PRODUCT DATA SHEET Page 1

CATHODE LIGHT STRIP (Model CLS)



Patent 7,293,895 Patent 6,454,431



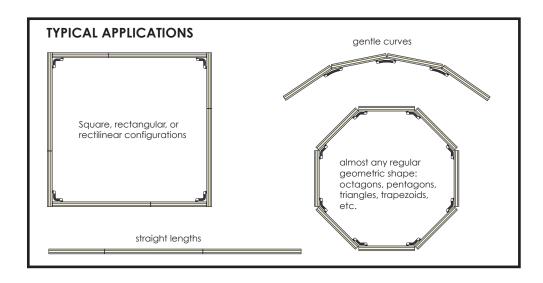
High-output seamless, shadow-free cove lighting effects in an easy to specify and install, beautifully-designed package.

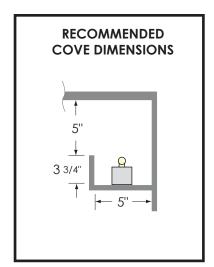


FEATURES & BENEFITS

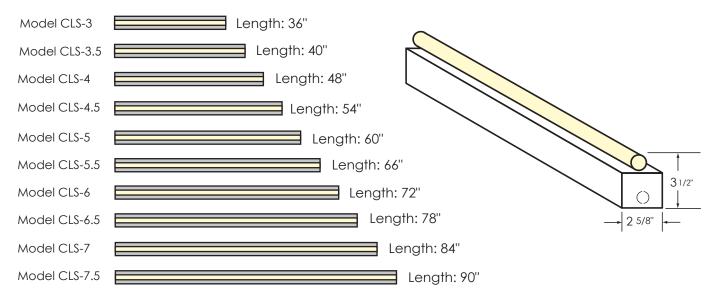
- Illumination is seamless from end to end, with no dark spots or socket shadow
- Luminaires are available in 10 standard sizes, from 3 feet to 7.5 feet (in 6" increments)
- Reliable, long-life high-output high color-rendering T6 cold cathode lamps (up to 50,000 hours of life)
- Up to 332 feet of fixtures on one 20-amp circuit @ 277 volts, or 135 feet of fixtures @120 volts
- Lamps snap in and out of luminaires via innovative zero-clearance lamp bases and lampholders
- New electronic ballast technology offers inaudible operation and a power factor >.95
- Low profile only 3.5" tall with lamp installed
- All luminaires are equipped with integral 1% dimming ballasts and are compatible with 3-wire fluorescent dimmers
- All luminaires dim at the same rate, regardless of variations in lamp length
- Wide color selection, inculding 10 different white hues to choose from







DIMENSIONAL INFORMATION





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LAMP COLORS

WHITE LAMPS: All whites are triphosphor with a CRI of 92

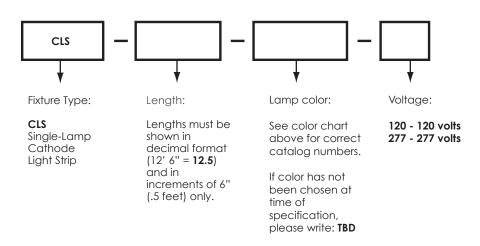
| Cat. No. | Shade of White | Lumens per foot | Efficacy |
|----------|----------------------------|-----------------|------------------|
| 28TC | Incandescent white - 2800° | PK 772 | 77.2 lumens/watt |
| 30TC | Warm white - 3000°K | 759 | 76.2 lumens/watt |
| 35TC | Soft white - 3500°K | 780 | 78.2 lumens/watt |
| 42TC | Cool white - 4200°K | 750 | 75.3 lumens/watt |
| 50TC | Ice white - 5000°K | 738 | 73.2 lumens/watt |
| 65TC | Daylight - 6500°K | 751 | 75.4 lumens/watt |

Photometric information: All photometric values provided by LTL (Luminaire Testing Laboratories, Allentown, PA).

