



Streaming Sunlight Deep Inside Buildings to Harvest the Economic Benefits of Sunlight

Sundolier is dedicated to improving Human Performance through improved commercial daylighting



<https://www.youtube.com/watch?v=e5m4Gcv-3kA>



Mission

Deliver the healthiest highest performance buildings
by doing daylighting right!

Dominate ACTIVE CORE DAYLIGHTING
for office, healthcare, education, government,
and retail buildings at a cost that is competitive to
traditional glazing solutions.

Core Daylighting Consolidation Opportunity



Sundolier is seeking to raise \$5 million to acquire **SunCentral** and fund fast growth.

Sundolier & SunCentral are the undisputed global leaders in Active Core Daylighting. The merged entity will combine these leading teams and intellectual property (industry defining combined patent portfolio) to offer a unique full range of Active Core Daylighting products.

Both Companies have almost doubled sales in 2015 and have strong pipelines to continue to double sales each of the next three years.

Benefits of the merged company:

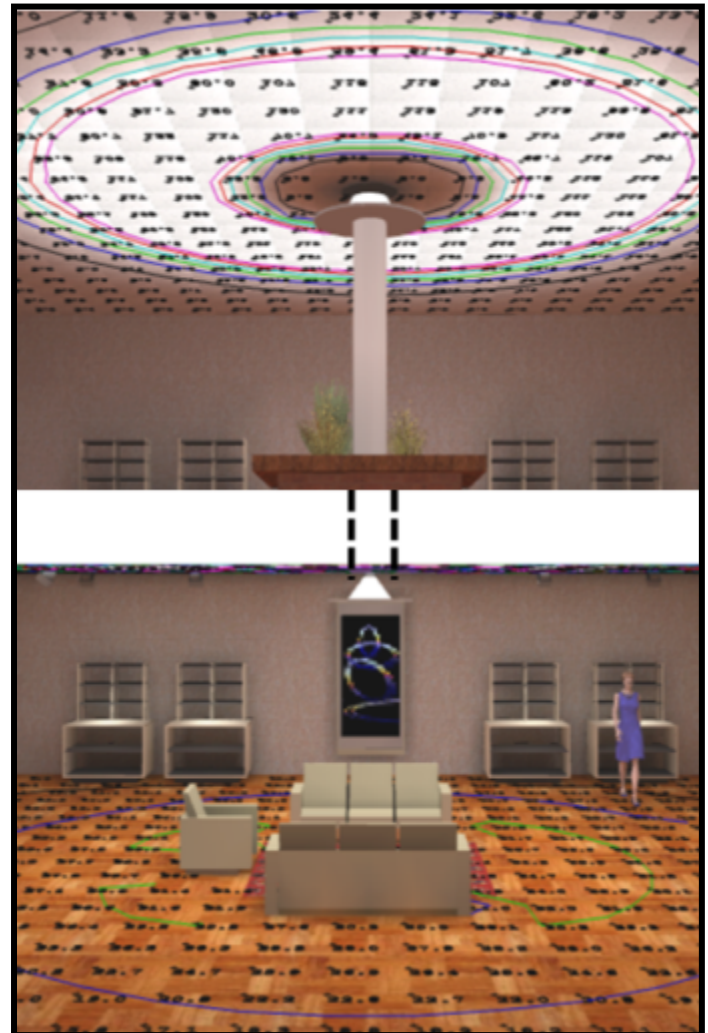
1. Single Source for a broad range of Active Core Daylighting solutions
2. One team means lower total expenses and more Sales & Marketing power
3. More Sales & Marketing means faster & more profitable growth
4. Reach Cash Flow break even in 24 months and 18% operating margin in 2018.
5. Eliminate Competition

Create THE global leader for quality Active Core Daylighting

Problem: Poor Quality Perimeter Daylighting



Solution: CORE Daylighting



Problem: Poor Quality Perimeter Daylighting



Solution:



CORE Daylighting



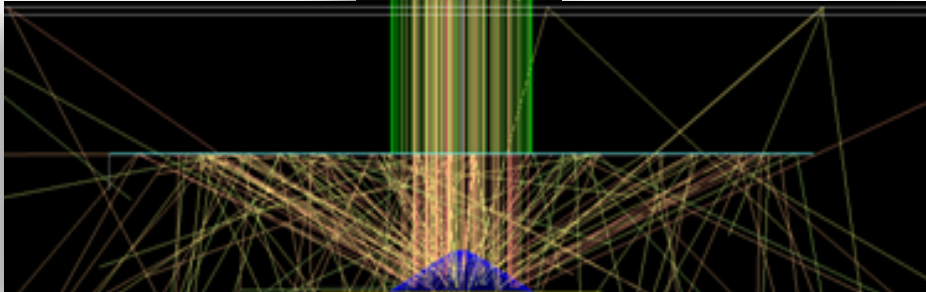
SunLuminaire installed at the Okanagan College, British Columbia, Canada

The Powerful Sundolier Daylighting Solution



← 1. ACTIVE (FULL DAY)
60% more hours of sunlight
120,000 Lumens, 5 Suns

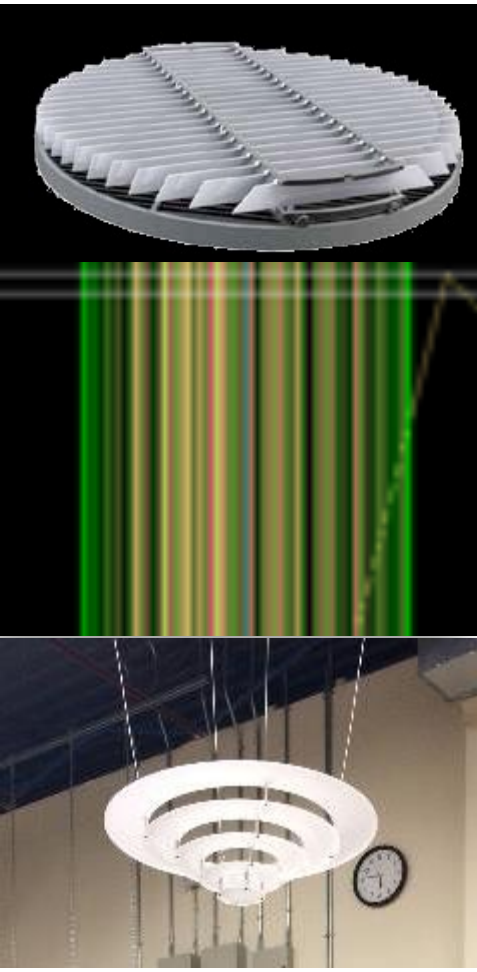
← 2. COLLIMATED
Daylight **ANYWHERE**



← 3. INDIRECT
Evenly distributed, no hot-spots

Two-Day RETROFIT WITH ONLY ONE 24" HOLE
One System daylights 1,000 – 4,000 ft²
lowest cost for a concentrated daylighting system.

The elegant SunCentral Sunbeamer Daylighting Solution



1. ACTIVE (FULL DAY)

50% more hours of sunlight
9,000 Lumens, 1 Sun
18,000 Lumens @ ½ the cost with Gen3

2. COLLIMATED

Daylight **ANYWHERE**

3. INDIRECT

Evenly distributed, no hot-spots

SunBeamer offers a “Lean“ Profile & the lowest “per unit” cost for directable collimated sunlight

SUNDOLIER is bringing higher quality DAYLIGHT to *core spaces*

Open Spaces
4,000 ft², Colorado



Two Floors
Future Niche



Deep Core
Two Floors Down



 SunCentral[®] is bringing higher quality DAYLIGHT deeper into the core



Westfield Santa Anita Mall – Arcadia, California,
SunBeamers Redirect Natural Light Deep Into the Interior of





- Tested Daylighting in 1993
- **6% increase in sales**
- **Blue sky = No General Lighting Load**
- Today 2,900 Walmart stores have Daylighting



Ikea a leader in retail sustainability and innovation globally. They can finally do the same!

