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### 24watt 5' COOLER/FREEZER DISPLAY CASE LAMP FEATURES

ITEM	PARAMETER RANGE
LED diodes per lamp	384 (Bi-Pin) – 371 (HO)
Prismatic Casement	Acrylic
Comparative Light Output	4,125 lumens +/- 5% - Bi-Pin 3,975 lumens +/- 5% - HO
LED Color-Kelvin/model number	Cool White = 5500K Bi-Pin T-X BI-5CWEXB-24W Warm White = 4100K Bi-Pin T-X BI-5WWEXB-24W Cool White = 5500K HO T-X HO-5SCWEXB-24W Warm White = 4100K HO T-X HO-5SWWEXB-24W

ITEM	UNIT	PARAMETER RANGE
Working temperature	°F (°C)	-31 °F to +145 °F (-35 °C to +60 °C)
Working Frequency	Hz	50hz to 60hz
LED Driver voltage:	v	90 to140v or 200 to 280v Please Specify Voltage Required-
Lamp length	ft/inches	5' (nom) Bi-Pin 59.1 (pin to pin) 5' (nom) HO pin 57.2 (end to end)
Lamp diameter	mm	30 mm
Average Rated Life	Hours	50,000 to 80,000

Manufacturer's Warranty	Lighting products are warranted for three year against defects. In case of multiple individual LED lighting greater than 20% of the LED's must be affected. LED will continue to operate with individual LED's being non-operational. Warranty will be voided if it is determined the lamps have been incorrectly installed. Lights must be returned for replacement to be awarded.
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## LED LAMPS –FEATURES AND BENEFITS

### Save Money

T-X LEDs will cut your organization's energy and maintenance costs. Be sure to ask about the attractive utility rebates and tax incentives available. If you look at the big picture, energy prices are climbing through the roof and wise decision makers want to take action to avoid soaring prices. If you decide to invest in T-X LED's, you will shield your organization from future price spikes.

### Be Green

T-X LED's will lighten your organization's carbon footprint. They directly reduce your consumption of electricity that is produced primarily by burning fossil fuels. If you scratch the surface, the longevity of T-X LED's also reduces the amount of energy used to produce and transport replacement lamps. In addition to offsetting carbon emissions, T-X LED's are completely recyclable and they do not contain mercury.

#### LEDs

- Very energy efficient  
(4' T-X LEDs use 20watts)
- 50,000 – 80,000 hour lamp life
- Requires no ballast
- Contains no mercury
- Durable acrylic casing
- Operation temperatures: -31° F to 145° F
- Emits very little heat
- Directional light  
(Less wasted light)

#### Fluorescents

- Energy efficient  
(4' T-8 Fluorescents use 32 watts)
- 24,000 hour lamp life
- Requires a ballast
- Contains toxic mercury
- Fragile glass casing
- Operation temperatures: 0° F to 160° F
- Emits much more heat
- Glowing light  
(More wasted light)

Frozen Foods - Vertical Mullion Lamps



Before

- 5' Lamps
- Electronic Ballasts
- 117.4 Foot Candles
- 232 Watts (58 watts/lamp)



After

- Four 5' T-X LED Lamps
- No Ballasts
- 112.7Foot Candles
- 96 Watts (24 Watts/Lamp) 59% Savings

