

# THE SuperBeam LED

*Atrium/Lobby/Auditorium*

**5" Recessed or 8" Cylinder**

**Super** long beam projection, 18' to 22'

**Super** low brightness & glare free

**Super** smooth beam

**Super** maintenance free

**Super** cool operation

**Super** comfortable illuminated space

**Super** efficient

**Super high performance LED . . .**

**Only 53 watts effective equivalent 4,100 lumen package\* within collector assembly**

**Peachtree**  
LIGHTING

## The SuperBeam LED DOWNLIGHT

### Thermal Dissipation System

Optimally designed heat sink ensures cool operation and long life of the light engine and support components.

### LED Light Engine

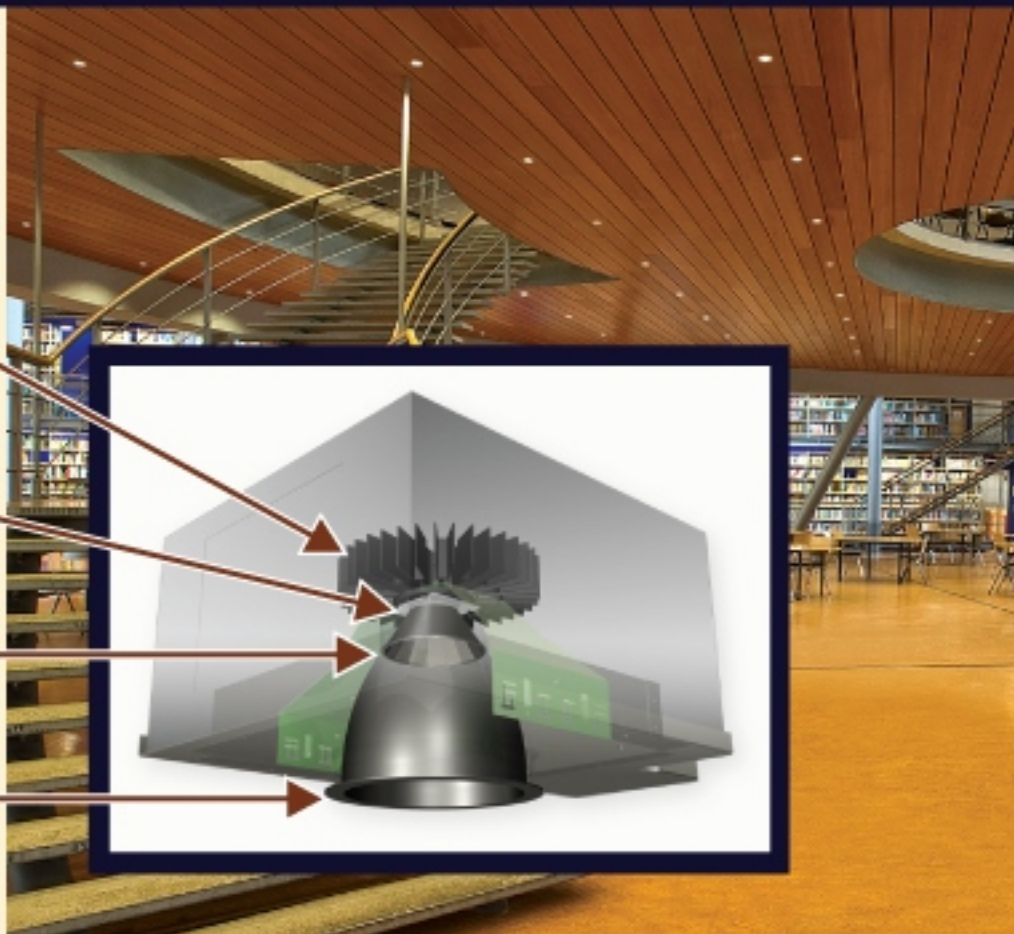
53 watts effective equivalent 4100 lumen package. Over 50,000 hours life.

### Inner Reflecting Collector

Pools, amplifies and distributes beautiful light with no striations.

### Outer Reflector

Diminutive 5" opening provides excellent cutoff and focuses the beam producing an incredible throw.



## The SuperBeam LED CYLINDER

Smooth extruded aluminum outer body with a superb finish and no external mounting hardware.

### Thermal Dissipation System

### LED Light Engine

### Inner Reflecting Collector

### Outer Reflector





LEDs have now been developed to a point they can be used as a logical alternative to other light sources. A perfect example is high ceiling applications that typically used quartz, HID and in some cases, multi-lamp compact fluorescent systems with large apertures.

*Traditional systems necessitated tradeoffs. If you needed dimming, good color and instant-on, then you had to give up energy efficiency and lamp life. If you needed energy efficiency and long lamp life, then you had to add an expensive back up system to compensate for the lack of instant-on. Often, the frequent changing of the lamps involve massive disruption; an expensive articulating man lift, the cost of seat removal, or perhaps a high dollar cat-walk above the ceiling.*

The SuperBeam LED combines all of the desired benefits in one package: A pleasing warm color (3000k standard), instant on, 22' plus beam projection, a discreet 5" aperture with extra sharp cut off, very low glare and smooth beam pattern, dimming, very low energy (53 watts) and extremely long lamp life (70% lumen maintenance) at an amazing 50,000 hrs. In addition, LED fixtures are virtually maintenance-free which translates into thousands of dollars of direct savings for the end user. An added benefit of LED technology is limited infrared and no ultraviolet emission, perfect for the preservation of artwork and valuable wall fabrics.