Economic IMPACT



Circadian Rhythm: is a non-visual daylight trigger to the hypothalamus



Health Care

Faster Recovery

Industry & Office

Productivity

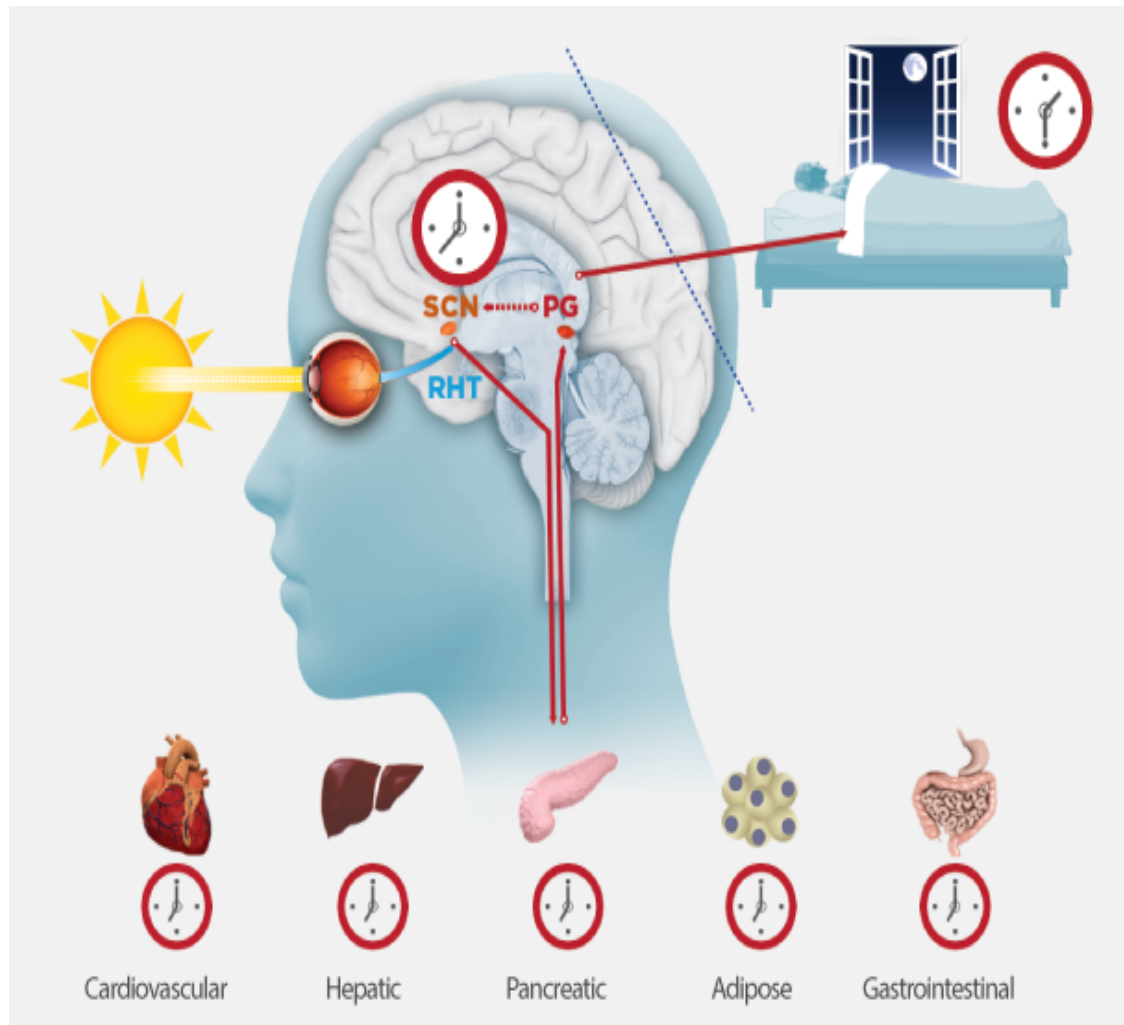
Retail

Higher Sales

Education

Better Cognitive Performance

Daylight's Non-Visual Body Impact



Cardiovascular

- Affecting the Heart and Blood

Hepatic

- Affecting the Liver, metabolism, immune system function

Pancreatic

- Affecting Digestion

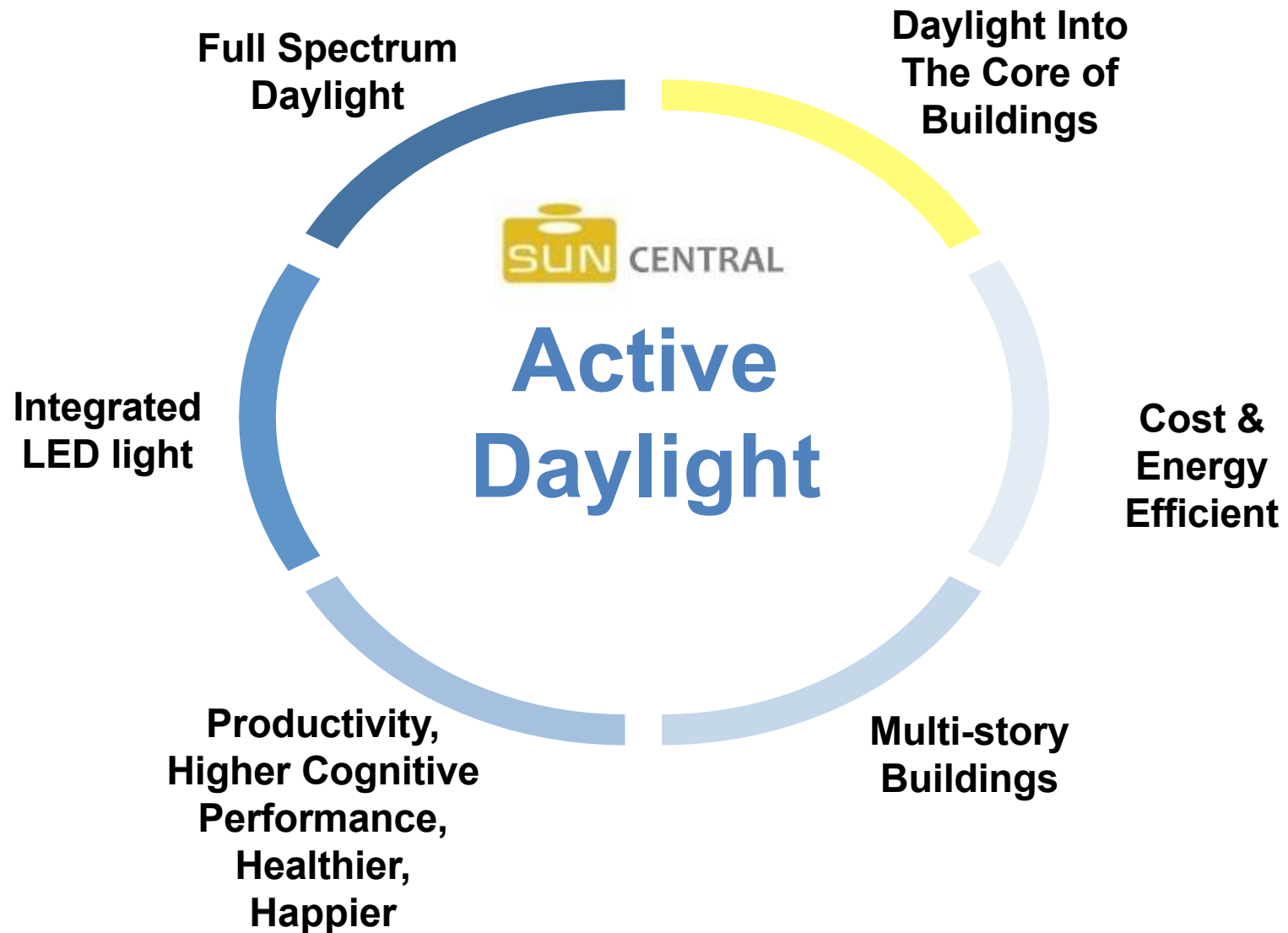
Adipose

- Fatty Tissue

Gastrointestinal

- Affecting the Stomach and Intestine

Value Proposition



Daylight is key to health

Artificial Lighting Poses Health Risks

American Medical Association Asserts – 6/2012

Artificial light is strongly linked to sleep deprivation, a common condition in our society with risk factors for pathological conditions that are epidemic: cardiovascular disease, depression, obesity, diabetes, stroke and breast cancer.

"The natural 24-hour cycle of light and dark helps maintain alignment of circadian biological rhythms along with basic processes that help our bodies to function normally."

Dr. Alexander Ding

"Even dim light can interfere with a person's circadian rhythm and melatonin secretion. A mere eight lux—a level of brightness exceeded by most table lamps and about twice that of a night light—has an effect."

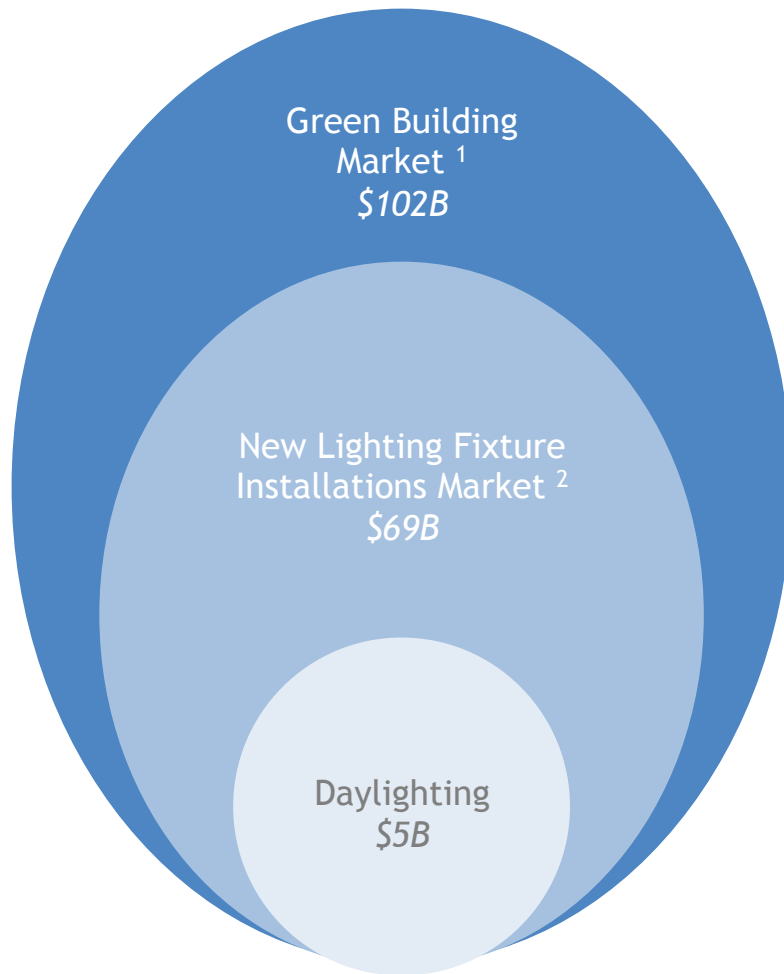
Stephen Lockley, Ph.D.

"There is no question that lighting suppresses circadian rhythms."

Richard Stevens Ph.D.

