



Disinfection Solutions for Occupied Spaces

Continuous UVA disinfection of surface
bacteria in places where people convene

Current 

365DisInFx
UVA technology

High-efficiency luminaires with integrated 365DisInFx™ UVA technology



- Helps in the inactivation of surface bacteria as an additive measure in a total disinfection plan.
- Low-dosage UVA is integrated into white light fixtures for continuous 24-hour operation in areas where people are present.
- Fixture LED white light source may be controlled by wired or wireless controls and is dimmable to 5%.
- Demonstrated inactivation rates of up to 99.7% in 8 hours when tested with several common pathogens including MRSA, *E. faecalis*, and *E. coli*¹.

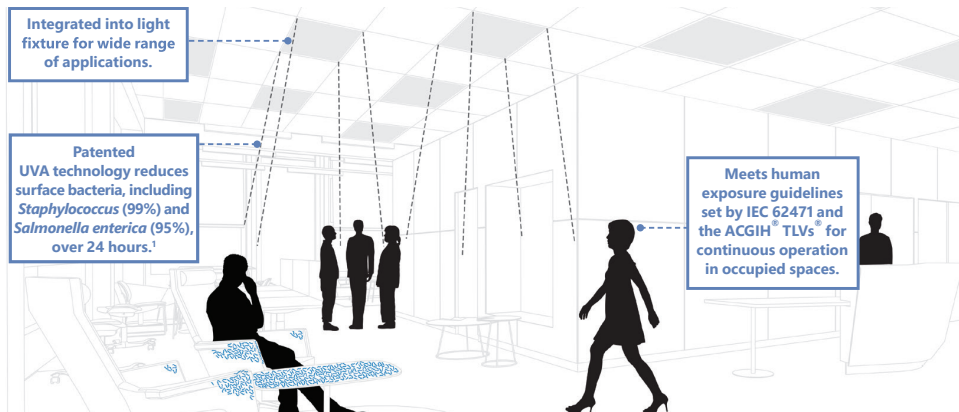
Compliant • Continuous • Test-Driven

An ever-present solution backed by UL certification, IEC standards and ACGIH® guidelines

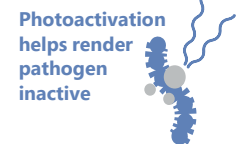
- Complies with human exposure limits per IEC 62471 Photobiological Safety of Lamps and Lamp Systems standards and American Conference of Governmental Industrial Hygienists (ACGIH®) TLVs® guidelines when installed as directed.
- Current conducts third-party testing to substantiate our claims and validate our predictive models and is certified through UL's Data Acceptance Program (DAP) to perform testing to the IEC 62471 safety standard.
 - UL certified direct LED UVC luminaire.
- Flexible LED solutions for 24-hour occupancy, providing an added layer of protection along with masks, hygiene and social distancing.

If combining UVA and UVC solutions, please consult a trained product application representative to ensure the total irradiance (UV dose) does not exceed recommended human exposure limits. This may negatively impact inactivation rates.

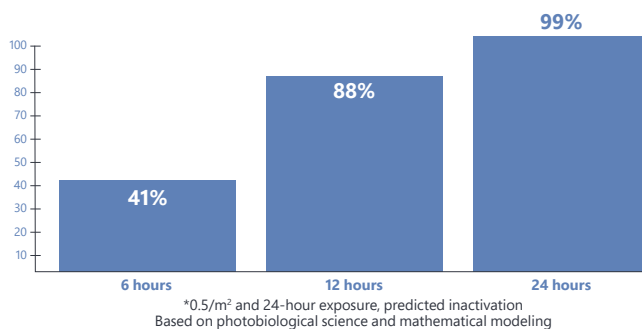
UVA: Inactivation in Action



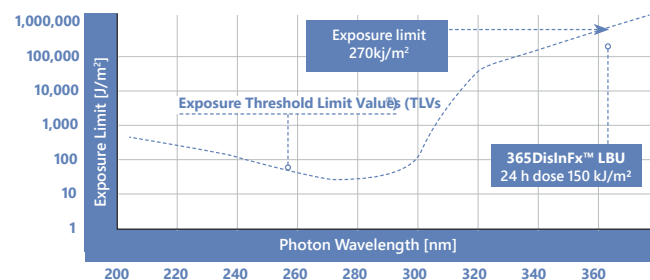
Continuous Inactivation



Inactivation over 24 hours* *Staphylococcus aureus*



ACGIH® Exposure Threshold Limit Values (TLVs®) vs. Wavelength



Continuous low dosage at 365 nm inactivates surface bacteria and fungi below ACGIH® TLVs®

UVA Test Results & Notes:

1. 365DisInFx™ 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.

