

# LIGHTGLASS

Transforming Windowless Spaces







Architectural lighting is capable of much more than just functionally illuminating a space. It can connect us to nature, improve our physical and mental wellbeing, and influence the way we think, feel and behave.

Lighting should improve the quality of our lives.

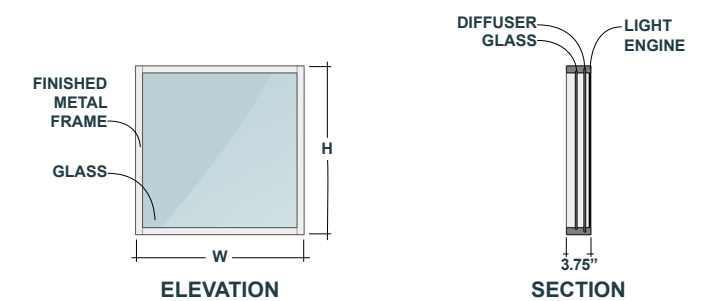
LIGHTGLASS is a windowlight, an architectural element that brings the natural experience of a daylit window into any space. Through the integration of the latest LED lighting technology into the form and materials of a window, LIGHTGLASS is nearly indiscernible from a real window.





# It's not a window.

It's LIGHTGLASS - an architectural element that recreates both the light quality and spatial experience of an actual window.





As cities densify across the globe, light-deprived spaces that are normally overlooked will need to be re-imagined in order to allow for human occupation. Furthermore, these re-imagined spaces will need to address our innate but subconscious desire to experience daylight.

LIGHTGLASS seeks to address this global issue by providing architectural solutions to transform any space into a bright, dynamic and inviting environment. No matter how distant a space may be from access to sunlight, these spaces and their users can now enjoy many of the benefits of daylight.



THE PATH TO  
**CREATIVITY**

## KEY FEATURES



### DYNAMIC

Simulated daylight will change color and intensity throughout the day, just like sunlight through a real window.



### CUSTOMIZABLE

Standard and custom sizes available in multiple finishes to fit any project and match any design.



### EVIDENCE-BASED

Implementing the latest research on Circadian Lighting, Seasonal Affective Disorder, and Biophilic Design.



### SUSTAINABLE

Red List Approved, Energy Efficient, and made to last for decades



### UNCOMPROMISING

A uniform surface of light encased in aluminum and glass, not plastic or acrylic.



### COMPACT

Prefabricated units require only 3.75" of depth for installation in standalone wall and ceiling applications.



### MADE IN THE USA

Buy America Act Compliant - Designed and manufactured in Philadelphia, PA.



### BIOPHILIC

Create connections to nature to benefit people spending hours indoors.



# EXPERIENCE DYNAMIC DAYLIGHT ANYWHERE

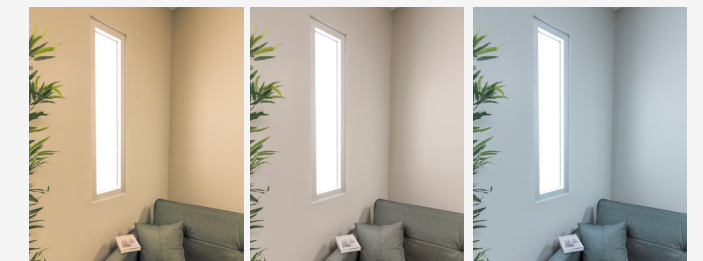


Numerous studies show that natural light improves worker satisfaction and productivity. This is because dynamic light helps regulate the body's natural circadian rhythm. Due to the fact that we spend most of our time indoors, it is essential that any space we inhabit for prolonged periods of time have access to dynamic, broad-spectrum light similar to sunlight.

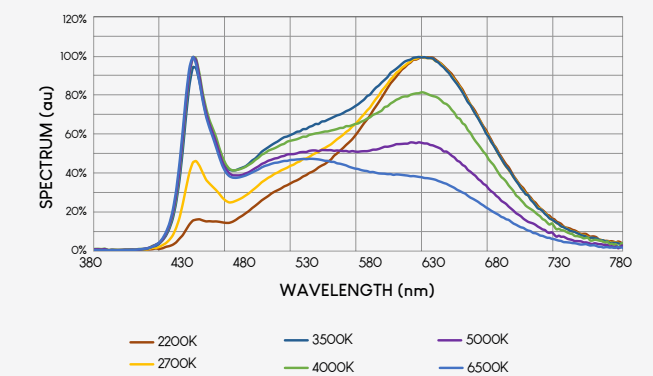
Measuring 3.75" in depth, LIGHTGLASS units can fit within a standard 2x4 wall partition.



