The need for urban revitalization and increased ridership necessitated the expansion of the Main Street Skytrain station, built for Expo86. The expansion included a renovation of the existing entrance and platforms, in addition to a new entrance and a 87m long connector suspended above the street.

To render the station warm and inviting, 3000K, high CRI light sources were selected for new lighting system that consists of long life fluorescent lamps with programmable ballasts, dimmable LED directional luminaires and illuminated information boards. The control system consists of dimming, photocells, automated astronomic-time based devices to reduce energy consumption and create a dynamic space.

The platform edge, where passenger arrival and departures are, compressed into short, extreme activity in a confined space, is illuminated to mandated 200 lux, queuing and circulation to 150/50 lux respectively, with maximum visual comfort and minimum spill onto the track. Mounted for easy maintenance access, precise optic luminaires with glare-control louvers highlight escalators, stairs and info boards.

Asymmetric bi-directional luminaires mounted either side of concourses in direction of travel provide uniform illumination and assist in wayfinding.

Interdisciplinary integration enhanced overall building efficiencies and included selecting finishes for reflectivity and diffusion to improve volumetric brightness and passengers’ experience. Projections of water ripples, spaced 10m apart on suspended above the street station create visual interest, visually connecting station to neighbouring waterfront, revitalizing the area. Despite doubling station’s size, energy efficient technologies, reducing hours of operation with controls, precise optics, strategically placed luminaire annually save 70,000Kwh of energy, earning the project prestigious PowerSmart designation.

Award of
MERIT +
BC HYDRO RESIGN
Main Street Station | Vancouver, BC

TOTAL LIGHTING SOLUTIONS
Galina Zbrizher

PROJECT
Main Street Station

CATEGORY
Vision Award for Interior Lighting Design

LIGHTING DESIGNER
Galina Zbrizher

LOCATION
Vancouver, BC

OWNER
South Coast British Columbia Transportation Authority (TransLink), Government of British Columbia

PHOTOGRAPHY
Latreille Architectural Photography, Ed White Photography