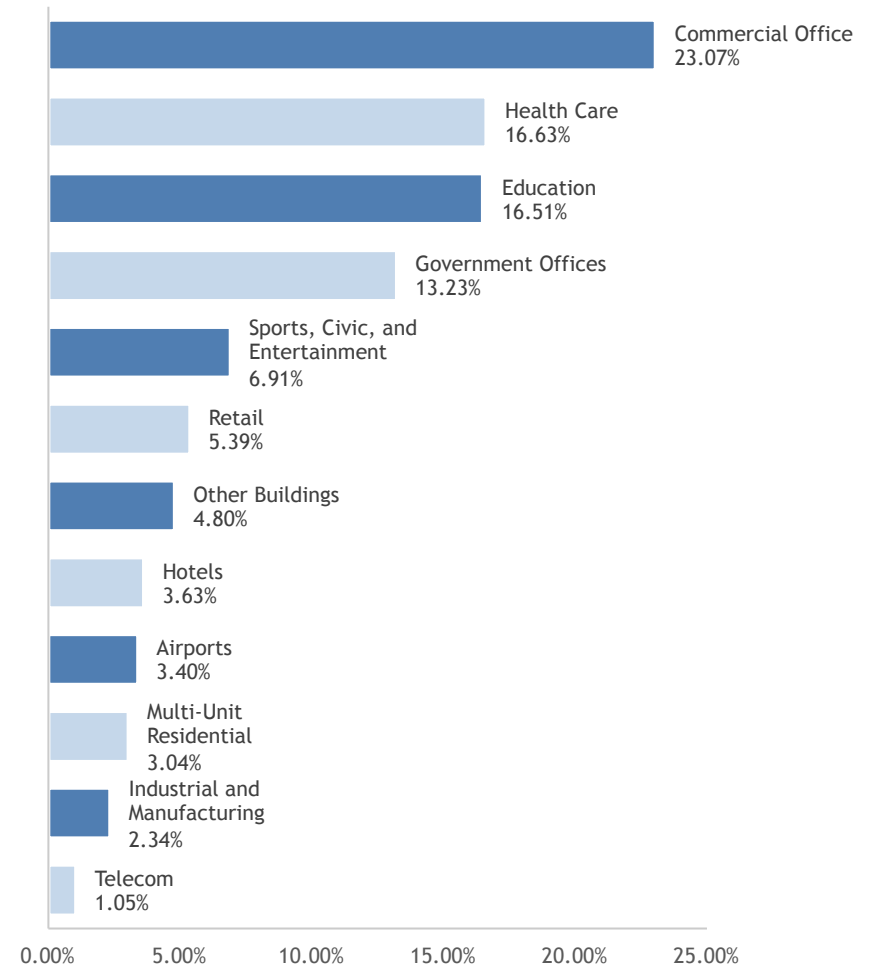
\$5 billion global opportunity

Total Addressable Markets



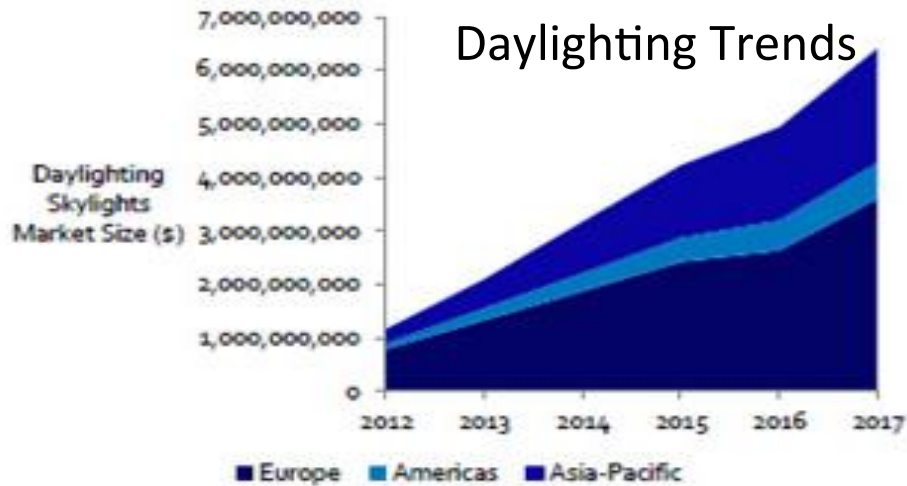
1. 2013 Dodge Construction Green Outlook, McGraw Hill Construction, 2012
2. McKinsey & Company Global Lighting Market Model 2012

Green Building by Markets



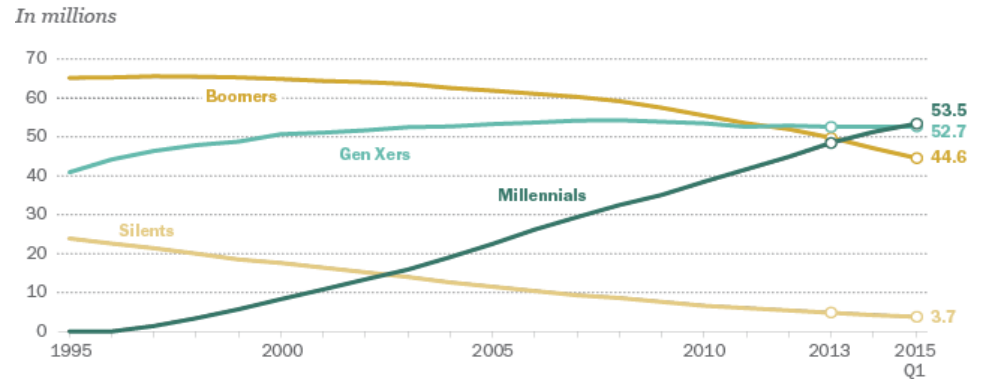
Source: ENR, The top 100 Green Building Design Firms

Market Growth Trends



Source: Lux Research, Inc.
www.luxresearchinc.com

U.S. Labor Force by Generation, 1995-2015



Note: Annual averages plotted 1995-2014. For 2015 the first quarter average of 2015 is shown. Due to data limitations, Silent generation is overestimated from 2008-2015.
Source: Pew Research Center tabulations of monthly 1995-2015 Current Population Surveys, Integrated Public Use Microdata Series (IPUMS)

PEW RESEARCH CENTER

Millennials Demand Daylight
“a demographic shift”



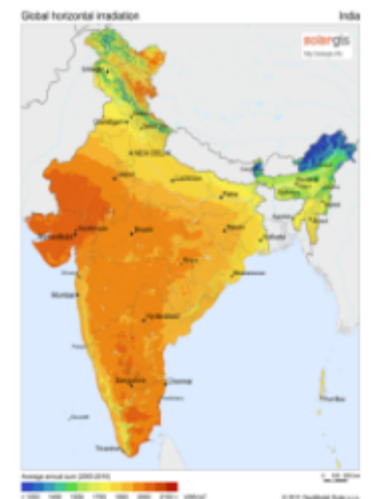
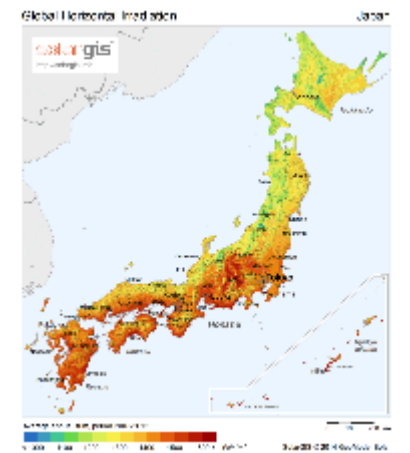
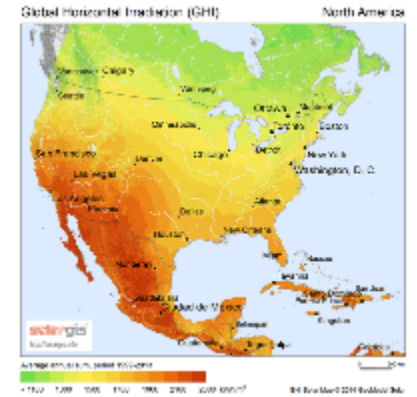
is ready to serve

<http://delos.com/>

As the pioneer of Wellness Real Estate™ and founder of the WELL Building Standard®, Delos is “leading standards” to transform our homes, offices, schools and other indoor environments through placing health and wellness at the center of design and construction decisions.

Large Market, Good Momentum, Competitive

- \$5 Billion Global Daylighting Market
- Already Global Sales with active channel partners
- Opportunity Pipeline >\$30 Million
- Lowest Cost Per Lumen Core Daylighting



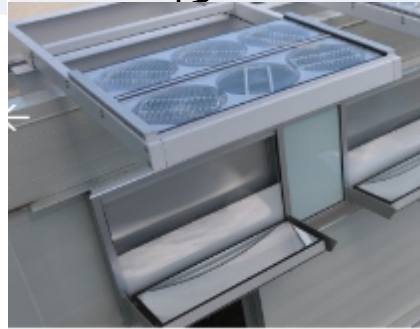
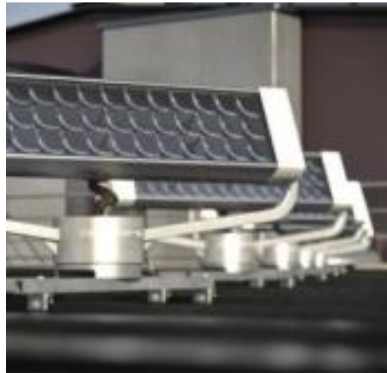


offers






- ✓ Deeper Core
- ✓ Higher Quality

- ✓ More Lumens
- ✓ Lower Cost

| Type | Parans | Sun Central Sunbeamer | Tubular | SUN DOLIER |
|----------------------------------|------------|-----------------------------|------------|--------------------|
| Interior Penetration | 60 ft | 60 ft | 50 ft | 250 ft |
| Lumens | 6,000 | 18,000 (coming soon) | 10,000 | 100-120,000 |
| Light Quality | Down Light | Down Light | Down Light | Indirect |
| Cost / ft ² Installed | \$100 | \$5-10 | \$8-15 | \$8-25 |



