

LRTH-DFX LED



with **365DisInFx™**
UVA technology

The Visioneering LRTH-DFX combines the classic center basket design of the popular LRTH and 365DisInFx™ UVA technology to help in the inactivation of surface bacteria where people are present and conventional lighting is needed. 365DisInFx™ UVA technology has demonstrated inactivation rates of up to 99.7% in 8 hours when tested with several common pathogens like MRSA, *E. faecalis*, and *E. coli*¹.



Features:

- 1 *Helps inactivate surface bacteria as an additive measure*
- 2 *Low-dosage UVA for 24-hour operation in occupied spaces*
- 3 *UV Stabilized Ribbed Frosted Acrylic Diffuser*
- 4 *UV resistant anti-microbial white, polyester powder painted housing*



Applications:

- Office Areas
- Classrooms
- Hospitals
- Waiting Rooms
- Retail Stores
- Nursing Homes
- Fitness Centers
- And more...

Technical Summary:

Safety: 24-hour dosage is designed to operate below human health exposure limits per IEC 62471 Photobiological Safety for Lamps and Lamp Systems standard and American Conference of American Hygienists (ACGIH®) TLVs® guidelines.

Disinfection Light Source: 365nm UVA light emitted is invisible to the human eye and does not impact CCT or CRI.

Light Control: Fixture LED white light source may be controlled by wired or wireless controls and is dimmable to 1%. The UVA disinfection light-source has a fixed output and operates continuously on a separate circuit.



UVA Test Results & Notes:

¹365DisInFx™ UVA disinfection technology was tested using in vitro methods (as described in Livingston¹ and Kvam²), which resulted in 99.7% reduction in MRSA on surfaces exposed to 3W/m² of 365 nm UVA over a single 8-hour period. Results of this testing also showed significant reduction over a similar exposure period of certain common pathogens, including *Staphylococcus aureus*, *Enterococcus faecalis*, *Escherichia coli*, *Acinetobacter baumannii*, *Pseudomonas aeruginosa*, *Candida albicans* and *auris*, associated with hospital-acquired infections (HAIs). Photobiological science and mathematical modeling enables us to calculate expected inactivation rates for 24-hour continuous operation of the 365DisInFx™ UVA technology.