

The #1 Active  
Daylighting System  
worldwide!




# CIRALIGHT

SMART SKYLIGHTS



*Defining the Daylighting Evolution*



# A lighting revolution that's time is NOW.



**It's a simple but powerful distinction;**  
Smart Skylights track, capture and drive the  
sunlight indoors at such high light levels, that  
electric lights can be turned OFF!



Ciralight Global Inc. is the only global provider of active daylighting products capable of turning off artificial lights for up to 10 hours a day. Unlike passive skylights, our Smart Skylights use sun-tracking technology and mirrors to track the sun throughout the day and drive natural light into buildings. The result is a bright, healthy glare-free light, just as Nature intended.

Ciralight Global's flagship products, the Smart SunTrackerOne and SunTrackerTwo skylights, are a solar powered green lighting solution for commercial buildings, schools, factories, public facilities and retail stores. In addition to significant energy and cost savings, the benefits from Smart Skylights are many.

# You don't have to go into the red to go green

Save Energy • Improve Performance • Preserve Our Environment



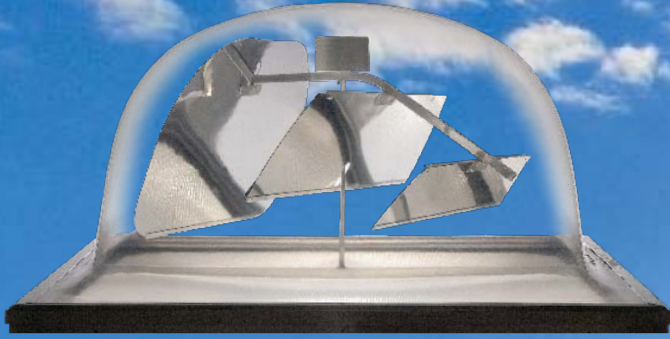
*This City of San Diego Community Center is lit entirely by Advanced Daylighting. The artificial lighting is off!*



*A-1 Cold Storage near the LAX airport has no out-facing windows yet this office is daylit and all fluorescents are off!*

# SunTrackerOne

# SunTrackerTwo



Triple Mirror Design



Single Mirror Design

## The Premium Advanced Daylighting Smart Skylight System

harvests the full-spectrum of daylight — even during early, late and seasonal hours

- 1. GPS Controller** - Fully self contained solar-powered GPS controller tracks the position of the sun and ensures the maximum light. Up to 3 times the light from a typical skylight.
- 2. Diffusion and Thermal Barrier** - State-of-the-art prismatic lens provide evenly dispersed light and a dual-panel thermal barrier that prevents heat gain. Will experience less than 1/2 the heat of a common fluorescent light fixture.
- 3. Mirror Array** - Single or Triple-mirror dynamic tracking array. The mirrors continuously track the sun across the sky even in winter's low sun angles providing an abundant source of free light. No flickering or hum of electric lights.
- 4. Acrylic Dome** - A clear, thermally formed, hi impact resistant acrylic dome providing superior strength and UV resistance. Easy Installation.

## Tax Incentives & Benefits for Renewable Solar Energy Solutions

### Business Energy Investment Tax Credit (ITC)

The credit is equal to 30% of expenditures including labor, with no maximum credit. Eligible solar energy property includes equipment that uses solar energy to generate electricity, to heat or cool (or provide hot water for use in) a structure, or to provide solar process heat. Hybrid solar lighting systems, which use solar energy to illuminate the inside of a structure using fiber-optic distributed sunlight, are eligible. Passive solar systems and solar pool-heating systems are not eligible.



### The Energy Efficient Commercial Buildings Deduction for lighting & building efficiency

The Energy Policy Act of 2005 created the Energy Efficient Commercial Buildings Deduction, which allows building owners to deduct the entire cost of a lighting or building upgrade in the year the equipment is placed in service. The "Commercial Building Tax Deduction" establishes a tax deduction for expenses incurred for energy efficient building expenditures. The deduction is \$.60 to \$1.80 per square foot of the property, with allowances for partial deductions for improvements in interior lighting, HVAC and hot water systems, and building envelope systems. The Emergency Economic Stabilization Act of 2008 (HR-1424) extends the benefits of the Energy Policy Act of 2005 through December 31, 2013.

