



# LUMIVERSAL

## Lumiversal LED Refrigerator/Freezer Lights



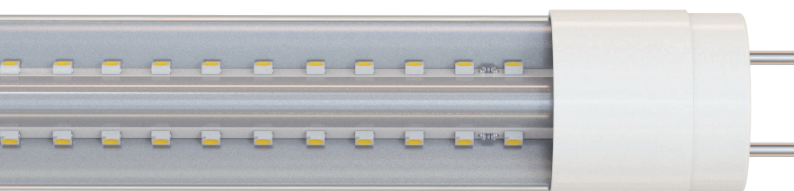
10° Freezer Light

### Benefits

- Reduce energy costs by up to 80%
- Increase light output and get more evenly distributed light
- Improve quality of light
- Significantly reduce maintenance costs

### Specifications

- Efficient
  - 80 lumens/watt for 3500K and 4100K
  - 90 lumens/watt for 6500K
  - 100 lumens/watt by special order
- >80 CRI, for 3500K and 4100K
- Fully dimmable
- Retrofittable
- Multiple color temperatures



70° Freezer Light

### Color Temperature

Lumiversal lamps are available in three color temperatures: 3500K, 4100K, and 6500K. Lumiversal is one of only a few companies to offer such a wide range of color temperatures.



Lumiversal's LED refrigerator/freezer lights provide substantial savings and significantly improved quality of light compared to fluorescent systems. Lumiversal's solutions are designed to be used in both new installations and in retrofit applications. Unique to the industry, our LED lights are specially designed to fit in existing fluorescent fixtures, resulting in reduced installation costs, less waste, and considerably less installation time.

Did you know that 50% of the electrical demand in a supermarket is from the refrigerated cases? And 25% of that demand comes from the lighting in those cases? Replacing existing fluorescent lamps with LED lamps can yield up to 80% savings on lighting-related energy costs and 10% savings on a store's total electrical power costs.

In a study performed at a supermarket over 80% of shoppers stated they preferred LED freezer lighting over fluorescent freezer lighting, even in cases where the LED provided less overall light.

Research shows that an additional 0.45 kWh in freezer case refrigeration savings is realized for every kWh of energy reduction in lighting.

Lumiversal's lighting solutions for refrigerators / freezers save in more ways than just reduced lighting costs. Our LED lights produce less ambient heat than linear fluorescent lamps, which means that less energy is consumed in the cooling process. Maintenance costs are also greatly reduced because Lumiversal LEDs last up to 10 years; fluorescent lamps often last only 1 year in extreme temperature environments.

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## Wattage by Length

Length (ft)	Wattage
2	6
3	9
4	12
5	16
6	19
8	25

## Lumens

### 70° Vertical Freezer Lights

Length (ft)	Wattage*	Color Temp (K)	Lumens
2	6	3500	480
2	6	4100	480
2	6	6500	540
3	9	3500	720
3	9	4100	720
3	9	6500	810
4	12	3500	960
4	12	4100	960
4	12	6500	1080
5	16	3500	1280
5	16	4100	1280
5	16	6500	1440
6	19	3500	1520
6	19	4100	1520
6	19	6500	1710
8	25	3500	2000
8	25	4100	2000
8	25	6500	2250

### Corner Freezer Lights

Length (ft)	Wattage*	Color Temp (K)	Lumens
2	3	3500	240
2	3	4100	240
2	3	6500	270
3	4.5	3500	360
3	4.5	4100	360
3	4.5	6500	405
4	6	3500	480
4	6	4100	480
4	6	6500	540
5	8	3500	640
5	8	4100	640
5	8	6500	720
6	9.5	3500	800
6	9.5	4100	800
6	9.5	6500	855
8	12.5	3500	1040
8	12.5	4100	1040
8	12.5	6500	1125

### 10° Freezer Lights

Length (ft)	Wattage*	Color Temp (K)	Lumens
2	6	3500	480
2	6	4100	480
2	6	6500	540
3	9	3500	720
3	9	4100	720
3	9	6500	810
4	12	3500	960
4	12	4100	960
4	12	6500	1080
5	16	3500	1280
5	16	4100	1280
5	16	6500	1440
6	19	3500	1520
6	19	4100	1520
6	19	6500	1710
8	25	3500	2000
8	25	4100	2000
8	25	6500	2250

The listed wattage values represent typical requirements for adequate lighting. Power settings ranging from 1/2x to 2x of the listed values can be custom ordered. Please contact your local sales representative for more information.

In accordance with our policy to consistently improve our products, the specifications contained herein are subject to change without notice.

## Dimmable

Our LED driver is fully dimmable, enabling you to save even more energy. Lamps can be dimmed between 100% and 1% giving flexibility to use only the amount of light needed. Using optional motion sensing technology, lights can be dimmed to a lower level, shutoff completely, or dimmed for a period of time and then shutoff, when there are no people in the area.

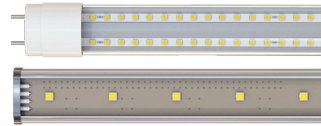


## Evenly Distributed Light

Our LED lights use many low-powered LED chips in each lamp, which allows the light to be both widespread and evenly distributed. Other companies produce LED lamps that use only a few high-powered LED chips per lamp. The drawback of using a small quantity of high-powered LED chips is that it results in less evenly distributed light with visible hotspotting.

Lumiversal

Other companies



## Designed for Extreme Temperature Environments

Lumiversal LED lamps are specifically designed around the extreme temperatures in freezer cases. LED lamps do not suffer from the same performance issues in cold temperatures as fluorescent lamps. Fluorescent lamps lose efficiency, lumen output and longevity due to the cold environment, while LED lamps experience none of these negative effects.

## Pin Types Available



Single-Pin

Bi-Pin

R17D

Wired (New Installation)

Our retrofit kits offer multiple options with respect to pin types: single-pin, bi-pin, and recessed double-contact (R17D). This allows for seamless installation into your existing fixtures. Additionally, the pin types are adjustable and interchangeable. For new installations, a wired cap is provided along with mounting hardware.

## Shopper Survey – LED vs Fluorescent

### Which lighting...



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