



# SUCCESS STORY

Office Building Parking

Glasgow, Scotland



## SNAPSHOT

**PROJECT:**  
Cirrus Building

**EXISTING LIGHTING:**  
250W High Pressure Sodium System

**REPLACEMENT LIGHTING:**  
140W RIO (*Retrofit Integrated Optics*)  
System

**SCOPE:**  
(38) lamps and ballasts replaced

**ANNUAL ENERGY SAVINGS:**  
Approximately \$3,600.00

## RIO SHINES COST EFFECTIVE WHITE LIGHT ON GLASGOW

### PROJECT SUMMARY

Glasgow Airport Business Park is a thriving industrial parkway that offers prime real estate directly next to Glasgow International Airport for many offices, hotels and warehouses. Among the numerous well known businesses that reside at this desirable location, the Cirrus Building stands out with its modern steel and glass exterior and striking profile.

Owned by Capita Symonds, a large syndicate of consulting factions specializing in building design, civil engineering, and environmental and transportation sectors in the UK, the Cirrus Building was built in 2008 and houses commercial offices.

### THE CHALLENGE

ECG Facilities Services, the facilities management company maintaining the Cirrus Building, was unsatisfied with the upkeep of the aging 250W High Pressure Sodium (HPS) lighting system. This previous HPS system, featuring drop lens luminaires and magnetic ballasts, was also creating a costly situation of excessive energy consumption. Not only were operating costs at an unparalleled high, but ECG Facilities Services was in the market for a more environmentally friendly and sustainable lighting solution.

*In comparison to the large price tag of installing a completely new system, using the existing poles and luminaires cut the cost of the lighting upgrade in half.*

Characteristic of HPS lighting, the Cirrus Building was surrounded by inadequate yellow light. This yellow hue, while unpleasing to the eye, was more importantly a safety issue. The dim yellow light did not

provide enough visibility in the parking lot and area surrounding the building.

### THE SOLUTION

After connecting with Bradstone Lighting of Glasgow, a local specifier and installer, ECG Facilities Services was introduced to Venture's RIO (Retrofit Integrated Optics). The RIO is Venture Lighting's patent-pending street and area lighting solution that offers up to 30,000 hours of rated lamp life and can be easily installed in just minutes.

Venture's 140W RIO kit was retrofitted into the existing luminaires to achieve brighter white light increasing visibility and improving safety with less energy consumption than the previous 250W HPS system. In comparison to the large price tag of installing a completely new system, using the existing poles and luminaires cut the cost of the lighting upgrade in half. RIO's brilliant white light delivered an impressive jump to 70 CRI from the 22 CRI with the HPS lighting.

Venture's RIO Lamp Module



Ventronic™ Ballast

The simplicity of RIO kit installation allowed for all 38 luminaires to be upgraded in one weekend, which avoided any disruptions to the facility during work hours. With an estimated payback period of 24 months, the extended lamp life and simple installation translates to less maintenance for ECG Facilities Services. As the first RIO installation in Scotland, the goals of replacing dim yellow light with vivid white light and significant energy savings were met and exceeded.

### THE BENEFITS

- Retrofit was only half the cost of replacing the entire system
- Brighter white light increases safety
- Less energy consumption makes building more environmentally friendly

### COMPARISON

Existing System <b>250W HPS</b>	vs	Venture's <b>RIO 140W System</b>
<b>24,000</b>	Rated Life Hours	<b>30,000</b>
<b>22</b>	CRI	<b>70</b>
<b>2100K</b>	Color Temperature	<b>2800K</b>
<b>285</b>	System Watts	<b>151</b>
	Savings	<b>134 System Watts Saved = \$94 per luminaire*</b>

\* Based on 12 hrs/day @ \$0.16/kWh



**Before**



**After**

**(800) 451-2606  
or (440) 248-3510**

Fax: (800) 451-2605  
7905 Cochran Road  
Glenwillow, Ohio 44139 USA  
E-mail: [venture@adlt.com](mailto:venture@adlt.com)  
**VentureLighting.com**