Competitive Landscape – Tracking Sunlight Products

| |  SunCentral SunBeamer |  Himawari |  Parans |  Sundolier |  SunPortal |
|--|---|---|--|---|---|
| Price per illuminated sqft | \$ | \$\$\$ | \$\$\$ | \$ | \$\$\$\$ |
| Glare control | ✓ | ✓ | ✓ | ✓ | ✓ |
| Solar heat gain control | ✓ | ✓ | ✓ | ✓ | ✓ |
| Flush mounting with building | ✓ | ✗ | ✗ | ✗ | ✗ |
| Deep penetration (>20m) | ✓ | ✗ | ✗ | ✓✓ | ✓ |
| Lossless transport | ✓ | ✗ | ✗ | ✓ | ✗ |
| High color quality | ✓ | ✗ | ✗ | ✓ | ✓ |
| Collimated light output | ✓ | ✗ | ✗ | ✓ | ✗ |
| Customized light distribution | ✓ | ✗ | ✗ | ✓ | ✓ |
| Direct lighting | ✓ | ✓ | ✓ | ✓ | ✓ |
| Indirect lighting | ✓ | ✗ | ✗ | ✓ | ✗ |
| Wireless controls | ✓ | ✗ | ✗ | ✗ | ✗ |
| On-the-fly beam adjustment | ✓ | ✗ | ✗ | ✗ | ✗ |
| Solar dimming | ✓ | ✗ | ✗ | ✓ | ✗ |
| 100,000+ Lumen Source | ✗ | ✗ | ✗ | ✓ | ✗ |
| One Source Daylights 2,000 ft ² | ✗ | ✗ | ✗ | ✓ | ✗ |

Bringing the two market leaders together, leveraging strengths in Harvesting, Transporting and Distributing natural light will accelerate the delivery of more Healthy High-Performance Buildings.

Channel Partners

- Established Architectural products companies – sell, install, service
 - They know and call on Architects, Owners, Designers
 - They represent specialty products – specialty doors, lights, windows and/or skylights
-
- Maxson & Associates – Charlotte, NC – NC, SC, GA
 - Door Systems – Santa Ana, CA
 - RPC – Houston, TX – TX
 - Lacey Glass – WA
 - Integrated Marketing Concepts, CA/NV
 - LPA – Canada
 - U-VIX– Japan
 - LIGHTEFX – Australia
 - AWX – Philippines

Many are investing in local demonstrations & marketing to accelerate growth.



Dedicated lean team has proven technology for Sundolier & SunCentral achieving >100% growth in 2014/2015

| | | |
|---|---|---|
| CEO (Sundolier) | Peter Novak | Global B2B sales & manufacturing execution |
| VP Sales (SunCentral) | Jack Goertner | SunCentral / Johnson Controls |
| Sales (ADD) | North America #2 & Asia #1 | Add Sales |
| Director Engineering (SunCentral) | Allen Upward | Controls, Optical and Mechanical Engineering |
| Director Tech Services (Sundolier) | David Wittekind | ME Civil Engineering, 12 years product design, project management |
| Engineering & Supply Chain/Service | Greg McIntyre (Sundolier) Peter Friedel (SunCentral) Bob Stone (SunCentral) | Diverse Manufacturing, Engineering and Field Service Experience |
| CFO (Sundolier) | Robert Fenwick-Smith | Global Finance and Operations |
| Marketing (ADD) | Marketing Manager | Experienced Architectural Products Marketing Manager |

Board and Advisors:

Robert Fenwick-Smith – Aravaipa Founder – Sundolier Chairman

Dr. Lorne Whitehead - Founder & CTO SunCentral

Paul Hutton – Director Sustainability Cunningham Group Architects,

Peter Busby – MD Perkins & Will Architects

Others – TBD

Achieved 2015

- ✓ **LEAN** sales, marketing, operations to minimize burn
- ✓ **VALIDATED:**
 - Market – interest, size and pricing
 - Sundolier - 50 installations – VA, Education, Office, Industrial
 - SunCentral – 14 customers – 400 Sunbeamers installed, strong International representatives, excellent marquee customers (Google, Westfield, SAP)
 - Customer Satisfaction – users love the quality daylight
 - Both Technologies – proven commercial designs & margins
 - Sales Competition – no direct competitors

Strategy going forward

Ready to Scale

- Sales:
 - Build direct Sales Force to manage Channel Partners in America and Asia
 - Push sales through Channel Partners
 - Nurture Top Architects
 - Continue to build reference base
- Marketing:
 - Build market awareness – PR and advertising
 - Build strong online presence and lead generation
 - Strengthen Sunbeamer go to market tools - Revit, Luminaires, IES
- Lean Operations:
 - Focused Factory Operations (light assembly only)
 - Larger Batches
 - Finish Value Engineering + contract manufacturing (China / US)
- Maintain IP
 - Sundolier: 1 Issued | 2 Pending
 - SunCentral: 9 issued patents | 16 pending

Qualified Pipeline

\$40M +



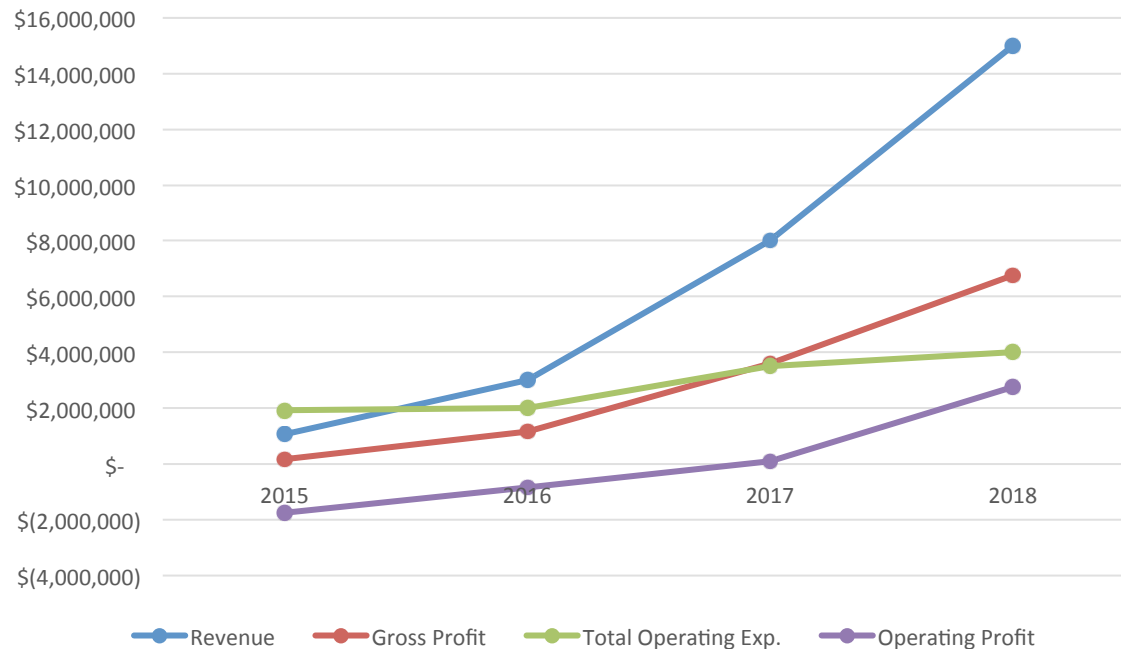
- Over \$40 million in pipeline
- Pipeline includes schools, hospitals, civic centers, multi-family residential, Fortune 500 retailers, office, airports, hotels, gyms, and channel partners.....
- 3 Million in sales forecasted in 2016



SUN CENTRAL is Poised for Growth

| | 2015 | | | 2016 | 2017 | 2018 |
|----------------------|----------------|--------------|----------------|--------------|--------------|---------------|
| | SunCentral | Sundolier | Sum | Merged | Merged | Merged |
| Revenue | \$ 623,955 | \$ 440,430 | \$ 1,064,385 | \$ 3,000,000 | \$ 8,000,000 | \$ 15,000,000 |
| CoGS | \$ 551,992 | \$ 336,995 | \$ 888,987 | \$ 1,650,000 | \$ 4,400,000 | \$ 8,250,000 |
| Gross Profit | \$ 71,963 | \$ 103,435 | \$ 175,398 | \$ 1,150,000 | \$ 3,600,000 | \$ 6,750,000 |
| Gross Margin | 12% | 23% | 16% | 38% | 45% | 45% |
| Total Operating Exp. | \$ 1,424,171 | \$ 505,793 | \$ 1,929,964 | \$ 2,000,000 | \$ 3,500,000 | \$ 4,000,000 |
| Operating Profit | \$ (1,352,208) | \$ (402,358) | \$ (1,754,566) | \$ (850,000) | \$ 100,000 | \$ 2,750,000 |

Consolidated Financials





Seeking \$5 million
Acquire SunCentral and Accelerate growth
Positive earnings in 2018

Use of funds:

- \$2.5 Million to acquire SunCentral
LOI to Purchase SunCentral for 5 Million (2.5M cash + 2.5M in shares)
- \$2.5 Million for growth
 - Sales & Marketing
 - Working Capital
 - Cost Reduction & Product Development

Support Slides SunCentral®

Customers

- Google Kirkland Campus (2015)
- Westfield Santa Anita (2014)
- SAP Labs (2014)
- Campbell Union School District (2014)
- Perkins + Will, San Francisco (2014)
- U-Vix Corporation, Japan (2014)
- LightEFX, Australia (2014)
- Salt Lake County, Utah (2014)
- RIWE, Toronto (2013)
- Canadian Embassy, Berlin (2013)
- Culver City, Los Angeles (2013)
- The Lodge, Los Angeles (2013)
- Lowline, New York (2012)
- Okanagan College (2012)

