



# Unparalleled LED signal performance

Unipart Dorman LED signals provide a long and predictable life, giving huge benefits to railway operators.

We have supplied over 200,000 signals globally, and we are very proud to be able to share a few more recent examples of our world class signals at work.

## 10,000 Wayside signals shipped

The Unipart Dorman 12Vdc LED wayside signal portfolio was successfully launched in 2019 and during 2022 we reached the **10,000th module shipped milestone!** Stretching from Calgary in the north to Orlando in the south we are steadily building our credentials and are fast becoming the **LED signal supplier of choice** for a number of north American railroads and transit agencies.

## Class I Wayside LED signal deployment predicted service life on target at > 20 Years

One of our Class I clients returned a long-range module of each color from a 2019 installation, 35km south east of Calgary, as part of a 3 year service life condition investigation.

We were delighted to report that the 3 year old Wayside LED modules performed in an 'as new' condition and assuming a 50% duty cycle and a constant rate of degradation, the signals are on course to deliver a service life in excess of 20 years.



- Visually inspected, in good condition with no ingress detected
- Hot and Cold Filament Test passed on all colors and current draw measured within 1% of original values
- Optically tested for chromaticity which recorded no change and light output degradation is captured below

Color	Date of Manufacture	Installation	Degradation (%)	Predicted Life (Years)
Red	June 2019	Aug 2019	8.42%	23
Yellow	June 2019	Aug 2019	3.9%	22
Green	June 2019	Aug 2019	6.58%	31

## Network Rail, 2022 - 14 Year service life on 100% Duty Cycle

We have been supplying LED signals in the UK for the past 3 decades and after a comprehensive analysis, Network Rail issued a **Technical Instruction T180- July 2022, with a 14yr end of life replacement instruction for Unipart Dorman LED signals when deployed on a 100% duty cycle** (Permanently On), this can be extended up to 27 years with risk assessment and duty cycle analysis.

As an industry first in 2015 Network Rail also certified our **Integrated Lightweight Signal (iLS) as a zero maintenance - self cleaning LED signal.** This enabled the industry to benefit from the increase in LED signal performance and reduce the whole life costs and operational risks even further.



## Union Station Toronto, 12th Year of fault free operation

After securing Transport Canada approval, 40 tricolor LED signals were installed as a pilot at Union Station in Toronto in 2010.

The signals have exceeded operational expectations, with a flawless performance for 12 years, delivering over 4 million fault free operational hours.

## Driven to create value for our customers through extended lifecycle, delivering safety and operational performance improvements

At Unipart Dorman we listen to, and understand our customer needs, enabling us to deliver innovation with true value. We are delighted to share the results from the performance of our LED signals and the recognition of the dedication of the development team behind all of our products.

Contact us for more information:



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