



# retail mall parking garage



*"Retail Mall will save 52% on lighting costs by retrofitting the existing fluorescent strips."*

subject: retail mall parking garage  
 location: santa ana, ca  
 description: 504- 25wt l-bar strips

### The Situation:

Retail Mall in Santa Ana, California, looking to increase the quality of light in their parking structure, upgrades the existing fluorescent strips to a more efficient LED solution. The client was able to provide added security by creating an inviting parking environment while at the same time reducing energy usage and cutting down on electricity costs. Maintenance had also become an issue.

### The Solution:

FSC Lighting's L8500 Series Strip replaced 59 watt fluorescent strips throughout the parking garage, dropping lighting costs by 52%. Following the replacement of 59 watt fluorescent lamps with FSC's 25 watt L8500 Series strip, this major parking operator was able to use 136,866 fewer kilowatt hours (kWh) per year, a savings of approximately \$19,846 annually based on \$0.145 kWh rate and 24 hours of operation a day. By converting to the FSC LED Light Bar, with a 203,000 hour rated life, maintenance has all but been eliminated. Santa Ana, CA gets hot during summer months and typically experiences high ambient temperatures. The LED Light Bar solution has an ambient temperature rating of 50° C/122°F so it will be able to stay in warranty.

	EXISTING	REPLACEMENT
TECHNOLOGY	Fluorescent	LED
SYSTEM	2 Lamp T8 Strip Fixture	LED Light Bar Strip
TOTAL SYSTEM ENERGY USAGE (watts)	59	28
CONTROLS	None	Auto Demand Response Ready
TOTAL ANNUAL kwh	260,487	123,621

## RESULTS:

ANNUAL ENERGY SAVINGS:

**136,866Wh**

ANNUAL ENERGY COST SAVINGS:

**\$19,846**

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For more information about the L8500 Series Strip and more FSC LED products call 909-948-8878