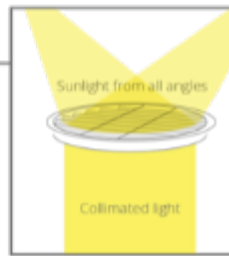


Products - SunBeamers

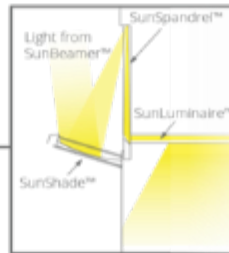


SunBeamers actively track the sun and direct the daylight onto interior features such as plants or sculptures, attracting customers to stay longer in the shopping mall, and making employees healthier and happier

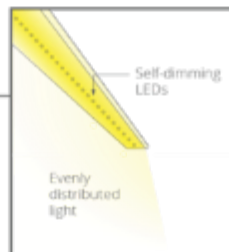
Products - SunCentral System™ Product Family



SunBeamer™



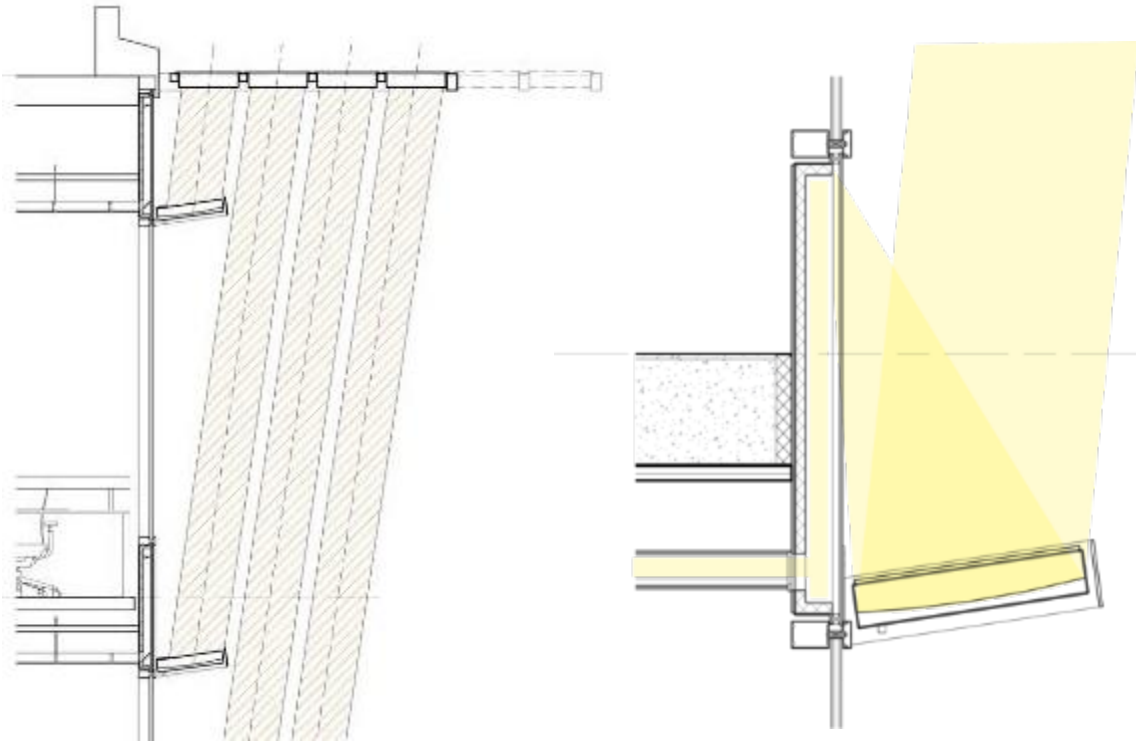
SunSpandrel™
and SunShade™



SunLuminaire™



Products – SunShades & SunSpandrels



SunBeamers also direct the daylight onto SunShades and SunSpandrels for further concentration into SunLuminaires

Products - SunLuminaires



SunLuminaires evenly distribute the daylight deep into the building core to illuminate building interiors with full-spectrum, healthier, happier light

Support Slides Sundolier®

Sundolier®

Core Daylighting Solutions Suite

With Sundolier

Left To Right:

- 2 Floor System
- High Bay Downlighting
- Several Floor Core Daylighting
- Single Story Medium -> Low Bay



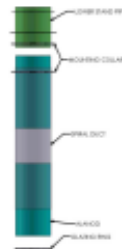
Deep Core Daylighting



Delivering on the Promise of Daylighting™

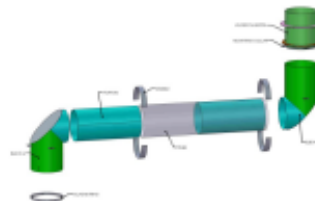
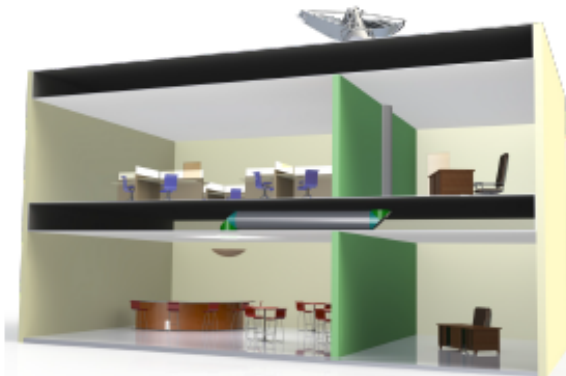
Features:

- 100,000 lumens supply,
- Full Day Daylight,
- 24" (0.6m) roof penetration,
- Daylight 1000 - 5000 ft² (90-450m²)



Deep Vertical:

- +250ft (75m)
- Fire Dampers 1.5 or 3 hours



Add Horizontal

- Run: 60ft (18m)

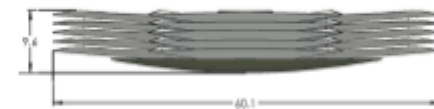
Deep Core Daylighting



Standard and Semi-Custom Fixtures

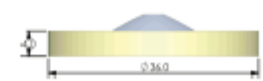
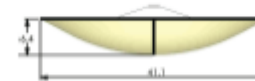
Low Bay

30' Spread - 1.1' Suspension (Indirect Daylighting)



Medium Bay

10' Spread - 1.5' Suspension (Indirect Daylighting)



15' Spread - 2' Suspension (Indirect Daylighting)

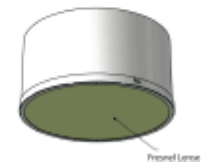


30' Spread - 2.5' Suspension (Indirect Daylighting)



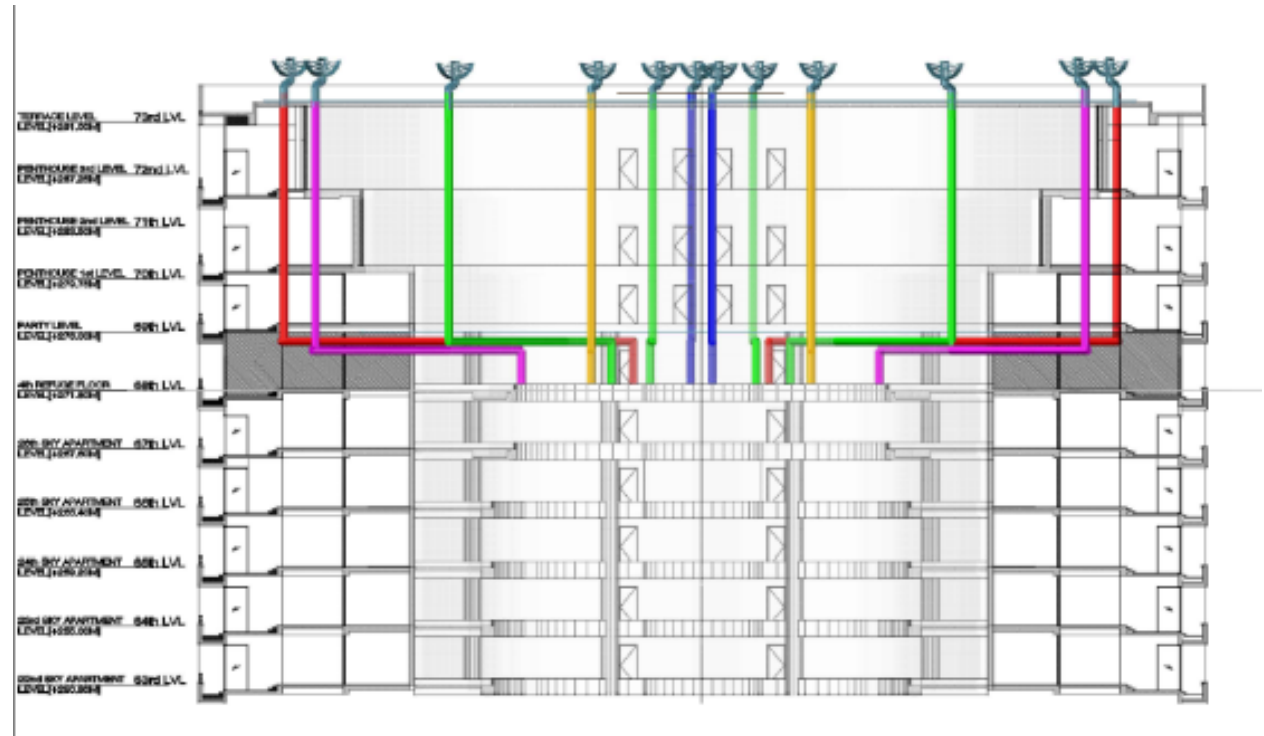
High Bay

Fresnel - 60° Degree Spread (Direct Daylighting)



