

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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GENERATION BRANDS LLC

Petitioner

v.

LIGHTING SCIENCE GROUP CORP.

Patent Owner

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IPR Trial No.: To Be Assigned

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**DECLARATION OF DARYL SODERMAN IN SUPPORT OF  
PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO.  
8,201,968**

I, Daryl Soderman, declare as follows:

1. I am the co-founder and President of Silescent Corporation, a Florida-based lighting company that designs, manufactures and sells lighting fixtures, including low-profile luminaires with light-emitting diode ("LED") light sources. I am over the age of 18, am fully competent to make this affidavit, and make this declaration on personal knowledge.

2. Silescent has designed, manufactured, and sold LED lighting fixtures since 2002.

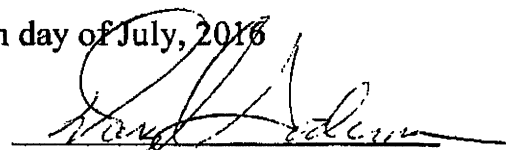
3. Attached as Exhibit 1 is a true and accurate copy of the Silescent S100 LP2 Product Sheet and Installation Guide. Both were made available to the public at least as early as June 2009.

4. As part of our business, we distributed such installation guides and specification sheets, including Exhibit 1, to customers, typically along with the product or product samples.

5. I note that the Silescent S100 LP2 was designed to be powered by AC line voltage. It included an LED driver with an AC/DC power conditioner located in the box on top of the light fixture base, as shown in Figures 1 and 3 of the LP2 Product Sheet. Per the documents, the power conditioner fit within "Any UL Approved Junction Box," including a standard 4-inch junction box or equivalent (or 4" can).

6. I am a joint inventor of U.S. Patent No. 7,980,736 filed November 13, 2007, and issued July 19, 2011 ('736 Patent). The Silescent S100 LP2 is a commercial embodiment of the '736 Patent.

Signed under the penalty of perjury this 15th day of July, 2016

  
Daryl Soderman

# EXHIBIT 1

# SILESCENT® S100LP2

## Light

SUPER EFFICIENT, SOLID STATE LIGHTING

## Line Voltage Phase Control



### About

Use the S100LP2 Line Voltage LED down light in commercial/office, industrial, residential, institutional and government applications where down lighting of any type is required. Its' high lumen output is suited in/for ceiling applications where you would normally use/specify 5", 6" or even 8" down lights. Use to replace existing inefficient fixtures having an outer diameter up to 10 inches. The S100LP2 is available in 5 lamp temperatures from warm white (2700K) to cool white (5000K). Combined with multiple lensing options allows the designer/specifier to get just the right volume and color of light exactly where they need it. Used 12 hours per day the S100LP2 has an approximate lifetime of 22+ years. Multiple patents secured.

### Features & Benefits

- High efficacy - Low power consumption with high lumen output
- Ease of installation – Reduces labor & wiring costs
- Significantly lower ongoing MRO costs – eliminates replacing lamps and ballasts for years
- Phase Control dimmable – Compatible with most phase control dimming dim switches
- Serial number control – assures (should a failure happen) a replacement light can be matched to existing installed lights.
- Long 100,000 hour lamp life (w/ only 30% lumen degradation over lifetime)
- Ultra low plenum – Fixture height is just ¾"
- Safer - Instant on/off – no warm-up time, even in cold weather
- Manufactured in USA, exceeds NAFTA domestic product requirements with >80% domestic content
- Green is not just a word at Silescent, we live and breathe it:
- All fixtures are manufactured with up to with up to 80% recycled content and RoHS compliant
- Contain no mercury
- Give off no UV or IR radiation
- Designed to have the smallest environmental footprint – Ship 5 S100LP2's to one CFL down light
- Shipped in 100% recycled packaging
- Robust thermal management – Protects luminaire for both sustained and lifetime performance - reduces heat impact on HVAC
- Advanced Intelligent Driver (AID) – is designed as an integral component and protects both led and driver from failure
- Virtually unlimited aesthetic options – combine thermal rings and lens types to get the look and feel you need
- Hi CRI meets Energy Star Criteria for luminaries

### Applications (New Construction or Remodel)

Banks, Schools, Auditoriums, Universities, Retail Stores, Awning / Eves & Canopies, Building Entrances, Hospitality, Hallways, Lobbies, Condos, Co-Ops and Apartment Complexes, Offices, Conference Rooms, Restaurants, Museums, Elevators, Soffits & Eves, Cruise Ships, General Marine, Wall Washing and Grazing as well Low Plenum, and High Ceiling Applications.



