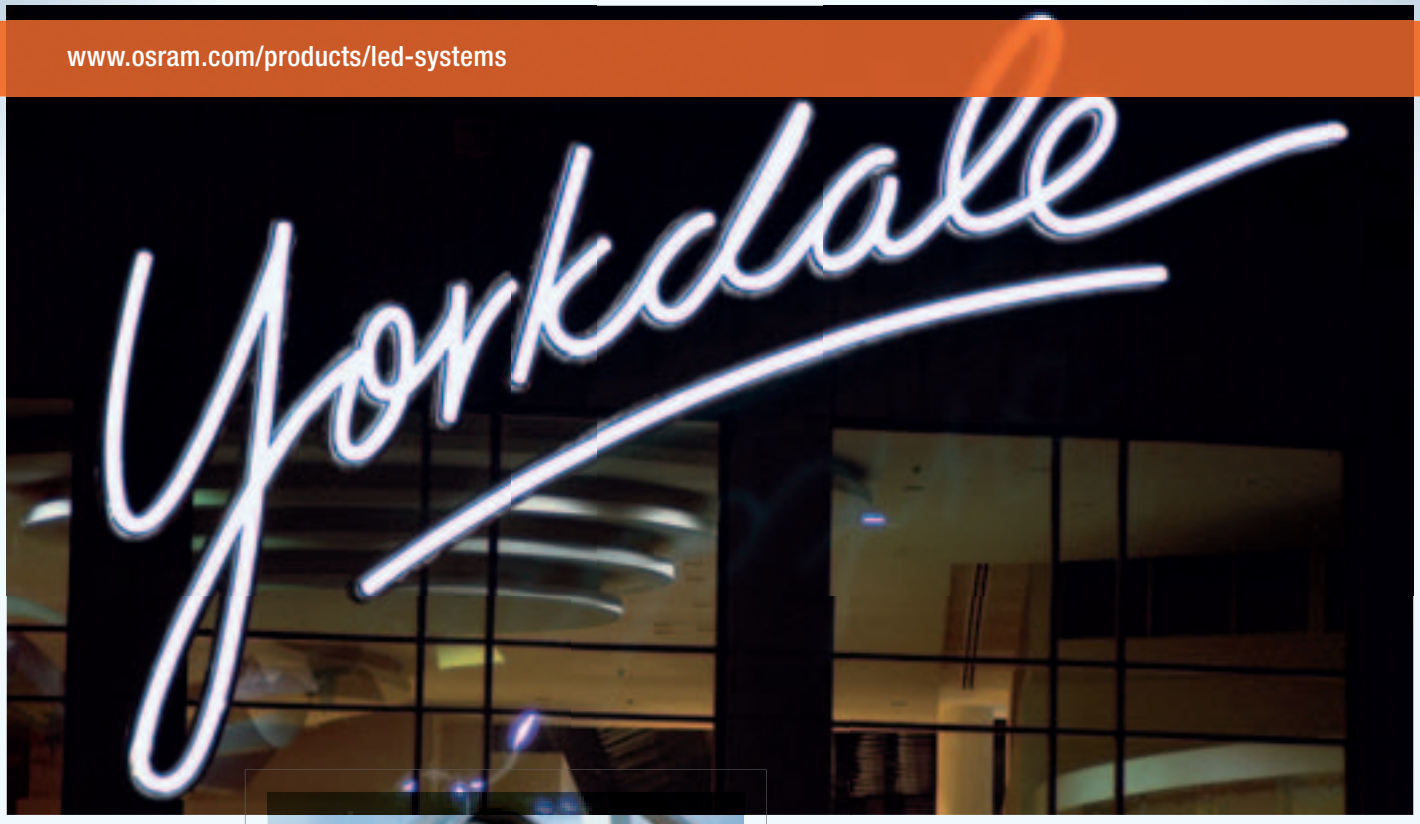
www.osram.com/products/led-systems



Benefits of LED-Systems at a glance

- High degree of efficiency
- Low maintenance cost
- Smooth operation even at low temperatures
- Brilliant colours
- Homogenous illumination
- One-stop systems for customised solutions
- Safe operation
- High break resistance
- Easy mounting and optional accessories
- OSRAM quality

Innovative, professional and creative.

Signage with OSRAM LED-Systems.

SEE THE WORLD IN A NEW LIGHT

OSRAM

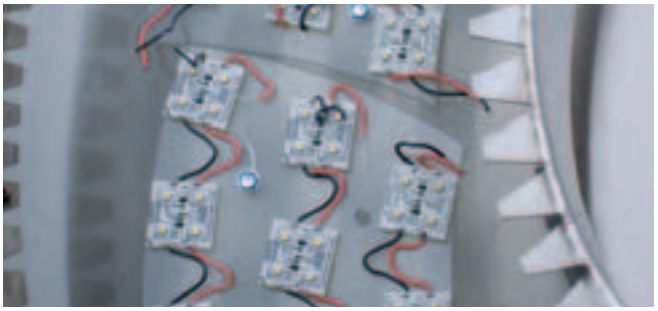
Before: the old Yorkdale neon sign.

After: the Yorkdale sign with LED solution from OSRAM.

Initial situation.
The Yorkdale Shopping Centre is one of the largest shopping malls in the province Ontario, Canada. At the front sides of its 18 metre high glass atrium, two huge neon signs were installed next to the busiest highway in Canada. After decades of operation, the two signs needed to be replaced.

OSRAM BACKlight – the ideal solution for signage.
LED-Systems last up to five times longer than conventional (fluorescent or neon) light sources. In addition, they have a high light output while their energy consumption is low. Therefore, LEDs are not only cost-effective (savings of up to 80 % in comparison with neon lights) but also eco-friendly. Moreover, LEDs have a very low operation temperature and can withstand a wide temperature range of -25 °C to +85 °C.

The BACKlight module is very robust and, unlike neon or fluorescent lights, it does not contain filaments or glass, which break easily during transport or installation. Moreover, its low-voltage operation (10 V DC) and the isolation of the power line in the OPTOTRONIC® power supplies improve safety and simplify installation. Its 120° beam angle allows for mounting in very close proximity to the letter face.
The result is: an even illumination of the letter face, compact size of the sign and a thinner sign outline.



Installation of the BACKlight system.
LumaLogix modelled, constructed and installed the new signs. The BACKlight modules were fastened with fire-rated snap-locks, pre-wired in a 4.8 mm clear polycarbonate shape and then pre-installed into the letter channels. The existing electrical conduits were used to route the LED power supply output leads to the sign. Finally, the original sign faces were reinstalled.

Installation of the LED-System.

Results.
Approximately 1,000 units of BACKlight LED modules and 128 OT50E IP64 50 Watt power supplies were installed. Following the conversion to the BACKlight LED-System, the power consumption of the two signs was reduced to approximately 2.5 kW respectively, compared with the original power consumption of approximately 10 kW. Not only has the energy use been reduced by 74 %, these signs are also noticeably more pleasing to the eye.