Mumbai

Leading Lighting Designers innovating with Sundolier to create \$1,000,000 daylighting chandelier

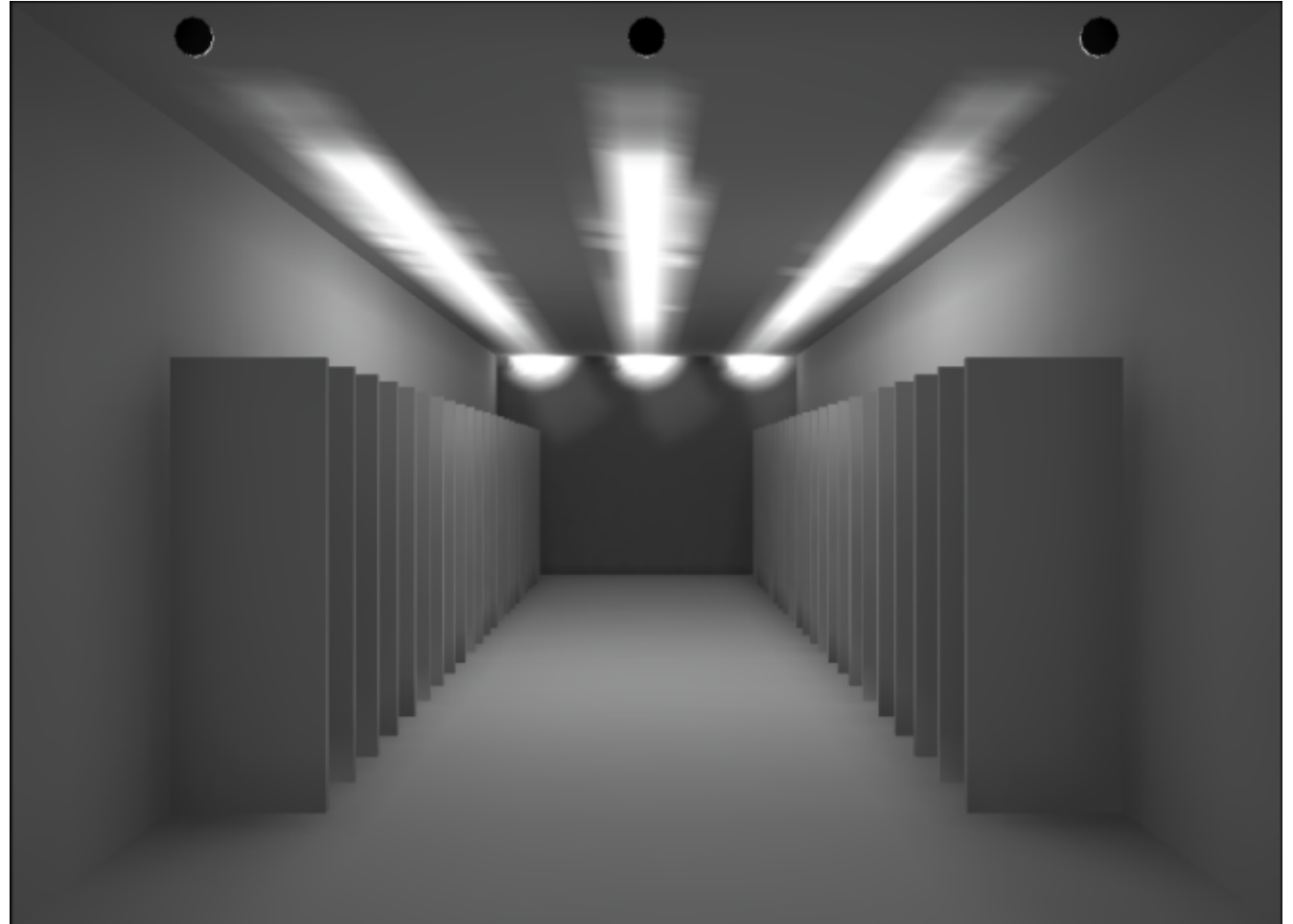
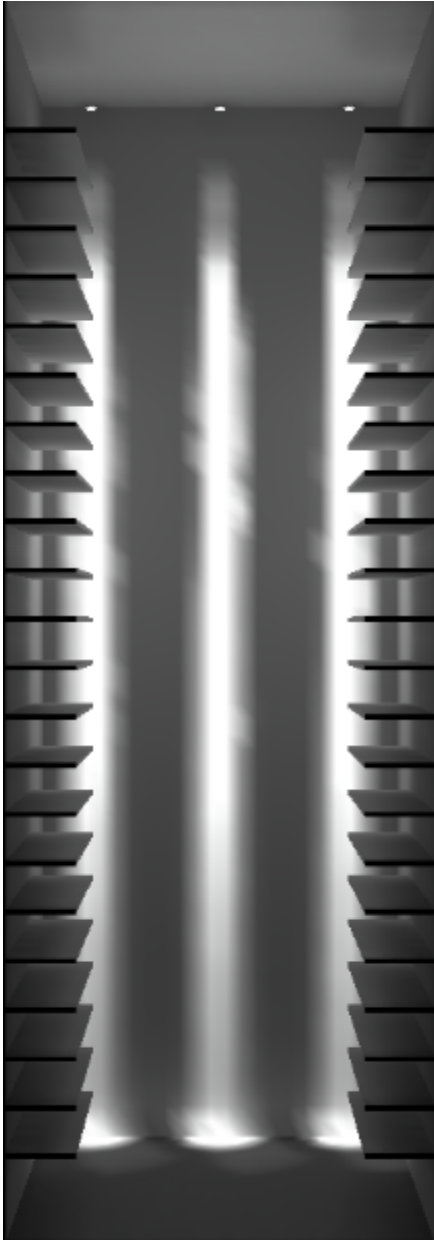


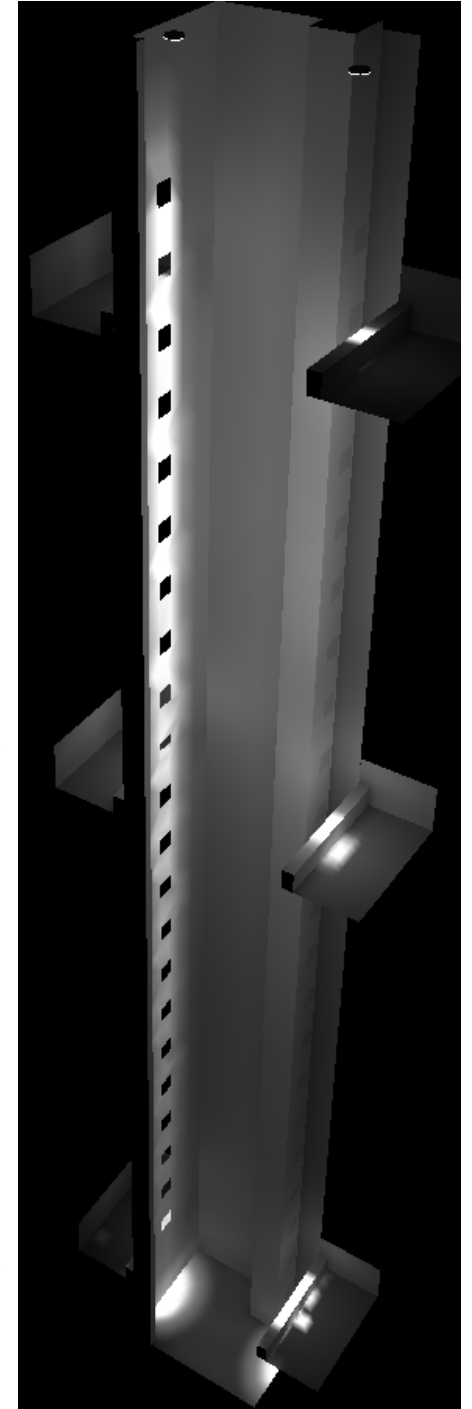
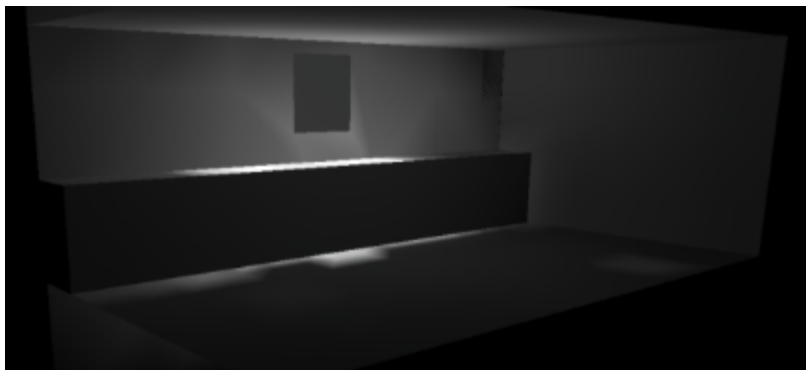
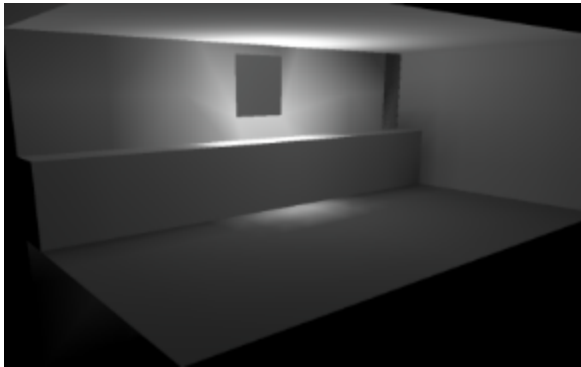
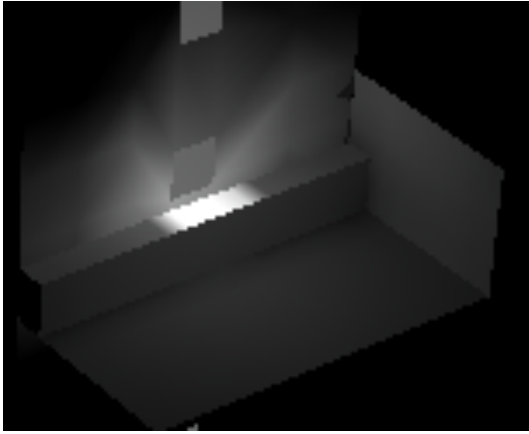
“Will be world’s most advanced and beautiful Daylighting”

