

Last year the Langley vehicle was comparison-tested on seven different road surfaces at the Texas Transportation Institute. Results exceeded expectations. Accuracy of this new car in measuring highway skid resistance correlated almost exactly with that of a fully equipped test van provided by the Federal Highway Administration.

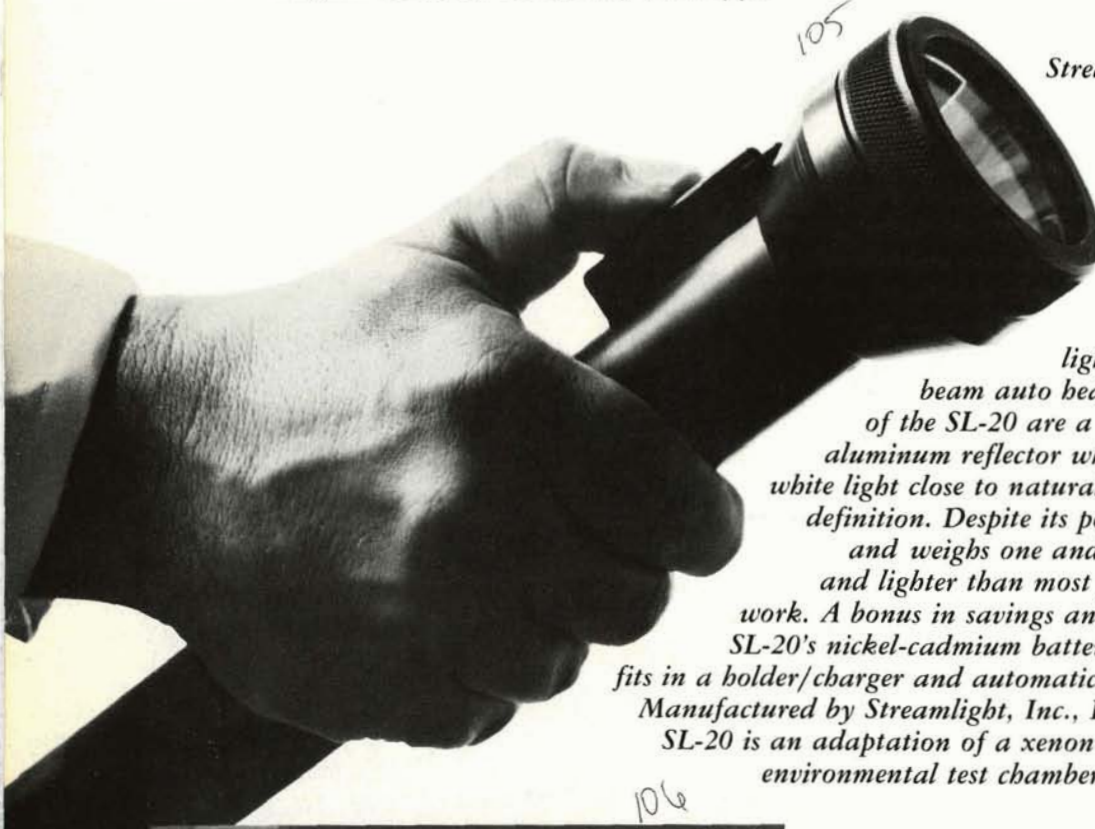
Emergency Lighting

A lighting system originally developed for NASA's Apollo and Skylab manned spacecraft resulted in an industrial spinoff and creation of a whole new company to produce and market the product line. The company is UDEC Corp., Waltham, Mass.

UDEC's "Multi-Mode" electronic lighting systems are designed for plant emergency and supple-

mental use, such as night lighting, "always-on" stairwell lights and illuminated exit signs. Their advantages stem from the qualities demanded for spacecraft installation: extremely high light output with very low energy drain, compactness, light weight, and high reliability.

The Multi-Mode system includes long-life fluorescent lamps operated by electronic circuitry, a sealed battery that needs no maintenance for 10 years, and a solid-state battery charger. A typical emergency installation consists of a master module with battery and an eight watt lamp, together with four remote "Satellight" modules powered by the master's battery. This installation can automatically supply illumination sufficient to read a newspaper in