Programmable lighting scenarios that simulate changing daylight throughout the day.



LIGHTGLASS is designed to produce broad-spectrum light, similar to sunlight. Warm and cool tunable LEDs work in unison to create a dynamic and immersive circadian lighting experience.

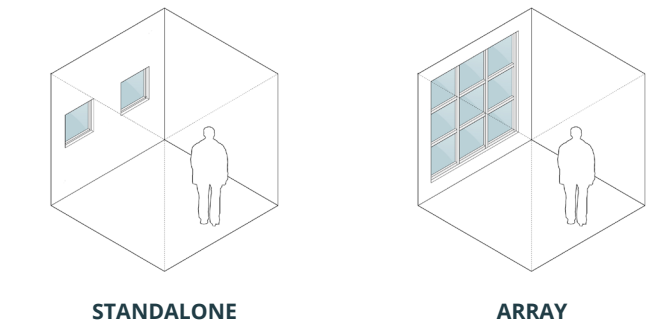




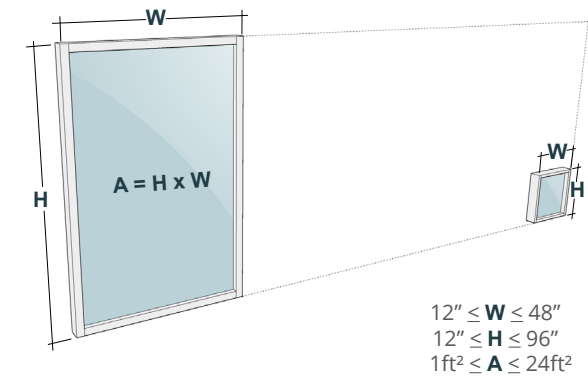
Overview

LOCATION	INTERIOR
DEPTH	3.75", 5.5"
MATERIALS	ALUMINUM, GLASS
DIMMING	DOWN TO 0.1%
CCT	2200K - 6500K
RATING	UL DAMP, DRY, NON-FERROUS, ANTI-LIGATURE
SOURCE	LED, AREA