Mumbai

6-14 Systems – 160,000 – 380,000

June 12, 2015 – “what is the procedure we need to follow to get this done can you please explain me steps..?” Mita





Convention Center

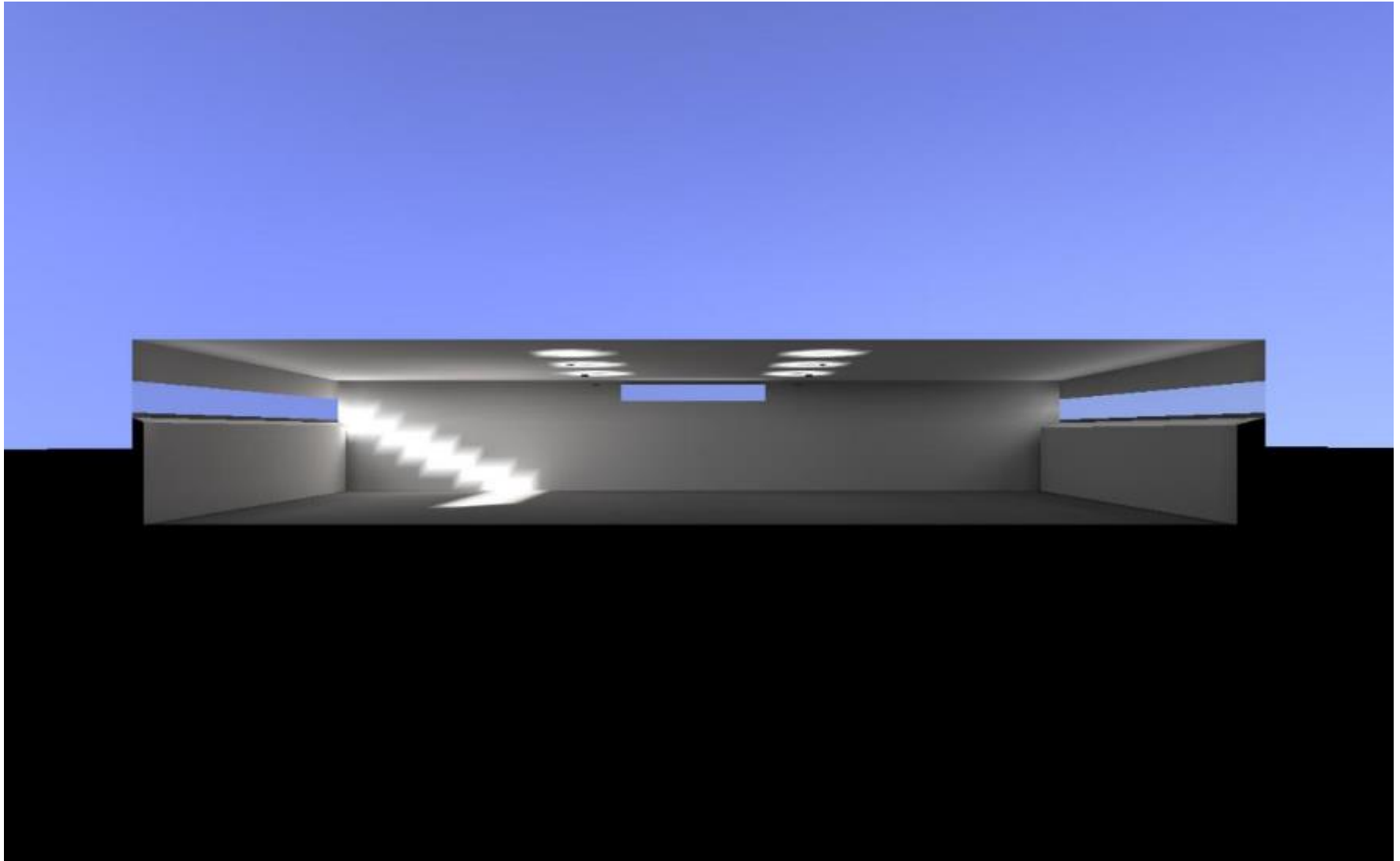


10-12 Sundolier
Down-Light Lens
\$200,000



Wiseburn HighSchool, CA (6)

Gensler Architects



Veterans Administration II

Hallway Daylighting

final recommendations

Tube: Miro Silver 4270

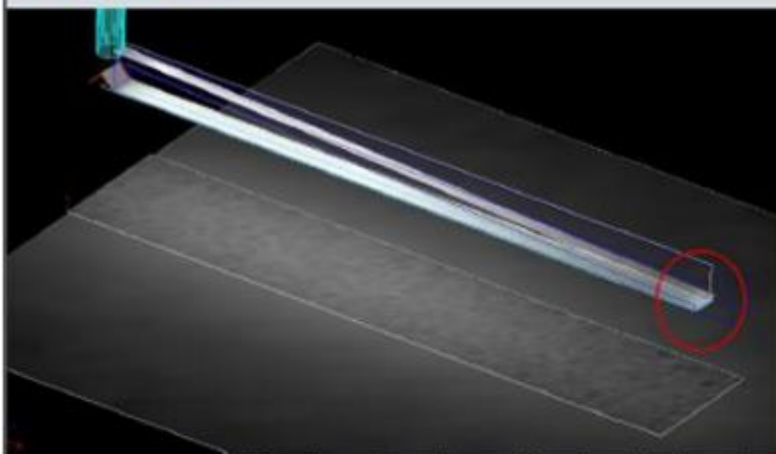
Duct Side Walls: Spraylat Starbrite White paint, or Trilumacoat aluminum sheet, low gloss white

Duct Top: Spraylat Starbrite White paint, or Trilumacoat aluminum sheet, low gloss white

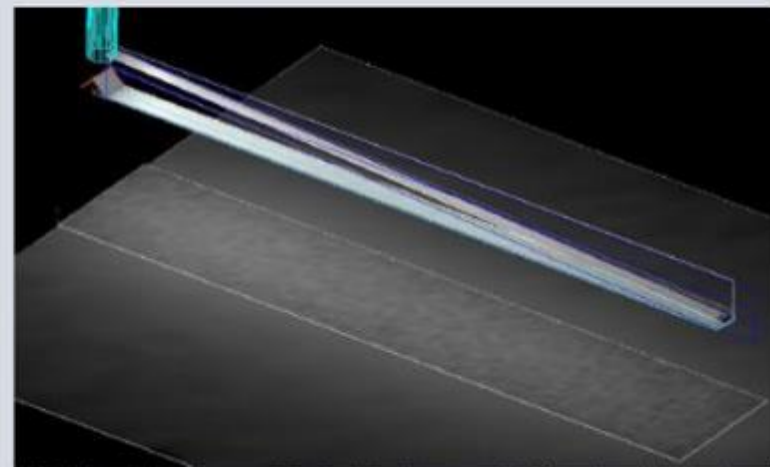
Reflector: Alanod Miro Silver 4270 & Alanod Miro Silver 6850