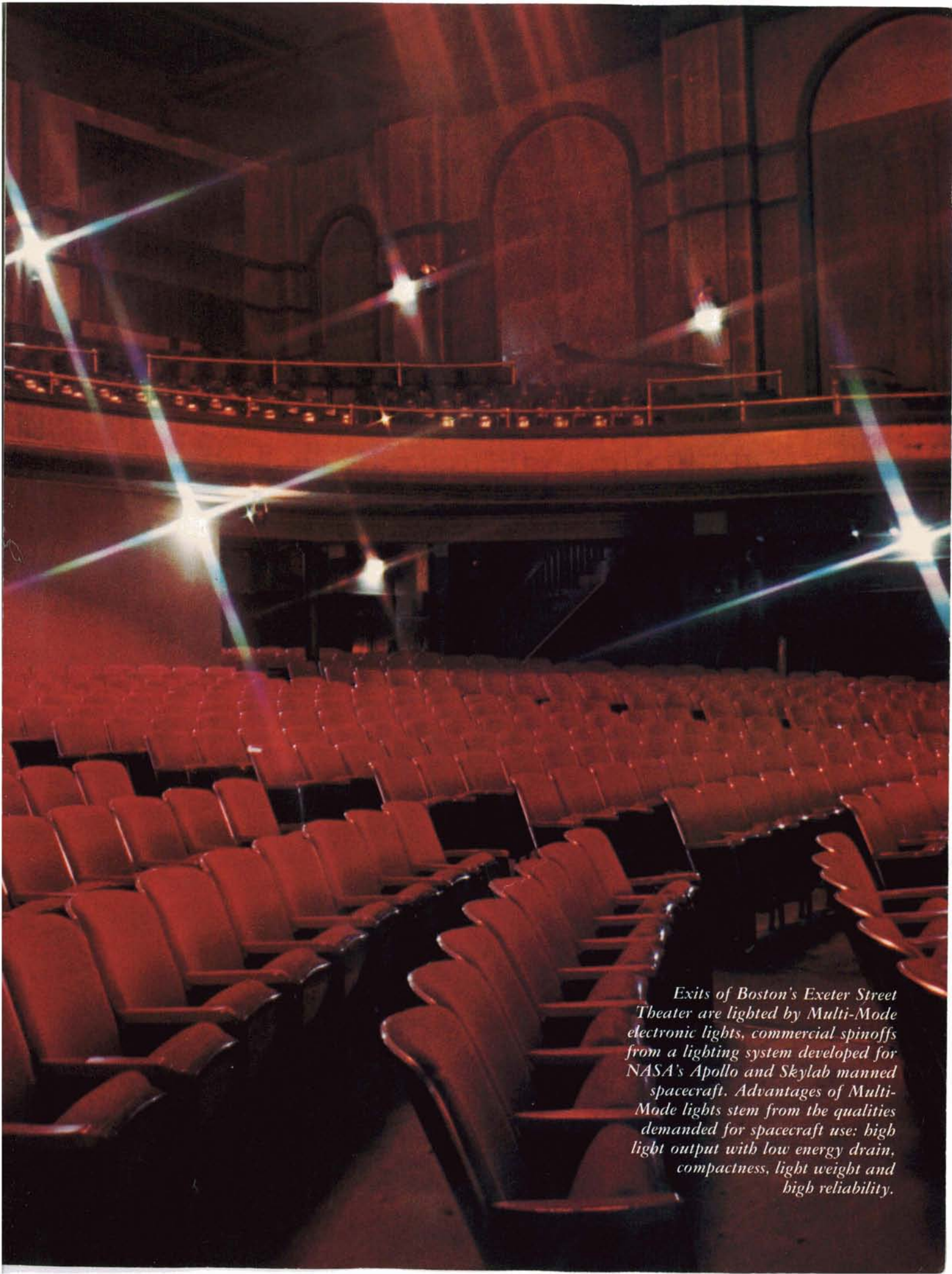


Stream Lite-20, produced primarily for use by law enforcement and other security agencies, is nine times more powerful than a home two-cell flashlight and five times as powerful as five-cell lights. It defines objects and people clearly at three and a half times the range of a conventional flashlight; users say it is like having a low beam auto headlight in your hand. Key elements of the SL-20 are a tungsten-halogen bulb and a spun aluminum reflector which combine to produce a brilliant white light close to natural sunlight, together with very sharp definition. Despite its power, the SL-20 is only a foot long and weighs one and three-quarter pounds; it is shorter and lighter than most five-cell flashlights used in security work. A bonus in savings and dependability is the fact that the SL-20's nickel-cadmium batteries are rechargeable; the flashlight fits in a holder/charger and automatically charges itself when not in use. Manufactured by Streamlight, Inc., King of Prussia, Pennsylvania, the SL-20 is an adaptation of a xenon arc lamp developed for the Apollo environmental test chamber at NASA's Johnson Space Center.



any part of a 20,000 square foot plant, insuring employee safety in the event of a main power black-out.

As a night lighting system for maintenance or security, UDEC fixtures can bypass the battery and operate on normal current at a fraction of the energy demand of conventional night lighting. Industrial customers have realized savings of better than ninety percent with UDEC night lights. UDEC started as a basement industry in 1972 but the company has already sold more than 1,000 lighting systems to building operators.



Exits of Boston's Exeter Street Theater are lighted by Multi-Mode electronic lights, commercial spinoffs from a lighting system developed for NASA's Apollo and Skylab manned spacecraft. Advantages of Multi-Mode lights stem from the qualities demanded for spacecraft use: high light output with low energy drain, compactness, light weight and high reliability.