

**LED COOLER AND FREEZER LAMPS**  
XXRL SERIES



**PRODUCT DESCRIPTION:**

MaxLite Cooler and Freezer lamps are a high value combination of design and performance features. For use in freezer case lighting, these DC operated lamps combined with remoted constant voltage drivers, give exceptionally long life. The 4100K color from LM-80 test certified LEDs give clean, bright white lighting to case products and goods.

**FEATURES:**

- Smooth Polycarbonate polymer housing, no exposed heat sink ribs to trap gunk
- Molded in Polycarbonate Polymer mounting tabs means no loose pieces and non-conductive contact
- Low mounting height reduces obstruction to access of case products

**CONSTRUCTION:**

- All Models incorporate IESNA LM-80 validated LED chipsets
- CRI > 80

**CONTROL:**

- Can be used with ON/off switches and/or occupancy sensors – dimming is driver dependent
- See Page 2 System Notes

**LAMP ORDERING INFORMATION:**

| ORDER CODE | MODEL NUMBER | WATTS (NOMINAL) | DELIVERED LUMENS | DIMENSIONS (L" x W" x H") | LIFE (L70) | CCT   |
|------------|--------------|-----------------|------------------|---------------------------|------------|-------|
| 96924      | 48RL1841     | 19W             | 1450 LM          | 44.75 x 1.19 x 1.0        | 50,000 Hrs | 4100K |
| 96925      | 60RL2241     | 23W             | 1820 LM          | 58.25 x 1.19 x 1.0        |            |       |
| 96926      | 72RL3041     | 29W             | 2220 LM          | 67.35 x 1.19 x 1.0        |            |       |

| COMPATIBLE DRIVERS* |  |   |
|---------------------|--|---|
| ORDER CODE          | MODEL NUMBER                           | DESCRIPTION   |
| 101478              | MUV060N024XX8-205 (KTLD-60-UV-24V)     | MAXLITE UNIV 120-277V 60W DAMP CONSTANT VOLTAGE CLASS 2 24V DRIVER NON-DIM  |
| 75296               | MUV100N024XX8-205 (KTLD-100-UV-24V-CP) | MAXLITE UNIV 120-277V 100W DAMP CONSTANT VOLTAGE CLASS 2 24V DRIVER NON-DIM |

\*If using driver not listed above, please contact MaxLite for technical assistance. Use of incompatible electronics can void warranty.

**SPECIFICATIONS:**

|                     |                           | 4FT. 48RL1841  | 5 FT. 60RL2241        | 6FT. 72RL3041         |
|---------------------|---------------------------|--|-----------------------|-----------------------|
| ITEM                | SPECIFICATION             | DETAILS  |                       |                       |
| GENERAL PERFORMANCE | Delivered Lumens (lm)     | 1450.2   | 1819.2                | 2221.1                |
|                     | Spacing Criteria          | Contact MaxLite for Installation Criteria  |                       |                       |
|                     | Color Temperature (CCT)   | 4100K  |                       |                       |
|                     | Efficacy lm/W Nom.        | 74.37  | 78.72                 | 76.28                 |
|                     | Dimming / Control         | Dimming or control – driver dependent  |                       |                       |
|                     | Lumen Maintenance (L70)   | >50,000 Hrs  |                       |                       |
| ELECTRICAL          | Drive Rate (mA)           | 750mA  | 920mA                 | 1250mA                |
|                     | Power Consumption         | 19.5W  | 23.1W                 | 29.1W                 |
|                     | Input Voltage             | 24Vdc  |                       |                       |
| PHYSICAL            | Dimensions (L" x W" x H") | 44.75" x 1.19" x 1.0"  | 58.25" x 1.19" x 1.0" | 67.35" x 1.19" x 1.0" |
|                     | Weight                    | <1lbs  | <1.5lbs               | <2lbs                 |
|                     | Housing                   | Housing and end caps: Opaque White Polycarbonate polymer, HB rated                     |                       |                       |
|                     | Lens                      | Translucent Polycarbonate Polymer, HB rated  |                       |                       |
|                     | Mounting                  | End flanges, screw attachment, 22 ga. Flying leads, vertical or horizontal orientation |                       |                       |
|                     | Operating Temperature     | -20°C~+50°C  |                       |                       |
| CERTIFICATION       | Certification             | USL & CNL as UL 2108 & 8750 / CAN/CSA 22.2 No. 250-8                                   |                       |                       |
|                     | Environment               | Suitable for damp Locations, Install using only Class 2 power Supply                   |                       |                       |
|                     | LED Class                 | IESNA LM-80-2008; ISTMT21  |                       |                       |
|                     | Warranty                  | 5 year Limited warranty  |                       |                       |

**System Notes:**

**Lamp Spacing / Photometry:**

Most refrigerating lighting is installed inside case or cooler. Distances between lamps and product, and door sizes can affect lighting distribution and evenness. Please consider when selecting a system.

**Driver Loading:**

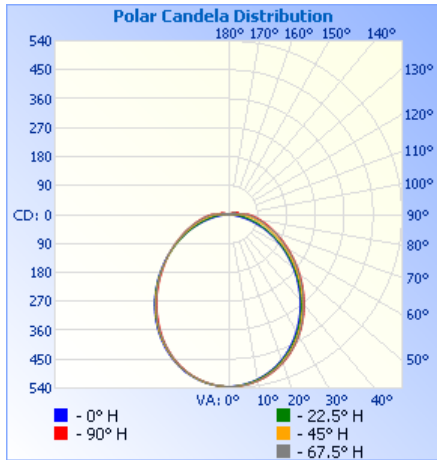
It is considered best practice to avoid 100% loading of drivers. Electrical input fluctuation, lamp load tolerances, and effects from heat of enclosed installations, can reduce any drivers maximum loading capability. Less than 80% of listed output wattage is recommended.

