

# Bryant College and QL Lamps

A • C A S E • S T U D Y

Philips Lighting Company's QL induction lamps are perfect solutions for indoor and outdoor applications in Bryant College's "New Century Campus Plan for Excellence," the title of their extensive reconstruction effort.

Founded as a business college in 1863, the college had been located on the east side of Providence, RI until 1970, when enrollment outgrew its classrooms.

Moving from its cramped, traditional campus 12 miles northwest to its current location in Smithfield, RI, Bryant built a new, modern 392-acre vehicular campus in the early 70s. To meet the changing needs of students and business, Bryant launched its current New Century Campus Plan in 2000. The only vestige of its past among the ultra-modern buildings is the Bryant College Archway, which was moved intact from its old location. To this day, students do not walk through the Archway until commencement. Tradition says that if they do, they won't graduate.

The New Century Campus Plan transformed Bryant from a vehicular to a pedestrian campus with the creation of the Hassenfeld Common, lit from dusk to dawn with 165-watt Philips QL induction lamps. In addition, the atrium reception area of the renovated Unistructure is lit 24/7 by 85-watt Philips QL induction lamps. And finally, 85-watt Philips QL induction lamps will be used in the main corridor of the George E. Bello Center for Information and Technology, which is currently under construction.



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Photography  
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***The Bryant College Archway and 330,000 square foot Unistructure at sunrise. Philips Lighting Company's QL Induction Lamps light the pathways and indoor atrium reception area.***

# PHILIPS

## PHILIPS LIGHTING MEETS THE CHALLENGE

Wowing new applicants with a striking first impression was Bryant's primary objective when designing its new admissions suite and office complex in the Unistructure, a 330,000 square foot building housing administration and faculty offices, student reception and all classrooms. This was achieved by creating a magnificent two-story atrium lobby with a skylight dome, textured walls, high-end finishes, terrazzo floors and a black granite sculptured fountain.

Adjacent to the skylight, an overlook was built to view the second floor level requiring illumination of the floor below. To light this space Philips Lighting Company's 85-watt QL Induction Lamps were the lamps of choice.

Because of the 24-foot high ceiling and inaccessibility of the recessed fixtures, the maintenance factor was key for Bryant College Facilities Engineer Bill Gilmore. "The QL System is ideal for our upscale atrium application because it is virtually maintenance free and produces high quality light," says Gilmore. "The atrium lamps, which burn 24/7, will last 11 years and save 90-watts compared to 175-watt metal halide sources over their 100,000-hour life. The maintenance and energy savings alone reduce our lifetime total cost of ownership by \$1,977 per lamp\*." (See adjacent page)

QL's lighting quality was a main consideration for Bryant College Architect Peter Brissette. This requirement eliminated the 175-watt metal halide option due to color shift and ballast hum issues. "It's a challenging space to light," he explains. "The huge skylit dome floods the space with natural ambient light. We needed a quiet source to match the natural light and highlight the upscale surroundings. The QL system's crisp white light and high CRI enhance the furnishings and textures and show people off to their best advantage."



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Photo supplied by Bill Gilmore, Bryant College

**QL is the ultimate solution providing beautiful white light and much longer life.**

Bill Gilmore

Bryant College Facilities Engineer

**P**hilips QL Lamps also light Hassenfeld Common, Bryant's newly-established campus quad. Custom-made post-top fixtures with 165-watt QL lamps provide radiant, white light on the main path leading to the admissions suite and other key walkways.

"We standardized HPS for Bryant's outdoor lighting but it didn't provide the sparkle and glitz of metal halide," Gilmore explains. "So we looked into 250-watt metal halide lamps. But with one-tenth the life, higher wattage and color shift issues, the lifetime cost analysis revealed a \$1,927\* comparable savings *per unit*. QL is the ultimate solution providing beautiful white light and much longer life. Burning from dusk until dawn, the outdoor lamps will last 22 years and remain stable in very cold temperatures, both critical features due to our brutal New England winters."