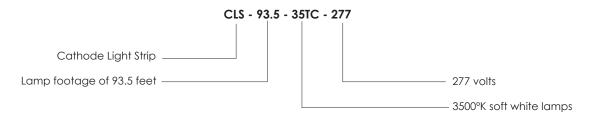
COLORED LAMPS:

Pink White (PW)
Hot Pink (HP)
Red (RD)
Lavender (LV)
Purple (PR)
Sky Blue (SB)
Deep Blue (DB)
Turquoise (TQ)
Aquamarine (AQ)
Standard Green
(GR)
Bright Green (BG)
Gold (GD)
Canary Yellow (CY)
Orange (OR)

ORDERING INFORMATION



Example: One straight light cove, 93.5' in length. Lamp color is 3500°K soft white. Fixtures will operate at 277 volts.





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PRODUCT DATA SHEET Page 4

CATHODE LIGHT STRIP (Model CLS)

ELECTRICAL INFORMATION & SPECIFICATIONS

ELECTRICAL INFORMATION

| Ballast type | Primary voltage | Primary amps / VA | Watts per foot* | Dimming protocol | Maximum luminaires per 20-amp circuit* | Maximum lamp footage per 20-amp circuit* |
|--------------|-----------------------|----------------------|--------------------|---------------------|--|--|
| Electronic | 120 volts 50/60 Hz | .85 amps / 102 VA | 13.6 | 3-wire fluorescent | 18 @ 120 volts | 135 feet |
| Electronic | 277 volts 50/60 Hz | .37 amps / 102 VA | 13.6 | 3-wire fluorescent | 43 @ 277 volts | 322 feet |

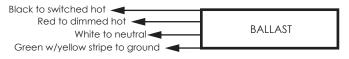
^{*}Values are based on all fixture lengths at 7'6". Actual values may vary dependent upon the selection of luminaire lengths.

Primary Wiring: Branch circuit wiring must contain three (3) conductors + ground in order to utilize dimming feature.

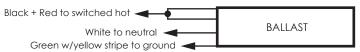
Branch circuit requirements: CLS luminaires must be powered by a dedicated circuit only. Maximum breaker size is 20 amps.

DIMMING: Luminaires are dimmable utilizing 3-wire fluorescent dimmers. Lutron is preferred.

Ballast wiring diagram for dimming operation







SPECIFICATIONS:

Luminaire: Luminaire shall be Cathode Lighting Systems model CLS (Cathode Light Strip), and shall be available in ten (10) standardized straight lengths from 3 feet to 7.5 feet long. Luminaires shall provide a continuous, uninterrupted line of light when installed as instructed. Luminaires shall be pre-assembled, satin-anodized .060" aluminum with a snap-fit cover and one (1) integral, dimmable electronic ballasts.

Lamps: Shall be 50,000-hour T6 cold-cathode fluorescent, color as specified. Lamps shall be provided with single-pin bases for zero-clearance snap-in installation and removal into lampholders. Lamps which are hard-wired to the power supply are not acceptable alternatives. Lamps shall be manufactured with butt-sealed ends to provide complete illumination at each lamp end, and shall have provisions to be locked into place, utilizing the luminaire's lamp-locking clips. Each lamp shall produce 759 lumens per foot (30TC Warm White Triphosphor) and manufacturer shall provide independent test lab reports to substantiate.

Integral Ballasts: Shall be noiseless, electronic 990-volt, high-output, instant-start cold cathode, class P thermally protected, and shall automatically de-energize upon removal of lamps from the luminaire. Ballast power factor shall be >.95

Dimming: Luminaires shall be independently dimmable via a 3-wire fluorescent dimming system and shall dim to 1%.

Approvals: Luminaire shall be UL and cUL-listed under UL category: IEUZ Fluorescent surface-mounted luminaires.

Manufacturer: Shall be Cathode Lighting Systems Inc., Gaithersburg, MD - USA (800) 551-5012.



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