**Dimming or Controls:**

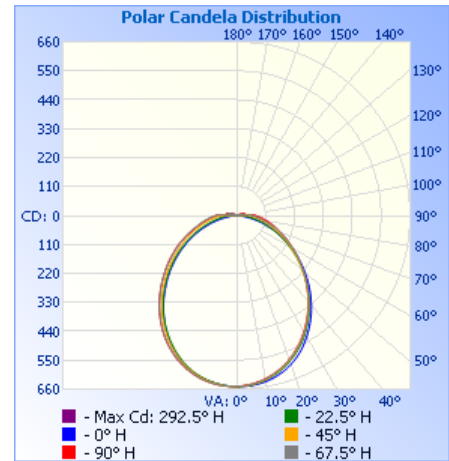
These lamps use an external driver, and can be dimmed when used in a system with a dimming capable driver. Controls should be paired or function with any selected driver. Note, typically any addition of dimming or control can impact total light output, as those devices consume some of the operating power normally used for lighting. Up to 20% output loss can be experienced in extreme situations, and is the result of combined driver, control, installation factors.

| MAXIMUM LAMPS PER DRIVER |   |  |
|--------------------------|---|--|
| COOLER                   | MAX# OF LAMPS WITH 60W DRIVER (MUV060N024XX8-205) | MAX# OF LAMPS WITH 100W DRIVER (MUV100N024XX8-205) |
| 48RL1841                 | 2   | 4  |
| 60RL2241                 | 2   | 3  |
| 72RL3041                 | 1   | 2  |

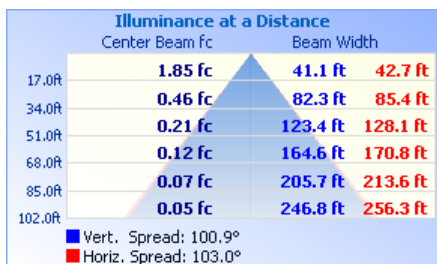
### 48RL1841



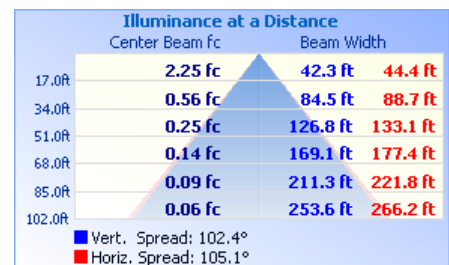
### 60RL2241



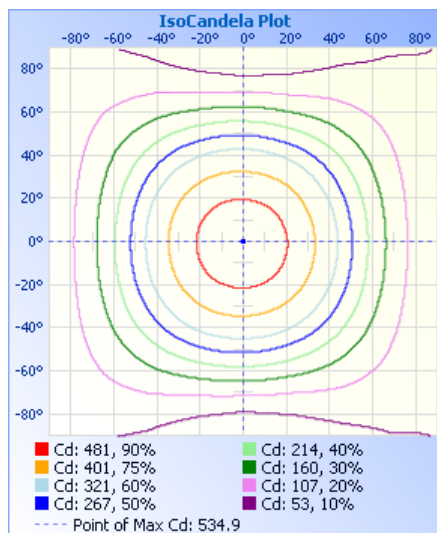
### Illuminance Plots



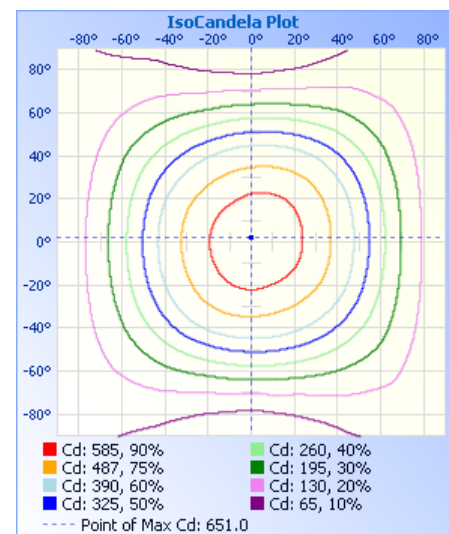
### Illuminance Plots



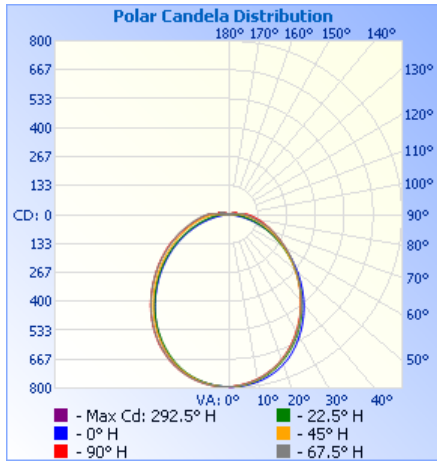
### Isocandela Diagram



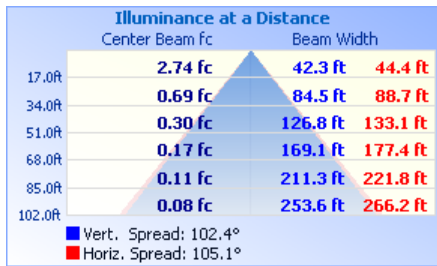
### Isocandela Diagram



## 72RL3041



### Illuminance Plots



### IsoCandela Diagram