### Modified Accelerated Cost-Recovery System (MACRS) + Bonus Depreciation (2008-2009)

The federal Economic Stimulus Act of 2008, included a 50% bonus depreciation (26 USC § 168(k)) provision for eligible renewable-energy systems. This provision was extended (retroactively to the entire 2009 tax year) under the same terms by The American Recovery and Reinvestment Act of 2009.

For more information about Federal, State & Local tax credits, rebates and incentives go to [www.dsireusa.org](http://www.dsireusa.org) and consult with your own tax counsel.



# Imagine if you could turn off your business lights an average of 9.2 hours per day!

Retail continues to be one of the best applications, where expected sales increases can reduce ROI payback times to just months.

The full spectrum of daylight allows customers to better distinguish colors of packaging and products—especially food and produce. Studies conducted by a respected research group clearly show that customers remain in daylight stores longer and buy more than comparable artificially lit stores.

LEED with Ciralight Global Daylighting Systems -- Our Smart Skylight Systems will help your project earn LEED credits.



Passive skylights just can't match the duration and intensity of light that comes from the daylight of a Smart Skylight.

During the middle of a sunny day, a skylight transmits direct sunlight that creates glare and heat, pushing the skylight into the Red Zone. Our Smart Skylight spends over twice as long in the Green Zone, (over 50 footcandles) distributing a soft, diffused light and never crossing into the Red Zone. Ciralight Smart Skylights are designed to prevent heat gain associated with typical skylights, thus reducing your lighting and HVAC costs.



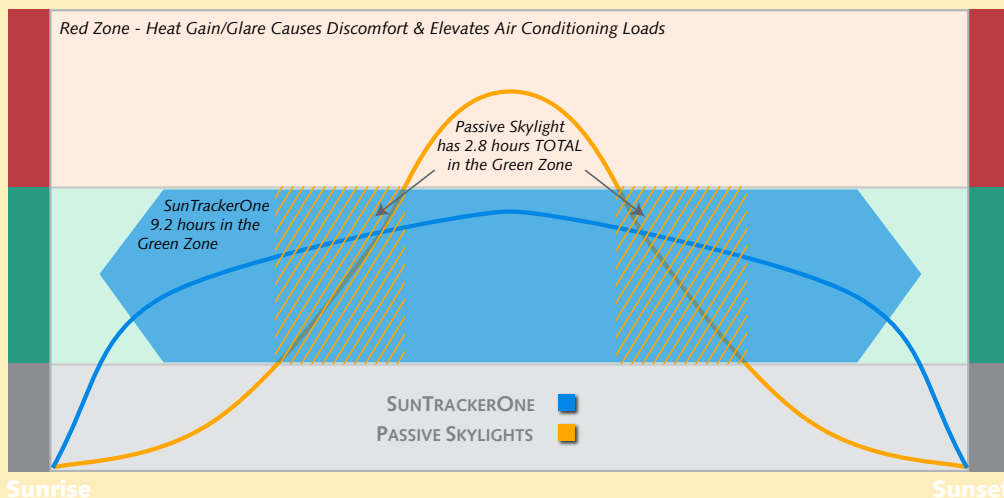
The lights in this store are OFF!