The key to long life is providing a well designed thermal path to transfer heat away from the solid state luminous element. Keeping the LED junction temperature low insures long life of the LED source.



*Early examples of LED downlights seem to be little more than a new lighting element stuffed into some standard off-the-shelf fixture. The result is a fixture that is "glary" and "harsh" at any normal viewing angle, which brought about complaints of headaches and eye strain.*

All Peachtree luminaires are designed to be visually comfortable with superior optical control. The SuperBeams aperture is 5" resulting in a very clean uncluttered ceiling with an extra sharp cutoff (@ 30°). The deep, no-glare distribution reflector and a highly efficient, polished and faceted top collector reflector creates an unparalleled, optimized illumination performance.

**4100 Lumen Package**  
CONE OF LIGHT



**3000 Lumen Package**  
CONE OF LIGHT



## HOW TO SPECIFY

EXAMPLE:  
(Downlight)

**PSB - 550 - SH - F**

Series

Reflector Options

EXAMPLE:  
(Cylinder)

**PCSB - 550 - SH - PND - F**

Series

Reflector Mounting Options

### DOWNLIGHT

#### SERIES

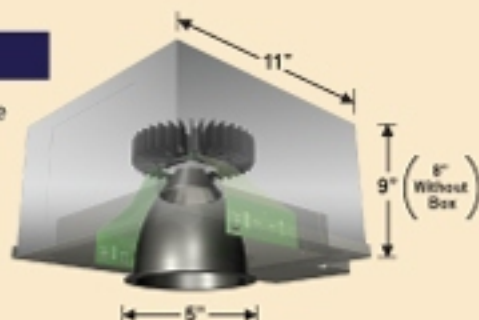
- PSB Peachtree Super Beam Downlight

#### REFLECTOR

- SH Soft Haze  
 C Clear

#### OPTIONS

- 45K 4500K Color Temperature (3000K Standard)  
 DIMLED Dimming Driver\*\*  
 F Fusing  
 TR-W Trim Ring White  
 TA Top Access  
 BOH Box-Outer Housing



### CYLINDER

#### SERIES

- PCSB Peachtree Super Beam Cylinder

#### OPTIONS

- 3K 3000K Color Temperature (4500K Standard w/Cylinder Only)  
 DIMLED Dimming Driver\*\*  
 F Fusing  
 Cat. No. \_\_\_\_\_

#### MOUNTING

- PND 24" Pendant w/swivel canopy



#### Three Year limited Warranty

Unlike traditional light sources, LED's do not tend to fail catastrophically. Peachtree Lighting warrants the LED module and driver assembly to be free of defects in material or workmanship for a period of three years from the date of purchase, and agrees to repair or replace at the companies option, the "failed" component. Peachtree will replace a defective element without charge for labor. This warranty does not cover labor to remove or replace the fixture back into the ceiling. This warranty excludes defects resulting from improper installation, acts of God, fire, vandalism or civil disturbances. We must be notified in writing within 60 days of component failure. An RGA must be requested and a sample must be sent to Peachtree Lighting for test and evaluation within the subsequent 30 days. The RGA request must include proof of purchase. "Failure" is considered a non-operating LED. We reserve the right to change the standard warranty period without prior written notice, without incurring obligation.

#### THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES.

The semiconductor manufacturing process, like any other temp-manufacturing process, brings about variations in output to the right and to the left of mid point of the standard, regarding color and other attributes. Peachtree Lighting has investigated and considered most all of the available procedures to control visible color shift in solid state lighting. At this time, in our opinion, "binning" (grouping similar appearing chip modules) seems to be the most consistent and reliable method. Peachtree products are color controlled using standard ANSI binning, which will be suitable for most general Architectural installations. When necessary, because of the critical color application, please contact the factory for tighter binning including a "single 3 step MacAdam ellipse".

#### \* Luminous Flux and Delivered Lumens

At the heart of every white LED is a semiconductor chip made of nitride-based materials. The chip is positioned on top of the cathode lead. Applying volts across this device makes the chip emit blue light. Passing the light through a yellow phosphor yields white light. The LED is therefore a relatively small device emitting visible light either from the sides, bottom or both sides and bottom depending upon the very small lens and/or small reflector incorporated onto the chip assembly. Calculating light out put should rightly be conducted considering the whole assembly.

You can not directly compare LED's and incandescent because the spectra are different. LED efficiency is measured with short burst of power. A 100% efficient incandescent would put out about 200 lumens per watt. A typical white LED is deficient in some of the longer and also shorter wavelengths to which the eye isn't very sensitive. Use the corresponding figure for a 100% efficient LED is around 325 lumens per watt! There are differences between what the eye sees and the meters read. LED's are different. IESNA has developed special LED testing methods. Peachtree Lighting data is in accordance with LM-79-08 & LM-80-08. Please use caution when comparing to other lamp source data.

\*\*Consult factory for availability and exact requirements.