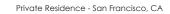
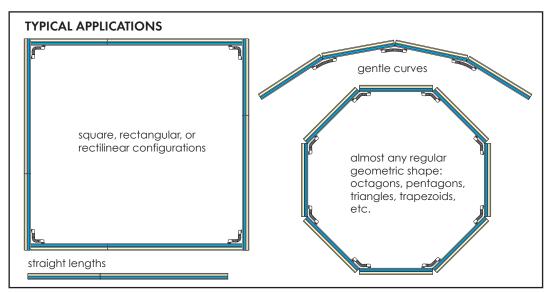
HIGH-EFFICIENCY DOUBLE-LAMP CATHODE LIGHT STRIP (Model H-CLSD) C(NT) US LISTED Patent 7,293,895 Patent 6,454,431 Patent 5,564,818 Beautiful colors from which to choose and the largest palette of white hues available. Ultra-low energy consumption and ultralong lamp life are no longer mutually exclusive. Our new high-efficiency double-lamp Cathode Light Strip may be the smartest choice you can make.

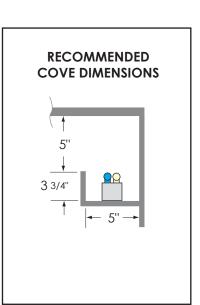


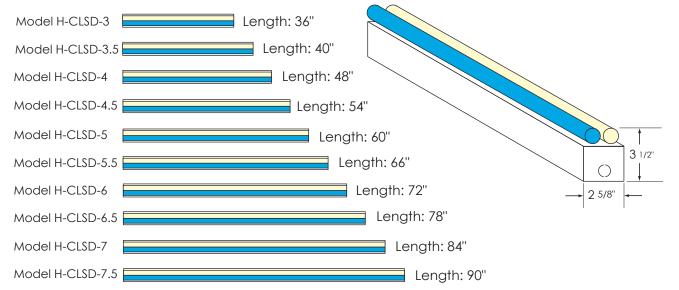


FEATURES & BENEFITS

- Illumination is seamless from end to end, with no dark spots or socket shadow
- Each lamp within the luminaire is independently dimmable for the highest quality color changing effects
- Luminaires are available in 10 standard sizes, from 3' to 7.5' (in 6" increments)
- Reliable, long-life high color-rendering T6 cold cathode lamps (up to 100,000 hours of life)
- Up to 495 feet of fixtures on one 20-amp circuit @ 277 volts, or 210 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 come equipped with integral 1% dimming ballasts, and are compatible with 3-wire fluorescent dimmers
- Uniform dimming regardless of luminaire length combinations
- Wide color selection
- UL-Listed CUL US LISTED









©2010 Cathode Lighting Systems Inc.

LAMP COLORS

WHITE LAMPS: All whites are triphosphor with a CRI of 92, NOTE: LUMEN VALUES ARE FOR EACH INDIVIDUAL LAMP (TWO LAMPS PER LUMINAIRE)

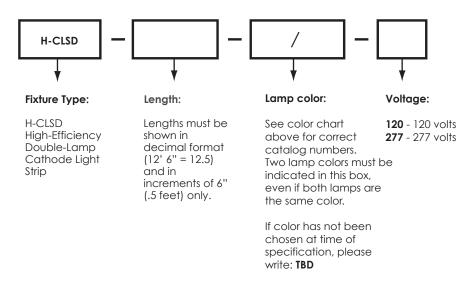
Cat. No.	Shade of White	Lumens per foot	Efficacy
28TC	Incandescent - 2800°K	257	77.2 lumens/watt
30TC	Warm white - 3000°K	253	76.2 lumens/watt
35TC	Soft white - 3500°K	260	78.2 lumens/watt
42TC	Cool white - 4200°K	250	75.3 lumens/watt
50TC	Ice white - 5000°K	246	73.2 lumens/watt
65TC	Daylight - 6500°K	250	75.4 lumens/watt

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

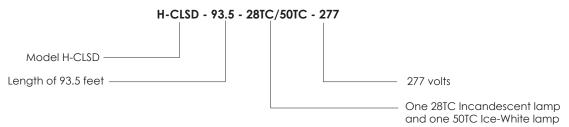
COLORED LAMPS:

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) Amber (AM)

ORDERING INFORMATION



Example: One straight light cove, 93.5' in length. Lamp colors are is 28TC (Incandescent 2800°K) and 50TC (Ice White 5000°K). Luminaires will operate at 277 volts.





©2010 Cathode Lighting Systems Inc.

PRODUCT DATA SHEET Page 4

HIGH EFFICIENCY DOUBLE-LAMP CATHODE LIGHT STRIP (Model H-CLSD)

ELECTRICAL & SPECIFICATION INFORMATION

ELECTRICAL INFORMATION

Ballast type	Primary voltage	Primary amps / VA	Watts per foot*	Dimming protocol		Maximum lamp footage per 20-amp circuit*
Electronic	120 volts 50/60 Hz	.56 amps / 67 VA	9	3-wire fluorescent	28 @ 120 volts	210 feet
Electronic	277 volts 50/60 Hz	.24 amps / 67 VA	9	3-wire fluorescent	66 @ 277 volts	495 feet

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

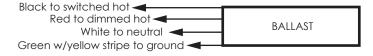
Primary Wiring: Branch circuit wiring must contain three (3) conductors + ground in order to utilize dimming feature.

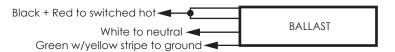
Branch circuit requirements: H-CLSD luminaires must be powered by a dedicated circuit only. Maximum breaker size is 20 amps (16-amp maximum operating load).

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

Ballast wiring diagram for dimming operation (note: each luminaire contains two ballasts)

Ballast wiring diagram for switched "on/off" operation (note: each luminaire contains two ballasts)





SPECIFICATIONS:

Luminaire: Shall be Cathode Lighting Systems model H-CLSD (High-Efficiency Double-Lamp Cathode Light Strip), and shall be available in ten (10) standardized straight lengths from 3 feet to 7.5 feet long. Luminaires will accommodate two (2) independently dimmable lamps. 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 two (2) integral, dimmable electronic ballasts.

Lamps: Shall be 100,000-hour T6 cold-cathode fluorescent, color as specified. Lamps shall be provided with single-pin bases for zero-clearance snap-in installation and removal from lampholders. Lamps that 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 253 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: Each lamp shall be independently dimmable via a 3-wire fluorescent dimming system. Low-end lamp performance shall be 1%. Lutron dimming is recommended.

Approvals: Luminaires 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.

Website: www.CathodeLightingSystems.com



©2010 Cathode Lighting Systems Inc.