Salient Cold Cathode Features

Cold cathode lighting is our business and we may be accused of bias when we boast about it. We are sure, however, that reading about its properties will quickly make converts out of you as well.

Cold cathode has been around for more than 90 years, and yet, we have found it puzzling over the years that so few specifiers seem able to differentiate it from neon or fluorescent lighting. Cold cathode is brighter than neon and more malleable that fluorescent tubing. According to Underwriters Laboratories' Standard 2161, *cold cathode is 1" diameter or larger, operating between 120 and 300 milliamperes.* The simple definition, though, does not even begin to describe the many wonderful features of our products.

- Cold cathode provides uninterrupted linear light. Because it can be mounted with right angle electrodes, the dark spots caused by those fluorescent sockets are totally eliminated.

- Cold cathode is energy efficient. For example, our TPF System uses 6½ watts P.L.F. to produce 460 lumens P.L.F. – that's 70.7 lumens per watt, almost doubling the requirements of California's Title 24. And some of our other systems can produce as much as 768 lumens P.L.F.

- Cold cathode is cost effective. With a minimum rated life of 30,000 hours, at an 84 hours a week usage, that's almost 7 years before re-lamping is required!

- Cold cathode is so flexible, it can be bent back on itself into an arc with a radius as small as 2½".

- Cold cathode offers great colors. Coating the inside of the lamps with an assortment of phosphors produces a wide range of custom colored lights – a vast improvement over the low lumen output of neons and the unreliable theatrical gels used for fluorescents.

- Cold cathode can be dimmed from 100% down to 10% without a single flicker.

- Cold cathode is easy and economical to maintain. Since our HPB ballast operates two parallel wired 8'0" lamps, the failure of a single lamp does not cause a total burn-out in a multiple lamp installation. All you need is a simple ladder to replace that one lamp instead of building an elaborate scaffold to inspect all lamps in the system.

- Cold cathode is excellent for high vibration environments because it does not use a tungsten filament.

- Cold cathode is great for exterior graphics and for delineating structures because it ignites perfectly even in very low temperatures – down to minus 10° F. And, our CCL Lensing System uses a high-impact extruded clear acrylic shield that protects the lamps from rain, snow, birds, and winds up to 180 M.P.H.

- Cold cathode is versatile. It can be used in a whole gamut of applications, whether industrial, commercial or public spaces. And, thanks to our new SE Lampholder, our LST Converter operates under the 1,000V mandated by the National Electrical Code for residential environments.

At National Cathode, we offer the most extensive warranties in the industry: two years for our systems and ten years for all power sources.

And because we recognize the deadline pressures of certain projects, we have developed our Premium Q.S.C. service. For an additional 20% charge, we can deliver up to 200' of cold cathode within 10 working days.

national cathode corp. © 2006

269 Essex Street, Hackensack, NJ 07601
Toll Free: (800) 926-5322
Telephone: (201) 457-9770
Fax: (201) 457-9775
E-Mail: sales@nationalcathode.com

nationalcathodecorp nationalcathodecorp nationalcathodecorp nationalcathodecorp nationalcathodecorp nationalcathodecorp nationalcathodecorp nationalcathodecorp