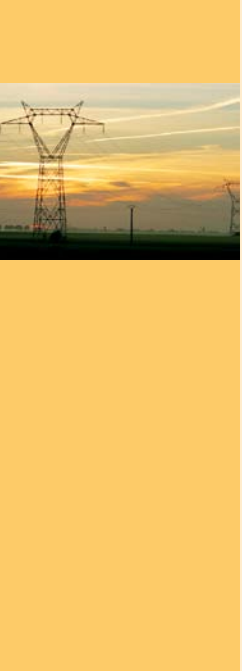
## Office Depot - Greensboro, NC

Average lighting readings in footcandles throughout store - Winter 2007

7:30 AM	9:30 AM	12:30 PM	3:30 PM	7:30 PM
<b>123 fc</b>	<b>107 fc</b>	<b>145 fc</b>	<b>114 fc</b>	<b>119 fc</b>

Daylight Source	SunTrackerOne	Premiere Passive 5x5
Daylighting Hours - Lights Off	9.2	4.4
Hours in the Green Zone	9.2	2.8





## A reduction in energy use alone will provide a 15%-35% Return on Investment.

A reduction in energy bills is certainly the attention-getter when considering daylighting. With more utilities implementing peak demand rates the incentive has never been greater. An unexpected benefit mentioned by current customers is the reduction in maintenance and longer life of their installed artificial lighting systems.

- Ciralight Smart Skylight Systems allow artificial lights to be turned OFF thereby reducing the energy bill for every hour of usable daylight.
- Reduction in air-conditioning costs for buildings as compared to passive skylights.
- Analysts still predict electricity rate hikes for some markets.



## Humans perform and feel better under daylight when compared to artificial light—period. What's left to discover is just how much better.

After you've calculated your potential for energy savings you might reflect on the fact that only 3% of the overhead of a building is energy. Almost 94% is the cost of supporting people within the building. Now you can see where even a small increase in productivity or morale can translate into big returns. It just may be the competitive advantage you need.

- Higher productivity from pronounced increases in morale.
- Studies report up to 45% less employee absenteeism.
- Up to 500% fewer workers comp claims.
- Better visual performance translates into fewer errors (lower scrap rate) and fewer accidents.
- School studies reported 20-26% increase in student test scores.



## Every time our Suntracking Smart Skylights are installed on a building it represents a significant move toward a Greener Planet!

No matter what your view on environmental affairs, anytime we can reduce dependence on foreign fuels & reduce carbon emissions we are better off. Our Smart Skylights allow users to shut off electric lights during daytime hours. *Imagine* the change if every building used Smart skylights and all the energy that would be saved. Smart Skylights provide unlimited Free light from the sun.

- According to the U.S. Department of Energy, in 2006 over 30% of the total energy consumption for commercial and industrial buildings within the United States is attributable to Lighting. (24.8% is directly for the lighting systems and 5.5% is for cooling based upon the lighting systems heat generation).
- A single "big-box" retailer can reduce over 600,000 lbs. of toxic green-house gasses in a single year by incorporating daylighting.

## ■ Benefits from using Ciralight Global Smart Skylights

■ **Retail Sales** go up 10% – 40%, depending on the products sold and the inefficiency of the current artificial lighting system.

■ **Worker Performance** measured in productivity, absenteeism, error rates and accident rates. All improve dramatically under Ciralight.

■ **Student Performance** improves from 7% to 26% when compared to classrooms without daylighting.

■ **Office Performance** overall morale, team performance and the ability to cope with stress show measurable improvements.

■ **Patient Recovery** has been proven to speed up dramatically when patients are exposed to diffused daylight over artificial lighting.

*Source: An Investigation in the Relationship Between Daylighting and Human Performance, Pacific Gas and Electric Company, August 1999.*



## What's the best next step?

If the benefits of daylighting apply to your commercial or institutional building we suggest a no-obligation, in-depth lighting analysis of your facility as a next step.

Ciralight Global has developed a proprietary calculator that evaluates many different factors such as productivity gains and business increases – even how many cloudless days in your area. A Daylighting Advisor can visit your location, evaluate the building, take measurements and provide you with an expected return on your investment. It's a dynamic process that allows you to change any factor and see how it changes your ROI.

**An in-depth, on-site analysis can be easily scheduled either on-line at our web site or via our toll-free phone line.**

[www.ciralightglobal.com](http://www.ciralightglobal.com) **1.877.520.5005**



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### Memberships

