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For Immediate Release

Energy Efficient Fluorescent Lighting Designed and Temperature Tested for Cold Storage Facilities

MetalOptics® superior design capabilities and ability to leverage fluorescent lamp and ballast technology expertise have combined to create a new series of fluorescent luminaires to perform in temperatures to -20°F / -29°C. A growing segment of the consumer foods market is feeding the demand for more cold storage warehouse space. Recent advancements in fluorescent lamp and ballast technology offer not only the benefit of lower energy consumption but lower heat contribution to the cooling load over HID alternatives. T5HO and T8 fluorescent lamps offer **up to 50% energy savings** over metal halide systems. Also, due to lower input watts, heat load contribution to the cooled space can be reduced by up to 50% over HID systems. Additional dollar savings are offered through Energy Policy Act (EPAct) tax benefits and potential utility offered rebates.

MetalOptics offers products with exceptional performance over a range of cold storage environments from +0°C (32°F) for refrigerated fresh produce and fresh meat; to -18°C (0°F) for up to six months frozen storage; and -29°C (-20°F) for ice cream and longer-term frozen storage up to twelve months. MetalOptics products include the MJF14, MJF164 and MJF24 cold storage luminaires. The MJF series of fluorescent luminaires has been tested at each design temperature for light level output. "Because these luminaires were designed especially for cold storage applications they actually perform better in these temperatures than in normal 25°C environments," stated Jeff McDonald, Director of Brand Strategy for MetalOptics. All three fixture sizes are enclosed and gasketed and offered with T5HO and T8 lamps. The MJF14 (1' x 4') fixture is especially suited for aisles up to 25' mounting height using the task beam optics. Spread beam optics are designed for loading dock and staging areas with mounting heights to 18 feet. The MJF164 (16" x 4') luminaire is suited for aisles up to 30' mounting height using the task beam optics and with spread beam optics can be used for loading dock and staging areas with mounting heights up to 24 feet. The MJF24 (2' x 4') luminaire is for aisles and area lighting where higher foot-candle levels are desired or for mounting heights over 30 feet. All three fixtures use specular aluminum 95% reflectance Alanod MIRO®4 reflectors that are precision formed for maximum efficiency. Housings are powder coated and can be mounted with a two-point chain or an aircraft cable hanger. Motion sensor control and integral emergency battery backup are also available as options for most models.

MetalOptics designs and engineers a variety of fluorescent luminaires to perform in cold storage environments. By fine tuning components and designing for influencing factors our luminaires retain heat to keep lamp lumen output high; use specular Alanod MIRO®4 material reflectors for controlled light output; and manage lamp bulb wall temperature for optimum performance. These are all an integral part of MetalOptics long history of using prototype testing procedures to get the highest performance from

fluorescent lighting. Each luminaire is tested in a state-of-the-art laboratory grade thermal chamber at each published cold storage temperature to accurately predict installed performance. Ramping tests are performed starting at 25°C to serve as the benchmark and then the temperature is lowered progressively to colder set points. Fixtures remain stabilized while a variety of key temperatures are recorded for components and the light output is measured and analyzed. This detailed data allows for the designer and installer to maximize product selection.

The Cold Temperature Thermal Factor indicated for each fixture type is used when calculating lighting levels as an additional light loss factor (LLF). In many cases, this factor is greater than one because fixtures do not necessarily create internal temperatures in normal 25°C environments that align with the optimum lamp lumen output. MetalOptics MJF series luminaires *actually perform better in cold environments* than they do at normal 25°C temperatures. They retain the heat necessary to optimize lamp performance at cold temperatures of 34°F / 2°C, 0°F / -18°C and -20°F / -29°C.

MetalOptics, an Acuity Brands Lighting company based out of Austin, Texas, is a U.S.A.-based manufacturer of performance lighting fixtures for new and retrofit projects aimed at improving energy performance. MetalOptics has historically served Energy Service Companies (ESCOs) and is a supplier to retrofit and renovation service provider channels. The name MetalOptics was chosen to state the commitment of the company to consistently develop superior optics by maximizing the use of specular reflectors. Coupled with high-quality thermal management systems and on-site and independent testing of a variety of performance metrics, MetalOptics delivers superior lighting solutions that maximize lamp and ballast performance. Since 1985, MetalOptics has added a dimension of shape and finish to its retrofit-driven, functional product line. MetalOptics flexible manufacturing setup is equally well suited to developing complex reflectors and innovative housings specifically tailored to the needs of its customers.

Acuity Brands, Inc. owns and operates Acuity Brands Lighting. With fiscal year 2007 net sales of approximately \$2.0 billion, Acuity Brands Lighting is one of the world's leading providers of lighting fixtures and related services and includes brands such as Lithonia Lighting(R), Holophane(R), Peerless(R), Mark Architectural Lighting(R), Hydrel(R), American Electric Lighting(R), Gotham(R), Carandini(R), MetalOptics(R), SpecLight(R), Antique Street Lamps(TM), and Synergy Lighting Controls(R). Headquartered in Atlanta, Georgia, Acuity Brands employs approximately 7,000 associates and has operations throughout North America and in Europe and Asia.

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