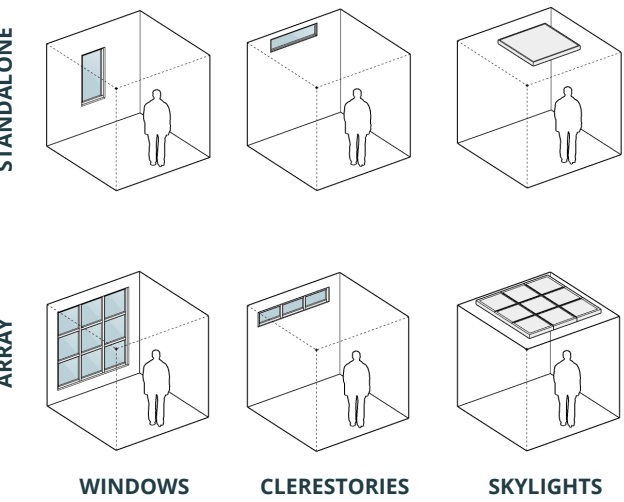
CONFIGURATIONS



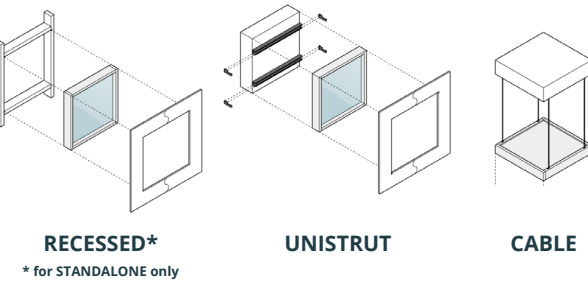
CUSTOM SIZES



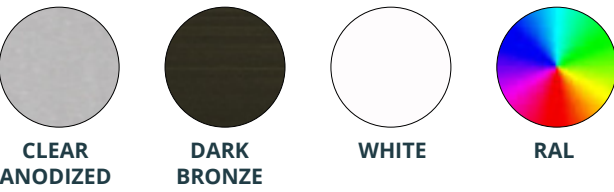
APPLICATIONS



MOUNTING



FINISHES



Performance

Color temperature range of  
**2200K - 6500K**

L70 rating of over  
**100,000 hours**

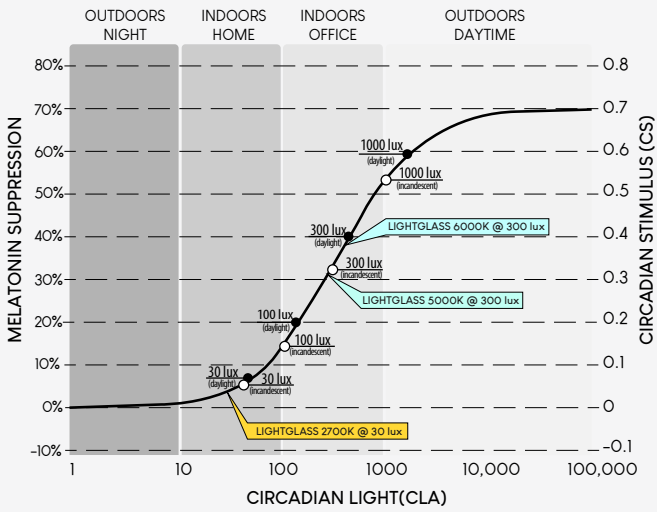
UGR rating of  
**< 12**

Up to  
**94+ CRI**

Lighting uniformity greater than  
**89%**

No perceptible flicker  
per CEC title 24 JA8 & JA10, IEEE PAR 1789-2015

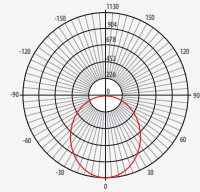
**LIGHTING RESEARCH CENTER: CIRCADIAN STIMULUS**  
LIGHTGLASS provides the recommended levels of vertical illuminance at eye level when applied to vertical surfaces, as stipulated by the *Lighting Research Center* in order to help specifiers create circadian stimulus in the built environment. By producing short wavelength 450nm-490nm light at higher CCTs, LIGHTGLASS is optimized to create a circadian response.



**WELL V2 : EML (EQUIVALENT MELANOPIC LUX)**  
The international WELL Building Institute specifies that the biological effects of light on humans can be measured in Equivalent Melanopic Lux (EML), a proposed alternate metric to Circadian Stimulus that is weighted to the ipRGCs instead of to the cones, which is the case with traditional lux. This weighting factor is defined as the Melanopic Ratio (M/P Ratio). During performance verification, EML is measured on the vertical plane at eye level of the occupant. LIGHTGLASS meets the EML requirements for working environments, learning environments, living environments, and break rooms. See LIGHTGLASS' M/P Ratio and EML for each CCT at high and low intensities in the table below:

CCT	2200K	2700K	3000K	3500K	4000K	5000K	6500K
M/P Ratio	0.40	0.55	0.63	0.74	0.83	0.96	1.08
EML (300 lux)	120	166	190	223	249	288	325
EML (30 lux)	12	16.6	19	22.3	24.9	28.8	32.5

LAMBERTIAN DISTRIBUTION







STEP 0: FIND A LIGHT-DEPRIVED ROOM



STEP 1: ASSEMBLE FRAMED OPENINGS



STEP 2: FURR OUT EXISTING WALL



STEP 3: FINISH THE OPENINGS



STEP 4: INSERT AND CONNECT UNITS



STEP 5: POWER ON AND ENJOY!



INSTALLS LIKE A  
WINDOW





# TRANSFORM

ANY SPACE

BEFORE



AFTER







*You cannot tell it is not a real window.  
Simply amazing.*

**Sean McMurray**  
CEO & Founder of ALVA Lighting

Mayo Clinic Break Room | Jacksonville, FL  
Credit: Tim Sohl



Old San Juan Apartment | Puerto Rico  
Credit: Roberto Jaime Deseda



LIGHTGLASS is continuously evolving and setting the pace for innovations in biophilic lighting technology, as acclaimed by many of the industry's top publishers.

Architectural  
Record

*Architectural Lighting  
Product of the Year*

METROPOLIS

*"A breakthrough in biophilic design."*

BUILDING DESIGN  
+ CONSTRUCTION

*"Any space can now incorporate the  
experience of a daylight window regardless  
of its proximity to the outdoors."*

ARCHITECTURAL  
SSL

*Product Innovation  
Award Winner*



lightglasslighting.com



REQUEST A SAMPLE