2. Kvam E, Benner K (2017) Disinfection via LED Lighting: summary of mechanism and results for 365 nm-mediated inactivation of microbes. GE Global Research Technical Information Series 2017GRC0545, GE Confidential (Class 3) Kvam E, Benner K. "Mechanistic insights into UV-A mediated bacterial disinfection via endogenous photosensitizers." *Journal of Photochemistry and Photobiology B: Biology*. 2020;209:111899. doi:10.1016/j.jphotobiol.2020.111899.

* inoculated steel disk carriers, modification of ASTM E-2197-02 • using a benchtop device that delivered the 3W/m² irradiance

Ordering Information and Details to Consider

	Voltage	Size	Lumens	Color Temp	Efficiency	CRI	Controls & Sensors	Additional Technology
UVA Technology Surface Disinfection Products								
LBU Series 	120V or 277V	2'x2'	2,000–4,000	3,500K, 4,000K	Up to 81 LPW	80	0–10V Dimming	365DisInFx™ Technology White Antimicrobial Paint
LBU Series 	120V or 277V	2'x4'	2,000–6,000	3,500K, 4,000K	Up to 81 LPW	80	0–10V Dimming	365DisInFx™ Technology White Antimicrobial Paint
LBU Series 	120V or 277V	1'x4'	2,000–4,000	3,500K, 4,000K	Up to 81 LPW	80	0–10V Dimming	365DisInFx™ Technology White Antimicrobial Paint
AVU Series 	120V or 277V	4'	2,000–4,000	3,500K, 4,000K	Up to 100 LPW	80	0–10V Dimming	365DisInFx™ Technology White Antimicrobial Paint
LDU Series 	120V or 277V	6"/8"	1,000–4,000	3,500K, 4,000K	Up to 52 LPW	80	0–10V Dimming	365DisInFx™ Technology White Antimicrobial Paint

365DisInFx™ UVA Ordering Number Logic

LBU Series, LDU Series, AVU Series with catalog logic "AD"

Family	Fixture Type	Generation	Voltage	Nominal Lumens	Distribution	UV	CR/CVT	Controls	Mounting	Finish
LBU Series AVU Series LDU Series						AD				
						AD = All Day Continuous				

We can help you make an informed decision

- UV radiation can pose a risk of personal injury. Overexposure can result in damage to eyes and bare skin. To reduce risk of overexposure, equipment must be installed in accordance with manufacturer's site planning and application recommendations, including minimum ceiling height restrictions.
- UV solutions are intended for common high-traffic spaces and not recommended for dwellings or home use.
- Installation of the devices should be performed by qualified professionals as detailed in Current's installation guide.
- To allow for occupancy during use, Current products comply with IEC 62471 – Photobiological Safety of Lamps and Lamp Systems standards and American Conference of Governmental Industrial Hygienists (ACGIH®) TLVs® guidelines when installed as directed.
- Current's UV products are meant to be used in conjunction with other protective measures like manual cleaning and the use of proper PPE. They are not a substitute for other measures.
- Current products are not intended for use as a medical device.
- If combining two or more UV solutions, whether from Current, and/or other manufacturers, please consult a trained product application representative to ensure the total irradiance (UV dose) does not exceed recommended human exposure limits. To the extent UV solutions are combined, it may impact inactivation rates.



ALBEO

ARIZE

DAINTREE WIRELESS CONTROLS

EVOLVE

FORUM

GE LAMPS

GTX

IMMERSION

LIGHTGRID

LIGHTSWEEP

LUMINATION

TETRA

Current - GLI Brands

25825 Science Park STE 400
Beachwood, OH 44122-7392

LED.com

© 2023 Current Lighting Solutions, LLC. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

(Rev 06/01/23)

DSX115-365DisInFx-UVA-Technology-Flyer