

HUSSmann[®]

EcoShine LED Lighting Solutions



**Brighter Merchandising,
Lower Energy Costs**

IR Ingersoll Rand

Get Brighter Lighting and Greater Energy Savings
Throughout Your Store!

Husmann EcoShine LEDs Offer a Total Store Solution

Husmann has developed new EcoShine LED lights for shelves, canopies, reach-ins and walk-ins – unique solutions for each department in your store

EcoShine LEDs Are Optimized For Each Department...

✓ Right Color ✓ Right Brightness ✓ Right Product

Department	Case Application	Length (inches)	Color Temperature
Frozen Food	Standard, Narrow, and Tall for reach-ins	60, 67	3500K, 4100K
Meat	High color-rendering shelf and canopy	12, 24, 36, 48, 60, 72	2900K, 3500K
Dairy	Shelf and canopy	12, 24, 36, 48, 60, 72	3500K, 4100K
Produce	Shelf and canopy	12, 24, 36, 48, 60, 72	3500K, 4100K
Deli/Prepared Foods	Shelf and canopy	12, 24, 36, 48, 60, 72	3500K, 4100K
Walk-ins	Narrow and Tall for walk-ins	60, 67, 72	3500K, 4100K



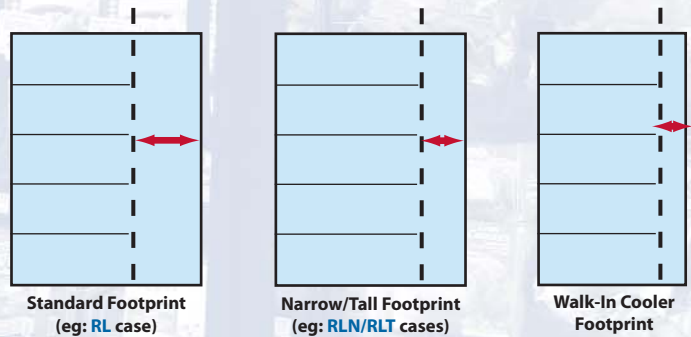
A Brilliant Idea for Frozen Food Merchandising



Optimized for Frozen Food Displayed in Reach-In Cases & Walk-In Coolers

- Enhanced product visibility
- Uniform light dispersion
- Bright illumination
- Optimized for each door application, including standard, narrow and tall applications
- 27W and 16W options
- Up to 65% energy savings; with motion dimmer save up to 83%!
- Shoppers see more, retailers sell more!

Optimized for Each Door Application

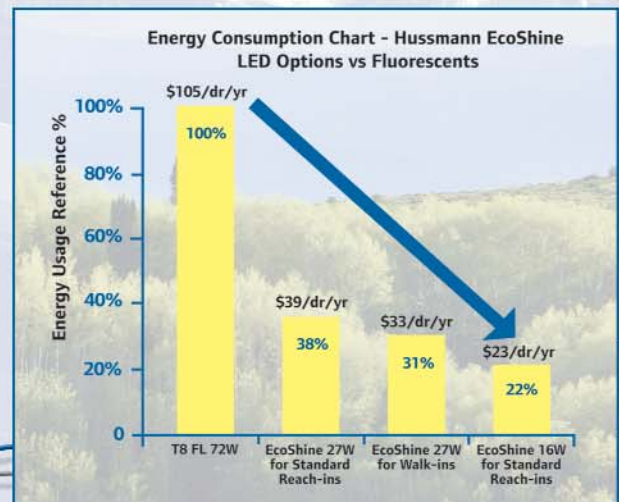


Lux Levels at Center of Door Eliminates Dark Bands in the Middle

	27W	16W
RL	1700 lux	1200 lux
RLN/RLT	1400 lux	1100 lux
RLT	1400 lux	n/a
Walk-in	1200 lux	n/a



EcoShine Leads the Way in Energy Savings



A Brilliant Idea for Meat & Deli Merchandising



Optimized for Superior Meat Color and Brightness

EcoShine Shelf Lights:

- True color rendering to bring out the freshness in meat (95 CRI)
- 65% energy savings compared to T8 fluorescents
- Easy, flexible installation using magnets
- Safe low voltage design with no arcing
- IP54-rated for water and dust protection
- 5-7 year lamp life

EcoShine Canopy Lights:

- Maximum product visibility
- 51% energy savings over two rows of T8; 68% savings over three rows of T8 lighting
- Enhanced product integrity with low heat & UV radiation
- 5-7 year lamp life



Real meat under EcoShine
95 CRI LED



Same meat under
fluorescent 75 CRI light

Canopy

Shelf

A Brilliant Idea for Dairy, Produce & Prepared Foods



Optimized for Dairy, Produce & Prepared Foods Merchandising

EcoShine Shelf Lights:

- 72% energy savings compared to 4-foot T8 lights
- Safe low voltage design with no arcing
- Easy, flexible installation using magnets
- IP54-rated for water and dust protection
- 5-7 year lamp life

EcoShine Canopy Lights:

- Maximum product visibility
- Uniform lighting across all shelves and bottom deck
- 56% energy savings over two rows of T8; 71% savings over three rows T8 lighting
- 5-7 year lamp life



Canopy

Shelf



EcoShine Energy Savings

Energy Savings by Type for EcoShine LEDs vs. Fluorescent Lights



Reach-In Light Energy Savings

63 - 78%



Walk-In Light Energy Savings

66 - 69%



Shelf Light Energy Savings

61 - 67%

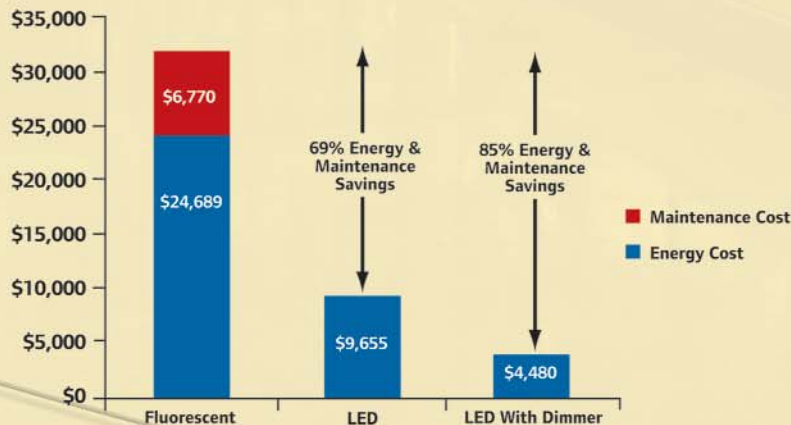


Canopy Light Energy Savings

Up to 56%

Total Store Savings Example*...

Case Light Energy Cost Savings in a Typical 50,000 sq. ft. store: LED vs Fluorescent



* Example Assumptions:

- 100 Reach-In Doors
- 20 Walk-In Doors
- 60 Meat Shelves
- 50 Dairy/Island Shelves
- 15 Meat Canopies
- 90 Dairy Canopies
- 11¢ per KWH
- Dimming Level of 80%

Save Even More With Dimming Sensors

- Dim lights when customers are not present
- 3 dimming levels (100%, 80%, 50%)
- In example above, dimming sensors save an additional 7%
- Extend life of lamp 2-3 years

Retrofit Your Multi-Deck or Reach-In Cases & Start Saving Today

Hussmann Can Retrofit the Following Cases With EcoShine LED Lights:

	Reach-in/Walk-in	Shelf	Canopy
Hussmann	✓	✓	✓
Hill	✓	✓	✓
Tyler	✓	✓	✓
Sanyo	✓	✓	✓
Kysor	Coming Soon	Coming Soon	Coming Soon

Benefits of EcoShine LED Lights

- Brighter than ever
- Lower energy costs
- Optimized color rendering by departments
- More uniform product illumination
- Concealed light source
- Excellent durability with 5-7 year lamp life
- Green: lower carbon footprint, ROHS compliant
- Nationwide installation available
- 5 yr. warranty on LED lights and power supply
- Greater savings with optional dimmer
- Rebates available in many areas
- Financing options available
- UL and NSF certified
- Shelf lights IP54 certified



Ingersoll Rand (NYSE:IR) is a world leader in creating and sustaining safe, comfortable and efficient environments in commercial, residential and industrial markets. Our people and our family of brands— including Club Car®, Hussmann®, Ingersoll Rand®, Schlage®, Thermo King® and Trane®— work together to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables, secure homes and commercial properties, and increase industrial productivity and efficiency. We are a \$13 billion global business committed to sustainable business practices within our company and for our customers.

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