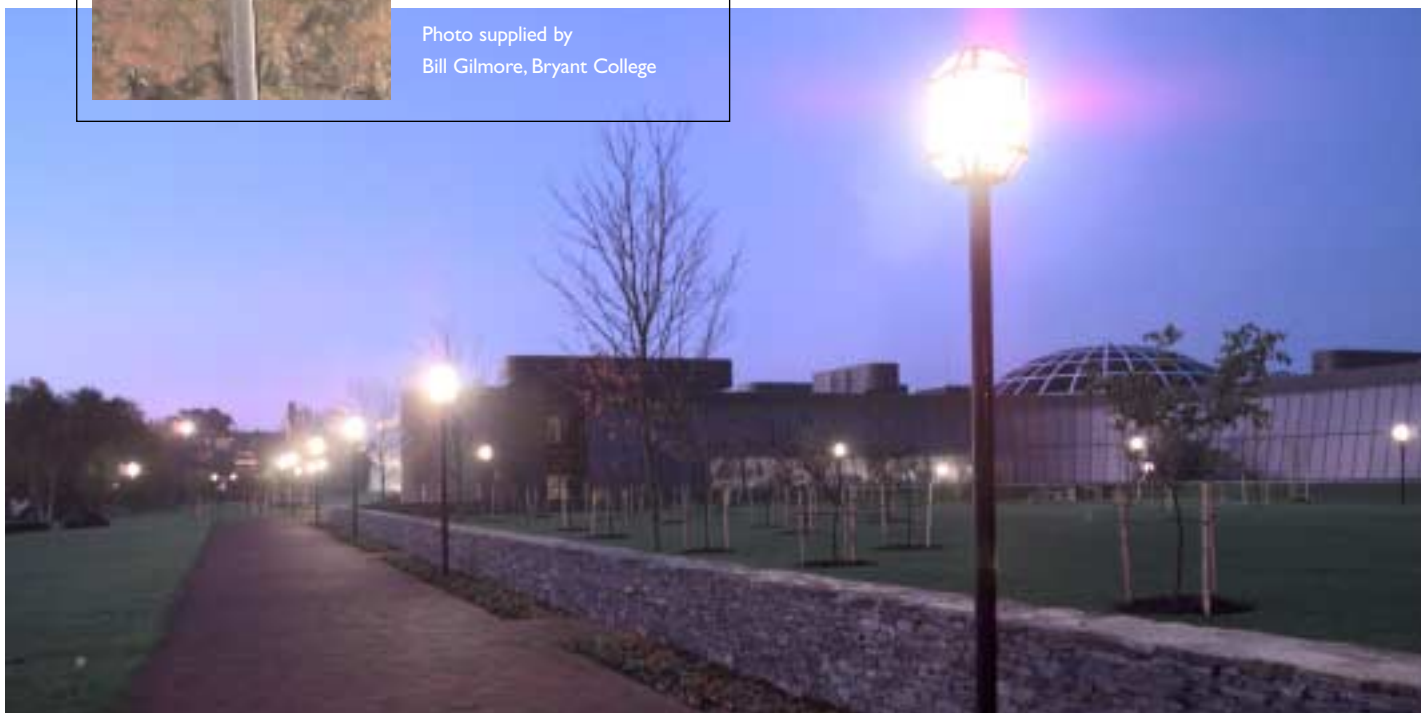


A single fixture is highlighted against a magnificent red oak in the New England autumn. Fixtures were custom made by New Stamp Lighting of North Easton, MA.

Photo supplied by  
Bill Gilmore, Bryant College

***Bryant calculates that the QL system reduces its lifetime total cost of ownership by \$1,977 per lamp in the atrium and by \$1,927 per lamp on the quad\****

\* Bryant's Total Cost Of Ownership (TCOO<sup>®</sup>) calculation includes purchase price, energy savings at 10¢/KWH and maintenance costs of an 85-watt QL lamp versus a 175-watt metal halide lamp burning 24/7 in the atrium; and the 165-watt QL lamp versus the 250-watt metal halide burning dusk until dawn on the quad. The calculation excludes installation costs, eliminating the additional installation savings gained from not having to set up an auxiliary emergency re-strike system.



**Hassenfeld Common at dawn illuminated with 165-watt QL Induction Lamps.** © Josh Edenbaum Photography and Digital Imaging

Another factor that Bryant considered was QL's instant re-strike feature. By omitting extra wiring and fixture modification costs for an emergency quartz back-up system, the QL system reduced installation costs significantly (also a factor in the atrium). Now that they're up, these energy-efficient lamps illuminate Bryant's beautiful new campus quad, providing exquisite, high quality, white light.

Philips 85-watt QL lamps will also grace the main corridor of the George E. Bello Center for Information and Technology, Bryant's new business library, now under construction. In custom circular pendant fixtures by Winona Lighting, four Philips 85-watt QL lamps will be used as uplights in conjunction with four Philips 30-watt PAR 20 MasterColor<sup>®</sup> Metal halide lamps, which will be used as downlights.

The multiple benefits of Philips QL induction lamps are exceeding Bryant's expectations. "People tend to focus on purchase price and energy costs without taking maintenance and replacement disruptions into account," says Gilmore. "In terms of savings, convenience, instant re-strike, operating stability and superior lighting quality, it's a system that's invisible to the public because it works so well on all levels."

## BENEFITS OF QL INDUCTION LAMPS

- Ultra-Long Life**
  - 100,000 hour rated life\*
  - Perfect for hard-to-reach applications
- Low Total Cost Of Ownership (TCOO®)**
  - Reduced energy and maintenance costs
- Crisp White Light**
  - Choice of 3000°K or 4000°K color temperatures
- Outstanding Color Performance**
  - No color shift over lamp life
  - High 80+ Color Rendering
- High reliability - Instant Hot and Cold Start-Up and Re-Start**
- Stable Light Output Over a Wide Range of Temperatures and Voltage Fluctuations**
- High Efficacy**
  - 63 LPW for the 55-watt system (3500 lumens)
  - 70 LPW for the 85-watt system (6,000 lumens)
  - 72 LPW for the 165-watt system (12,000 lumens)
- Electrodeless Construction**



\*Based on 11 hours usage per day, 7 days per week.