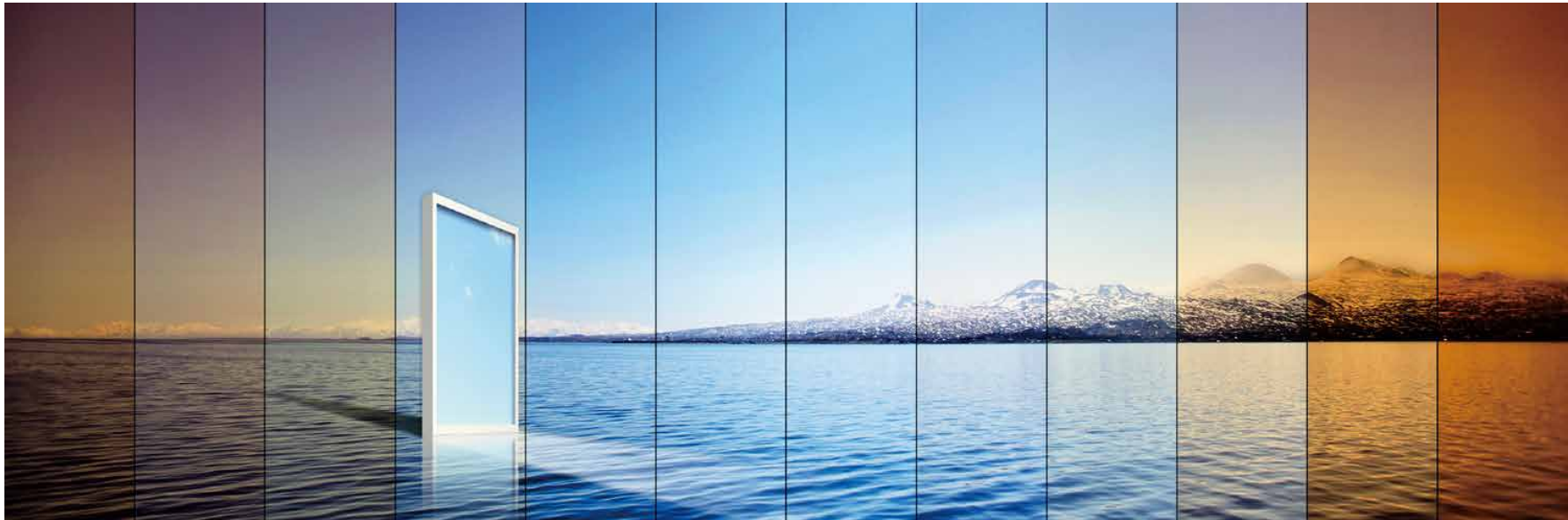
**Circadian Lighting**

2500-10000k CCT

5000<sup>+</sup>lux Illuminance

90% Sunshine Spectrum

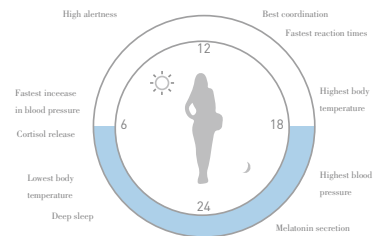
24H cyclical changes



Simulated Skylights



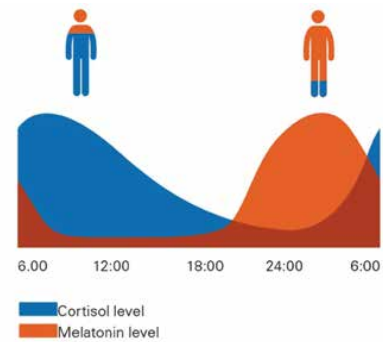
## Human Centric Lighting



The 2017 Nobel Prize in Physiology and Medicine was awarded to Jeffrey C.Hall, Michael Rosbash, and Michael W. Young for their discovery of the molecular mechanism of the circadian rhythm of organisms.

Light therapy with exposure levels at the eye of 2500lux (for 2 hours) has shown to be an effective cure against Seasonal Affective Disorder (Prof. Sloane,2008).

### Sunlight Regulates the Body Clock



When sunshine is bright during the day, the pineal body inhibits the secretion of melatonin and increases the secretion of cortisol, so energy is strong during the day.

When sunshine is dark during the night, the pineal body increases the secretion of melatonin and inhibits the secretion of cortisol, so loss of energy at night.

A daylight environment and cycle help to balance our inner clock with our physiology to the different phases of the day. Improve our performance in the daytime and good sleep at night.

## Hospital



Simulated Skylights



## Phototherapy

Project: Light Therapy Room

Product: Ewindow2-1206/Cloud View version

The main cause of seasonal depression is there is less sunlight in winter, and the body's biological clock does not adapt to the changes in shortened daylight hours, leading to circadian rhythm disorders and endocrine disorders, as well as emotional and mental disorders.

Sunshine is not only the source of life, but also the source of happiness. People who don't see the sun for a long time are more likely to suffer from mental illness.

Phototherapy is a controlled light environment. It has been clinically proven that phototherapy can effectively treat and improve depression symptoms.

Simulated Skylights