High-bay ceiling light achieves 17,000 lumens brightness at 300W

Global Lighting Technologies (GLT) has utilized its advanced LED-based edge lighting technology in conjunction with Advanced Thermal Devices' (ATD) Loop Heat Pipe heat dissipation technology to develop a new high brightness luminaire for use in high bay recessed ceiling light applications.

The new ceiling light, ATD Model # SL-300-C7-NW, offers 17,000 usable lumens at a rated power of 300W and a color temperature of 4,000-5,000K. Slim and lightweight for a luminaire of its power and performance, it is ideal for a range of indoor applications such as theaters, auditoriums, convention centers, large open office spaces, parking garages and warehouses.

The luminaire measures 600 x 600 x 115 mm (23.6 x 23.6 x 4.5 inches) and weighs 17 Kg (37 lbs.), including adapter, and is waterproof. For illumination, it incorporates a light guide plate (LGP) from Global Lighting Technologies edge-lit by high brightness LEDs spaced along the edge of the LGP, which is only 5 mm (0.196 inches) thick, contributing to the slim profile, light weight and modularity of this easy-to-install unit.

Heat dissipation is addressed by ATD's Loop Heat Pipe (LHP), a passive, hermetic closed-loop heat-transfer device requiring no external power input that provides heat transport at distances up to several meters, high power (up to several hundred Watts), and utilizes flexible, bendable connecting pipe, maintaining high heat

transfer capability in an anti-gravity direction. LHP can circularly transport waste heat and dissipate it to the surrounding environment by natural convection without extra power, effectively solving thermal problems and extending the lifetime of the LEDs.

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