

## Safeway Stores

The Safeway lighting retrofit was implemented to achieve an improved lighting environment while minimizing energy consumption for such an enhancement. The original design for most Safeway Stores utilizes 8' strips with 3 F-96 T12 Slimline lamps mounted on the ceiling in continuous rows. Each fixture consumes approximately 264 watts, each store has approximately 250 fixtures and the light level averages 100 FC. The total connected load is estimated at 66 KW and the energy consumption is 429,000 KWH per 6,500-hour year. For the 100 stores in the project, that equates to 47,190,000 KWH per year in energy use.

The retrofit consisted of using the RE pre-assembled kits with 6, F032 T8 lamps and two Low Power electronic ballasts. Each fixture consumes 178 watts, each store still uses approximately 250 fixtures and the light level averages 100 FC in the main store areas and 120 FC in the produce area. The total connected load of the new system is 44 KW and the energy consumption is 285,000 KWH per 6,500-hour year. The annual savings resulted in drop in energy use by 22 KW and 114,000 KWH. This equates to a 12,540,000 KWH savings for 110 stores.

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	Avg, Light Levels	Energy Use Per Fixture	Hours of operation	Fixture Count	KW Load	KWH Usage
Pre Retrofit	100 FC	264 Watts	6,500	250	66.0	429,000
Post Retrofit	100-120 FC	178 Watts	6,500	250	44.5	289,250
Savings		86 Watts			21.5	139,750

The RE (RS OEM) fixture is a uniquely tapered fixture that provides a clean low profile look for retail applications. The exceptional optical performance and high efficiency is delivered using a Miro4 specular reflector integrated into the fixture body. The average fixture efficiency is 94% across the various product offerings. The lamp configuration and positioning allows full view of the lamps from all areas of the store and provides an even and bright ceiling while deliver light to the products.

The RE/RS fixture series are design to provide even light distribution with maximum efficiency using T8 lamp and ballast technology. The fixtures are available in numerous lengths from 2' to 10' per unit with a variety of lamp configurations and ballast combinations. The versatility and performance of this fixture line permits the designer numerous combinations of light levels and energy performance using traditional lighting layouts.