Ceiling Diffuser: Bayer 0.118" LW3 Polycarbonate sheet

Current duct



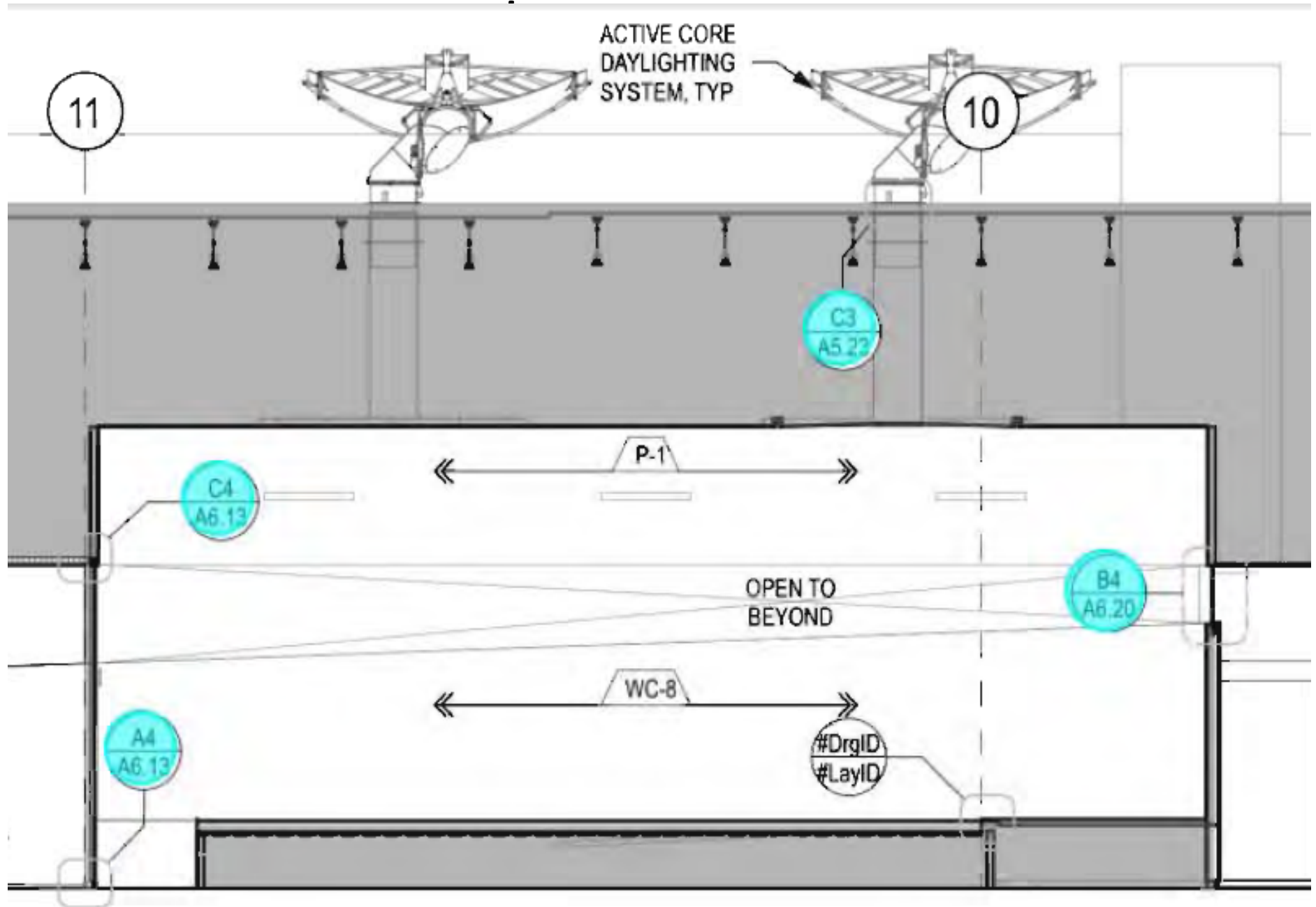
Taper to edge



3 June 2015

Light levels are based on a 40° solar altitude angle providing 8263 fc of direct normal solar illuminance. At 10° solar altitude, the light levels would be 60% less, at 90° solar altitude the light levels would be 12% more.

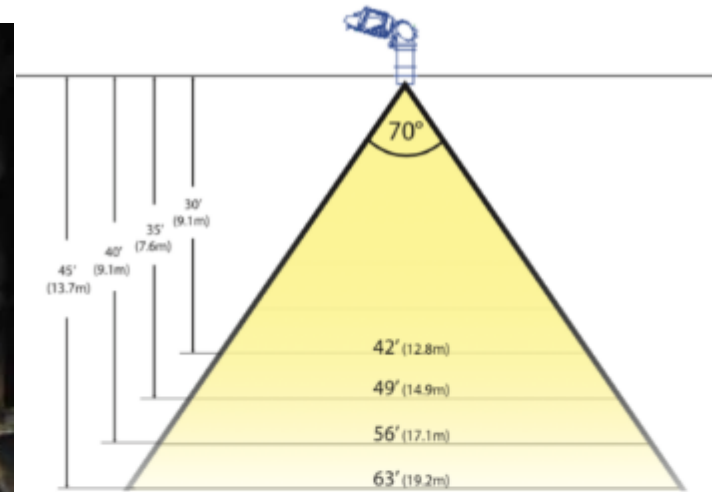
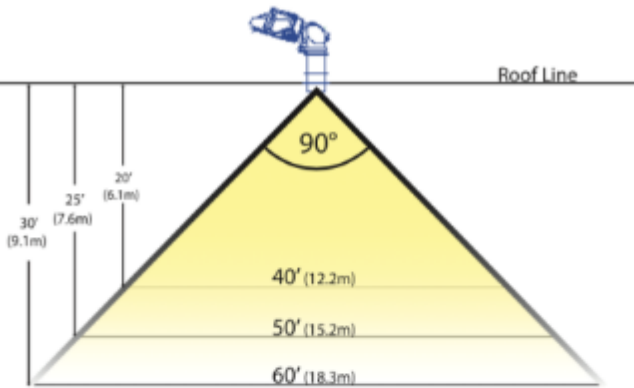
Flotek, TX – Interior Atrium (2)



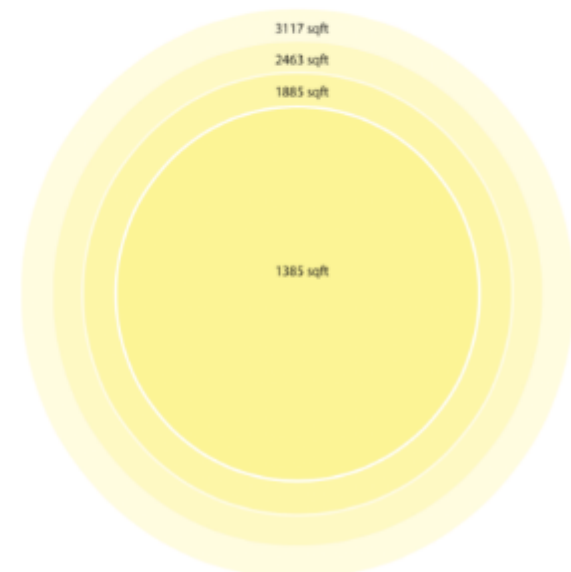
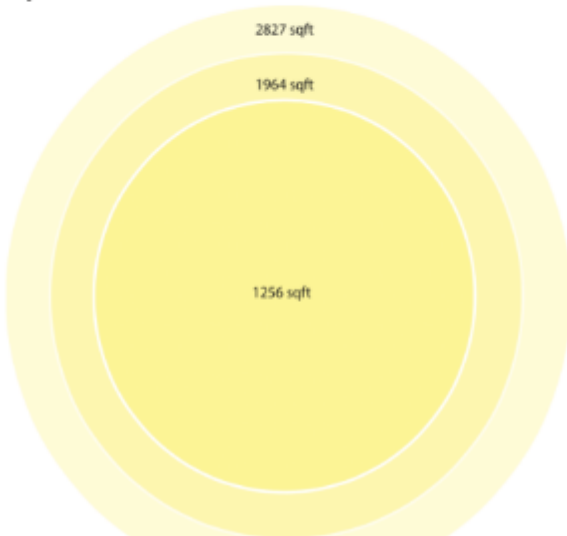
2016 NEW Luminaire Products

90°, 80°, 70°, 60° LENS for Industry & Atriums

15°, 10°, 5° for multi-family residential and high rise Atriums
 India: Open to Sky, US: Mixed Use – i.e. Silicon Valley



Spreads on floor



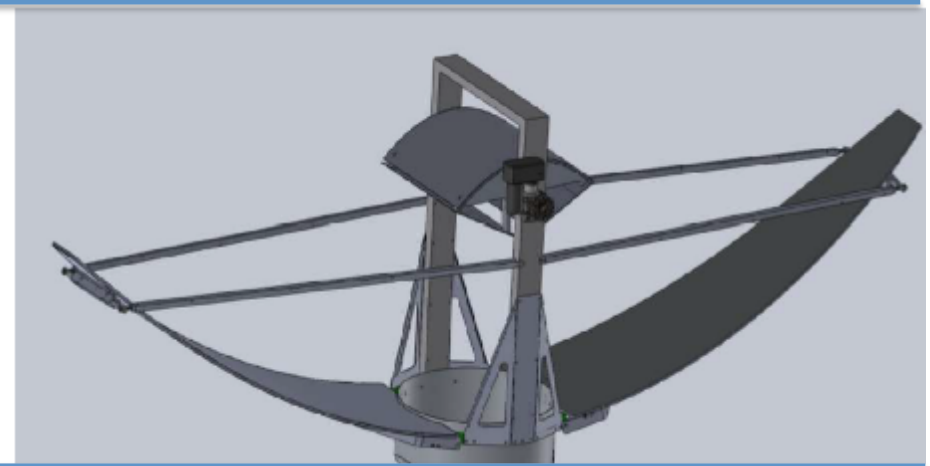
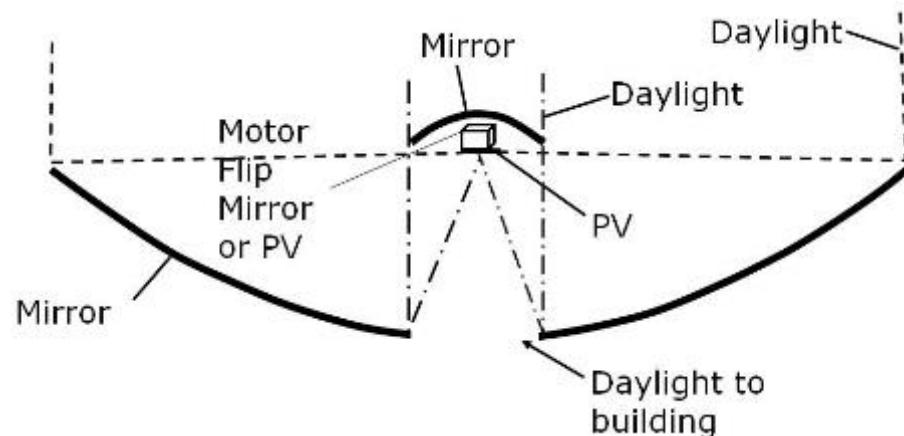
Sundolier Future = + Power

+ DayLighting

- most efficient light
- healthiest light
- efficient access to light powered by the sun.

+ **POWER** – next generation system – **OFF-GRID LIGHTING**

- Patent pending on “**flipper**” – daylight and/or power filing in US, Europe, India, China, Japan



How It Works

- **Secondary flips 180 degrees providing two modes.**
- **Mode 1 is current secondary mirror that reflects light down into the building**
- **Mode 2 is a Concentrating PV (5 to 40 suns depending on design)**
- **Light when space occupied, otherwise power generation**