

CASE STUDY | THE PAWTUCKET RIVER BRIDGE



\$81 MILLION BRIDGE REPLACEMENT PROJECT

**2013 AIA Honor Award for
Urban Design**

**2014 Illuminating Engineering
Society Award of Merit**

Project partners include: the Rhode Island Department of Transportation, Northeast Collaborative Architects, Commonwealth Engineers & Consultants, Inc., Ventrone Architecture, Abernathy Lighting Design and the Pawtucket Mayor's Bridge Design Committee.

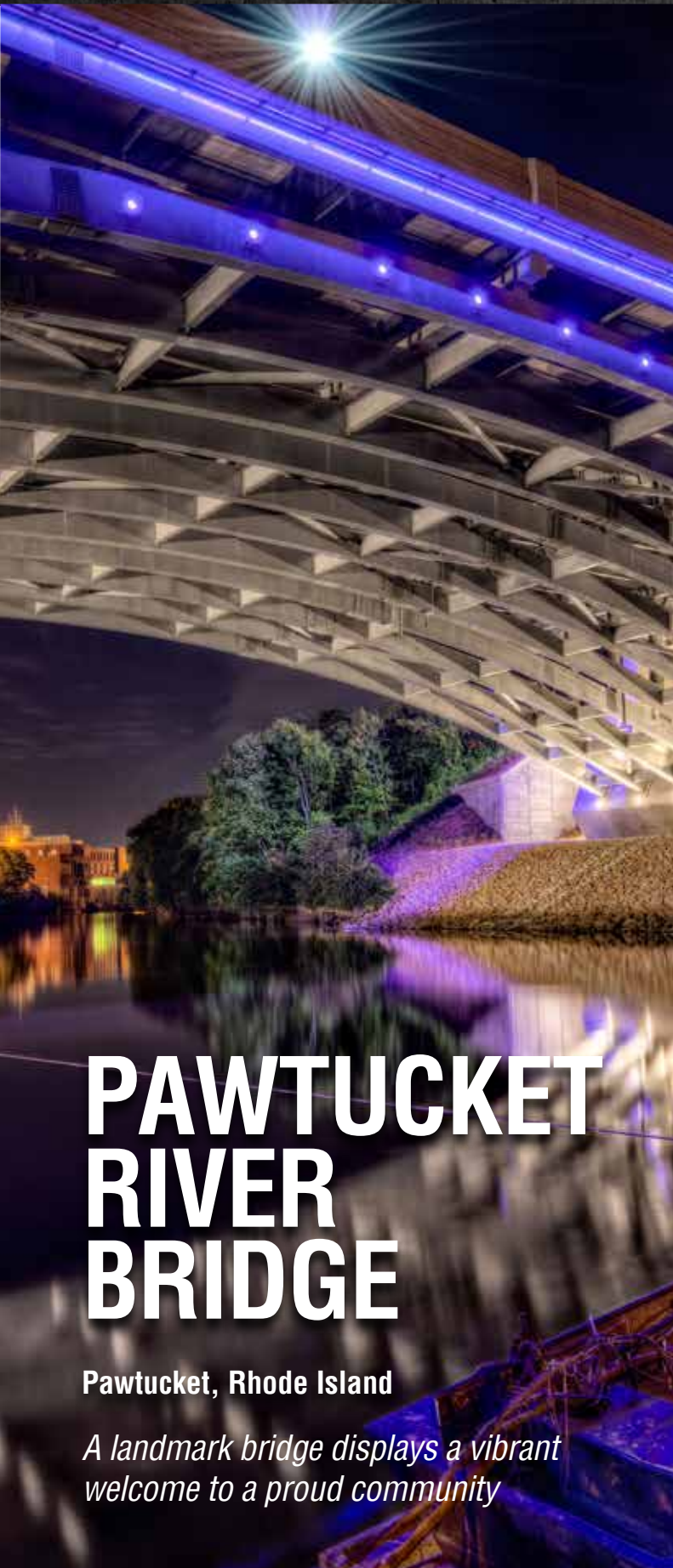
FEATURED PRODUCTS

SPYDER® & SPYDER® MINI

The Pawtucket River Bridge, completed in 2013, has become an important landmark and visitor attraction for the city of Pawtucket and the state of Rhode Island. An important part of Pawtucket's ever growing arts and entertainment community, the bridge is a beacon for Pawtucket that blends with the city's historic landscape. The art deco themes on the bridge and pylons reflect connections to the Pawtucket City Hall, an Art Deco style structure built in 1933 as part of the Works Progress Administration—the US Government construction program created in the Great Depression to put unemployed construction workers back on the job.

It features colorful state-of-the-art lights by Beghelli that enhance the architectural features of the newly built structure, along with dramatic views of the riverfront. The unique color changing system of low voltage and long life Spyder® & Spyder® Mini LED lights enhances visibility on the bridge, and provides the ability to change the colors of the lighting to coordinate with major holidays or local events, similar to the lights on the dome of the Rhode Island State House.





PAWTUCKET RIVER BRIDGE

Pawtucket, Rhode Island

A landmark bridge displays a vibrant welcome to a proud community

The City of Pawtucket wanted a lighting design that could change throughout the year to mark occasion with vibrant colour displays.

The Spyders were chosen based on a few factors – performance, pricing and system layout. Spyder Minis in RGB colour mixing were used in varying lengths across the full expanse of the bridge. Other areas such as the vertical pylons were lit with both Spyders and Spyder Minis in white.

Beghelli's engineering team made several modifications to the standard product to meet the needs of this job. Many of those improvements can be found on the existing products today. First, was that the project required specific environmental testing to ensure the Spyders could stand up to the climate and bridge vibration. A new mounting bracket was designed with a larger footprint and holes for easier installation. As LED technology improved, we also offered the Spyders with a lower wattage and higher lumen output.



The Spyder® series combines performance & technology.

Available up to 8ft in length, with white or RGB color mixing.

The Spyder® housing is fabricated from high-strength aluminum alloy with an anodized or hard anodized finish.

- Wet location / IP67 rated
- High efficiency LEDs
- Impact resistant polycarbonate diffuser
- Marked angles for precise positioning
- L₇₀ rated for more than 100,000 hours
- Choice of distribution and colour temperature
- Sanitation listed for food preparation areas