



Neonatal Intensive  
Care Unit

FPO

## CoeLux®

Research has shown that biophilic design – bringing the outdoors into interior design – can create a positive experience for patient and staff alike, in both care and recovery. CoeLux transforms the experience of indoor illumination by precisely creating the look and feel of blue skies on a sunny day. By streaming the illusion of daylight anywhere inside a healthcare environment, CoeLux creates a natural, soothing environment and promotes a general sense of wellbeing.

## CoeLux

Evidence indicates natural light and views have restorative effects on people both physiologically and psychologically. Bringing biophilia, the inherent human inclination to connect with nature, into healthcare facility design can result in restorative environments that promote accelerated healing and can help decrease stress levels in patients.

Similarly, studies have shown that bringing a sense of natural daylight into a nurses' station has improved alertness and mood restoration effects for hard-working staff. It can also soothe anxious family members and friends in a waiting area.

CoeLux offers a visual connection with the outside, bringing the sky into the interior space. The separation between inside and outside disappears as the illusion of infinite depth is created and the immediacy of the sky is brought into the building.



CoeLux provides a unique connection with the exterior, creating a subliminal transition to the sky in an elevator lobby. Placing CoeLux in a cathedral ceiling further accentuates the volume and creates a sense of awe.



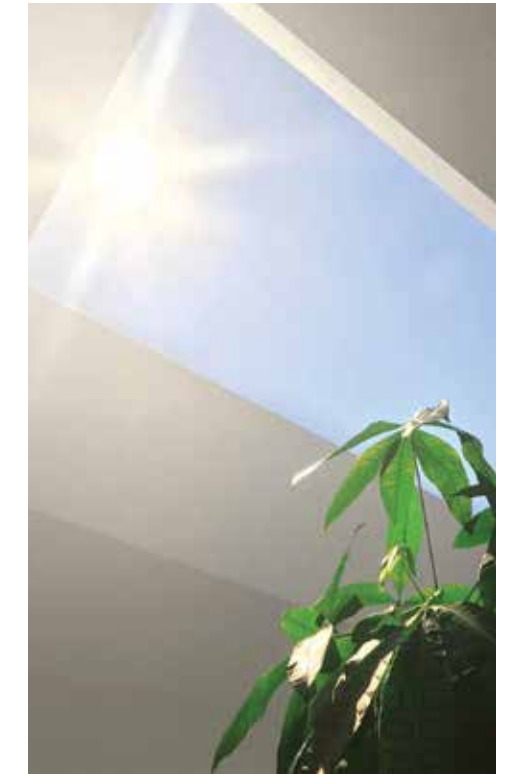
The natural sunny blue sky from the CoeLux fixture brightens a waiting room and helps create a calm, soothing environment for visitors.



The earth's atmosphere is 29 miles deep, consisting of oxygen, carbon dioxide and nitrogen molecules. The blue color of the sky is caused by the scattering of sunlight off the molecules of the atmosphere.



Scientifically referred to as Rayleigh scattering, it is more effective at short wavelengths, or the blue end of the visible spectrum. CoeLux's patented nanoparticle optical system replicates the physics behind the Rayleigh Effect, and delivers the physical effects of daylight.



CoeLux uses LEDs to create the full spectrum of sunlight and mimics the seemingly infinite distance between sun and sky.



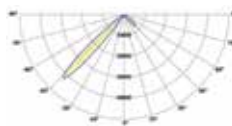
Channeling natural light, CoeLux transforms occupant well-being, instilling positive feelings linked to being outdoors – including visual comfort, mood, and anxiety. In the LS family, the sun appears to follow along the length of the skylight. The infinite sun allows for a seamless linear arrangement of luminaires, immersing the user in the full experience and maintaining the illusion of a real skylight. The LS is available with skylight openings that measure approximately 1' x 4' in an approximately 2' x 4' frame using a specialized CoeLux mounting system.

- Beam angle 45°
- Sun appearance: Visible slightly frosted. Sky appearance: Clear
- Drivers: 0-10V or DALI integral. Dimming 100% to 0.1%
- Lumens: 3300lm/ft
- Transmitted beam CCT 4800K
- Infinite sky CCT 15,000K

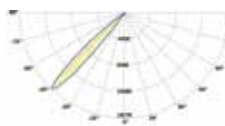
Recommendation: Direct the spotlight on a wall to maximize vertical illuminance



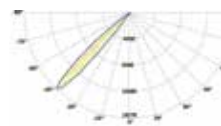
AXLS-ICE



AXLS-MATTE



AXLS-ARRAY



AXLS-Ice produces a 45° beam and a sliver of light in the opposite direction. This feature makes the sun visible from various angles, which is ideal for spaces requiring more lively light. The AXLS-Matte and AXLS-Array both create a single 45° sliver of light. The sun reflects off the matte white frame to ensure superior visual comfort.



Suitable for shallow depth ceilings (9.8"), CoeLux HT Series allows great design freedom. It can be installed in different compositions and the subtle design of the frame facilitates the creation of semicontinuous windows, creating the perception of large portions of sky. The optical design helps to create the sun perceived at infinite distance. The observer, moving in space, will have the impression that the sun is always positioned above his head.

- Beam angle 0° (zenithal)
- Sun appearance: Visible slightly frosted. Sky appearance: Clear
- Driver: DALI remote. Dimming 100% to 40%
- Lumens: 5800
- Transmitted beam CCT 5300K
- Infinite sky CCT 10,000K

Recommendation: Common areas where high horizontal illuminance is desired



SUN PERCEPTION

- Sun peaks through slightly frosted sky
- Infinite sun overhead allows for a seamless array of fixtures
- Sun appears to emanate from the same source of viewing angle
- Size of the sun increases with increasing installation height