



PHILIPS

Case Study

Connected LED
lighting system

Tunnel architectural lighting

Brockville Railway Tunnel, Brockville, Ontario, Canada

Revitalization of Canada's first railway tunnel is transforming
Brockville into a destination location

Photography provided by
Keith Hare
City of Brockville, Canada



Historical landmark revived with light

A pillar of Canada's pre-Confederation industrial heritage, the Brockville Railway Tunnel has undergone an innovative restoration project transforming the tunnel into a cutting-edge walkway fitted with Philips Color Kinetics dynamic LED lighting. The project sets a new benchmark in public-private collaboration for the city of Brockville. The newly illuminated tunnel creates a new city identity, celebrates the history, fosters livability, and generates an economic impact for the city of Brockville all while adding it to the list of must visit places in the Thousand Islands region of eastern Ontario.

Constructed over the course of 1854 – 1860, the Brockville Tunnel was the first railway tunnel built in Canada. Located underneath the downtown area of the Ontario city, the Brockville and Ottawa Railway with its tunnel was built to connect the St. Lawrence River with the Ottawa River to take advantage of the lucrative lumber trade. Later the tunnel served as a gateway to bring in goods

from the United States via the St. Lawrence River through to the province of Ontario until 1970 when service ceased. In 1983 the city of Brockville acquired the railway tunnel from the Canadian Pacific Railway as a part of a heritage preservation initiative, fitting the south portal of the tunnel with an 85 foot walkway open to the public. In 1992 the Brockville Railway Tunnel was designated as a historic site.

Eighteen years later in 2010 a newly formed Brockville Railway Tunnel Committee, made up of both public and private stakeholders, initiated a feasibility study on historic sites, public enterprise, and commercial attraction. Revitalization of the tunnel was included in the city's strategic plan with a vision to provide visitors of Brockville's waterfront a complete experience, turning it into a true destination location.

Once the plan was set, a sizable undertaking lay ahead for workers on the project. Masonry work had to be done along with rock bolting, the installation of a concrete pathway, plus adding drainage, electrical, sound, fire and safety system and a lighting system to the tunnel. It was of paramount importance that the tunnel maintain its natural beauty through the restoration. Timeless and unique features of the tunnel like the mineral deposits formulated on the rock over the years were not only preserved, but highlighted.

“ We are seeing technology illuminate our past and make it interesting for many generations to come.”

- David L Henderson B.Sc., M.B.A., Mayor,
City of Brockville

“The Brockville Tunnel is a remarkable historical landmark and we had a vision to **transform it into a true attraction that will make it internationally known**. With the Philips architectural LED lighting system, we have created something wonderful for the community and visitors.”

- David LeSueur,
City of Brockville Councillor and Brockville
Railway Tunnel Committee Chair

Project Statistics



Economy:

- 30,000+ new visitors/ year expected¹



Experience:

- 52 lighting theme request/year¹



People:

- Among top 10 visited place in region¹



Social Media:

- >500K impressions expected annually²

1. Market Assessment Study by TCI Management
2. Based on equivalent projects

“The Brockville Tunnel is Canada’s first railway tunnel and a part of Canadian history. Our team at Philips Lighting was excited to join the restoration project and assist in illuminating the tunnel walkway with our energy-efficient dynamic **LED lighting which enhances both the tunnel’s architecture and the visitor’s experience.**”

- Michael Gentile, President & CEO
Philips Lighting Canada





The entire 525 m (1722 ft) of the tunnel was installed with Philips Color Kinetics ColorGraze MX4 Powercore fixtures, transforming the mostly unused railway tunnel into a visually stunning walkway connecting the north and south portals. Grazing fixtures were specifically chosen for the inside of the railway in order to showcase the unique architectural and geological components of the 155 year old tunnel, while ColorBlast Powercore gen4 fixtures were installed at both portals to invitingly illuminate the entrances. The lighting inside the tunnel runs a dynamic “Philips Light Show” 365 days a year, drawing in locals and tourists alike. Citizens can even request custom lightshows for events held on the waterfront.

The Brockville Railway Tunnel was reopened to the public on August 12, 2017 to coincide with the Canada 150 celebrations taking place across the Great White North this year. The city and committee dedicated the project to the health and well-being of the people of Brockville as well as a celebration of Canadian history.

Already a hotbed of tourist activity in the summer months, the newly restored Brockville Railway Tunnel serves as a perfect gateway between the section of the city known as ‘The Gorge’ and the waterfront, drawing as much as 30,000 more visitors to the downtown area.

The charm of the tunnel is enabling the city to enhance visitation and creating a buzz in social media and popular travel sites around the world. The tunnel has become the central hub in Brockville to host community events and festivals year-round, further cementing it as one of the iconic landmarks in Thousand Islands region.

“ While working on the concept, the design and implementation of the re-opening of Canada’s First Railway Tunnel, **Philips Color Kinetics LED lighting system was a perfect solution to bring Ford Electric’s vision together.** Our design team wanted to turn what had become an overlooked part of the City of Brockville into a safe, energetic and vibrant attraction not only for the local community but also to change the historic tunnel into a tourist attraction on the world stage. ”

- David Bouwers M.E, Owner,
Ford Electric Co. Ltd.

Philips Lighting solution overview



Products

Philips Color Kinetics

Tunnel: ColorGraze MX4 Powercore

Entrances: ColorBlast Powercore gen4

Project Credits

Client: The City of Brockville

Lead Lighting/Infrastructure Design Team: Ford Electric

Lighting Consultant: A.M.G. Baytech

Masonry: Phoenix Restoration

Ground Services: Thundercrete Stamping

Photos: Keith Hare



Philips Color Kinetics

ColorGraze MX4 Powercore

Exterior premium LED wall grazing fixtures offering an expanded palette of intensely saturated full-color light output in a variety of beam angles.

For more info on the product: www.colorkinetics.com/ls/rgb/colorgraze-mx4-powercore/



ColorBlast Powercore gen4

High-performance LED fixtures combine white and rich, saturated, color and color-changing effects with simplified installation.

For more info on the product: www.colorkinetics.com/ls/rgb/ColorBlast-Powercore-gen4-rgbw/





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Philips Lighting
North America Corporation
200 Franklin Square Drive
Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd.
Markham, ON,
Canada L6C 2S3
Tel. 800-668-9008