



MASS PLASMA COLD CATHODE LIGHTING



G-P LLC

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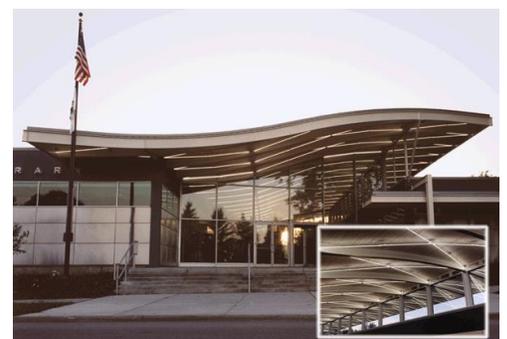
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7MMB6 - Veteran Owned Small Business

Why Mass Plasma Cold Cathode?

- Plasma LM Cold Cathode is electrical discharge lighting which utilizes a large mass electrode.
- Energy Efficient & Environment Friendly.
- Cool operating temperatures (reduces building HVAC load requirements).
- Cold Cathode can bend and shape to almost any configuration.



Energy Efficient

- Typical startup 15 watts per foot & 3-5 watts there after
- Longevity 100k+ hours running 24/7
- Instant start in extreme hot or cold
- No degradation with cycling or effect on bulb life

Environment Friendly

- All lead free glass
- Our glass will not implode or explode when broken like fluorescent lamps
- Longevity means fewer replacement tubes
- No arsenic commonly found as in led light

Applications

- General Illumination
- Cove Lighting
- Architectural Lighting
- Applicable for new and
- Retrofitting exiting fixtures
- Direct tube replacement for LED and fluorescent

MASS PLASMA COLD CATHODE FACT SHEET

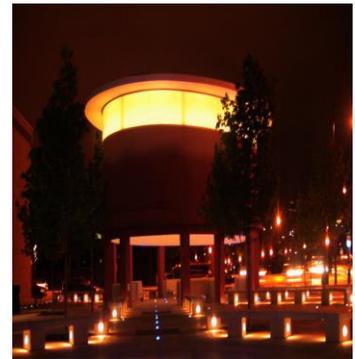
- Public benefits:
 1. **Creates skilled jobs** and economic benefits for Americans
 2. **Reduces carbon footprint** in all areas of manufacturing, energy consumption and shipping
 3. **0 arsenic emissions** and blue light waves harmful to children eyes
- **Made in the USA:** Cold cathode lighting is manufactured in Illinois and has the potential to create tens of thousands of jobs, unlike LED light sources manufactured mostly overseas. Additionally, over 95% of the components used in their manufacturing are made in the USA.
- Cost effectiveness: Cold cathode **lighting retains its brightness and has double the useful life than LED** light sources.
- Maintenance: Cold cathode lighting is **virtually maintenance-free** and easier to install without requirement for venting like LED lighting sources.
- Energy efficiency: According to the U. S. Green Building Council's representative, cold cathode lighting is more energy efficient than LEDs. Cold cathode can provide a constant flow of light in extreme temperatures and caustic environments.



- **LEED credit:** Cold cathode lighting received more LEED credits than any other light source. Cold cathode lighting was used as the primary light source in one of the world's greenest buildings located in Chicago that received Platinum Certification. The U. S. Green Building Council representative stated in its written review of the home, "Efficient lighting was not achieved with traditional toxic CFL's (mercury) or LED's (arsenic), but

instead use cold cathode lighting, which uses very low power over a longer lifespan and is up to 1/3 of the cost over 20 year life."

- Intensity of color rendition: Cold cathode lighting **does not color shift like LEDs.**
- Cost savings: Cold cathode lighting cost less than LED during life of building.
- Life expectancy: Cold cathode lighting has a much longer life expectancy **(100,000+ hours)** than LEDs. To date, hundreds of structures that have had cold cathode lighting installed have had zero failures recorded in past 20 years.
- Heat output: Cold cathode runs with **less heat output than other light sources** especially LEDs thus requiring less air conditioning to cool enclosed areas.
- Cold cathode has **uniform lighting** while LED lighting elements failure starts after a couple of months, which causes unwanted shading on theme lighting.
- Light degradation: Cold cathode lighting does not experience any significant light degradation during its life as opposed to fluorescent lamp which loses up to 25% in the first half of its lamp life and LEDs which may lose as much as 50% within the first 8,000 hours of use.
- Cold cathode is **not susceptible to numerous on/off cycles** which make it ideal for use with occupancy sensors.



Request our interactive Cold Cathode presentation at:
sales@strutchannel fittings.com