Suitable for covered ceiling mount only.

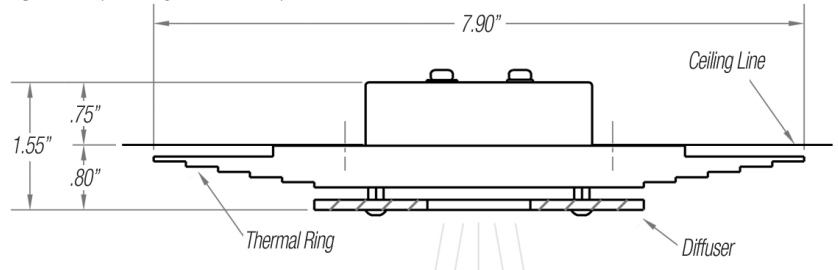
**Silescent® S100 LP2 Performance**

**CCT & Relative Performance**

CCT	27K (2700K)	30K (3000K)	35K (3500K)	40K (4000K)	50K (5000K)
<b>WATTAGE</b>	15	15	15	15	15
<b>LUMENS</b>	650	675	700	750	900
<b>EFFICACY</b>	43	45	47	50	60
<b>(COLOR RENDERING INDEX: 80 CRI)</b>					
<b>POWER FACTOR ALL KELVINS: 0.91</b>					

**S100 LP2 - Ultra Low Profile Light and Fixture**

Figure 1 (Drawing Not to Scale)



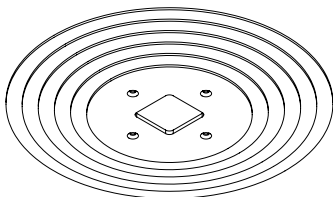
**Thermal Ring Styles**

The Silescent® S100 LP2 Lights have optional thermal rings to present aesthetic choices in both shapes and finishes. Allowing the same efficient benefits throughout your project with a different look where

desired. Additionally, with the illustrated versions shown here you can order custom shapes and finishes as well. Contact your lighting distributor for details.

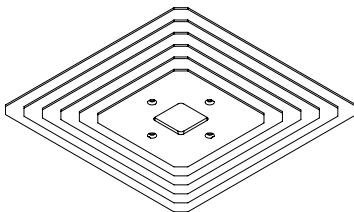
**Round - 8 Inch**

Style Code "S01" - Modular  
Style Code "N01" - Integrated



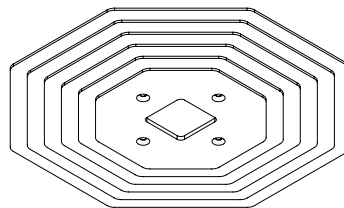
**Square - 8 Inch**

Style Code "S02" - Modular  
Style Code "N02" - Integrated



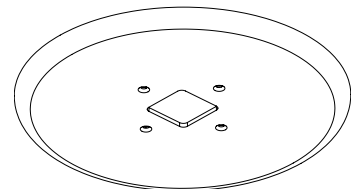
**Octagonal - 8 Inch**

Style Code "S03" - Modular  
Style Code "N03" - Integrated



**Dish - 8 Inch**

Style Code "S04" - Modular  
Style Code "N04" - Integrated



**Finish Options**

Style Code "C01" - Powder Coat, White (Standard Finish); "C02" - Powder Coat, Beige (Special Order Optional Finish); "Cxx" Other colors available by Special Order.  
Style Code "Pxx" Plated, Options include: Bright Polished Gold, Bright Polished Silver, Anodized Matte Gold or Silver

**Electrical Information**

Operating temperature: -40°C to +75°C  
Operating Voltage (Vin): 103.5 - 126.5 VAC  
Nominal Voltage (Vin): 115 VAC  
Max. Current Draw: .145A @ 103.5 VAC  
Ambient Temp.: <35°C

**Manufacturer's Information**

Rated Life: 100,000 Hours  
Warranty: 5 Years

**Submit Orders to:**

**Silescent® Lighting Corporation** 954.766.8448  
1417 SW 1st Avenue 877.766.8448  
Fort Lauderdale, FL 33315 Fax: 954.206.0071  
www.silescent.com

Note: Specifications and dimensions subject to change without notice.

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