

BetaLED™ Project Brief Overview

Crocina Tunnel, Arezzo, Italy



Project Summary

End User:	City of Arezzo, Italy
Application:	Tunnel Lighting
Product:	21 of THE EDGE™ tunnel luminaires using three light bars, installed at a height of 16 feet, replaced (one-for-one) 100-Watt High Pressure Sodium (HPS) fixtures.
Benefits:	<p>61 percent energy reduction using THE EDGE™ with integrated two-level system that reduces power consumption while maintaining minimum light levels.</p> <p>BetaLED fixtures deliver incredible uniformity ($U_o=0.85$ on the wall and $U_o=0.45$ on the roadway.) By providing better visual perception, (50 lux average on the wall and 2.4 cd/m² average on the roadway) over HPS, THE EDGE™ dramatically increases vehicle safety and visibility.</p> <p>In addition to a life rating in excess of 100,000 hours, BetaLED fixtures require little to no maintenance translating to big cost savings for the city.</p>

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Energy Savings. Performance and Little-To-No Maintenance.



The total cost of ownership for the Corcina Tunnel in Arezzo, Italy was too high due to the excessive cost of relamping in a tunnel application. The city searched for more economical options and evaluated a range of LED solutions. They concluded that THE EDGE™ offered the cost-effective solution the city needed for energy savings, performance and little-to-no maintenance.

Arezzo wasted little time to retrofit all existing 100-Watt HPS lamps in the Corcina Tunnel with THE EDGE™ tunnel luminaires. City officials noticed an immediate and dramatic improvement in uniformity, color, and brightness.