LRK-TRH-DFX

LED - Recessed Troffer Retrofit Kit - Type H with 365DisInFx™ UVA Technology

Project: Notes:

Catalogue #:



Type:

Product Description

The LRK-TRH-DFX is a low-profile LED retrofit kit that combines a single shallow semiround lens and 365DisInFxTM UVA technology to help in the inactivation of surface bacteria where people are present and conventional lighting is needed. This retrofit kit is ideal for renovating fluorescent troffers and parabolic luminaires and provides modern styling and increased visual comfort.



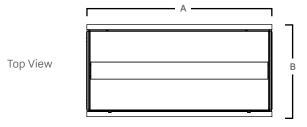
Approvals

- Approved to CSA/UL standards. UL listed for insulated ceilings.
- Tested in accordance to IESNA LM-79.
- Suitable for damp locations.





Dimensions





Size	А	В	С
1x4	47 7/8"	11 7/8"	2 1/2"
2x2	23 7/8"	23 7/8"	2 1/2"
2x4	47 7/8"	23 7/8"	2 1/2"

Consult installation guide for exact dimensions.

Notes: 1. Livingston SH, Cadnum JL, Benner KJ, Donskey CJ (2020) Efficacy of an ultraviolet-A lighting system for continuous decontamination of health care-associate ns on surfaces. Am. J. Infect. Control 48: 337-339. https://doi.org/10.1016/j. pathop Inoculated steel disk carriers, modification of ASTM E-2197-02

using a benchtop device that delivered the 3W/m tradiance
Kvam E, Benner K (2017) Disinfection via LED Lighting: summary of mechanism and results for 365nm-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

(class of Name, bernier A. Mechanistic inalistic industry and an analysis) and an advantage of the second strength using a benchtop device that delivered the 3W/m² irradiance.

Technical Summary

Test Results: 365DisInFx™ UVA disinfection technology was tested using in-vitro methods (as described in Livingston, Kvam^{1,2}) which resulted in 99.7% reduction in MRSA on surfaces exposed to 3W/m2 of 365nm 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.

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 Governmental Industrial 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.

Optical System

Ribbed frosted acrylic diffuser, specially formulated for enhanced UV transmission and resistance. Captive diffuser is secured with tamper resistant brackets. Indirect reflectors are precision formed and contoured to provide soft, low-glare, indirect illumination, while maintaining high-efficiency and a wide, uniform light distribution.

Mounting

This luminaire features two steel brackets which are secured to the existing fixture with selft-tapping screws. It has been specifically designed for retrofitting recessed T-Bar applications.

Construction

Post-painted precision-formed code gauge steel door-frame and brackets. The driver and light engine are integral to the TRH-DFX's door frame for quick and easy installation.

Finish

UV resistant white, polyester powder painted housing.

Electrical

Long life white LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 lumen performance >50,000 hrs.

Warranty

5 year limited warranty on visible light portion of fixture.

Caution

UVA emitted from this product. Install in compliance with manufacturer instructions to prevent risk of personal injury from UV radiation.

End View

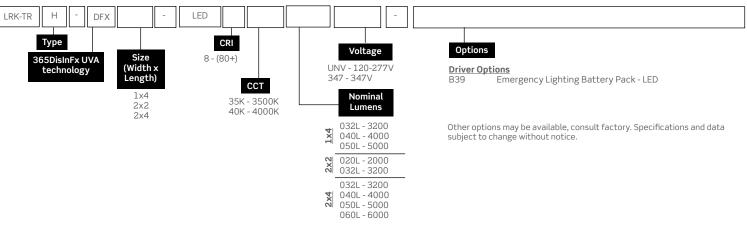
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Project:	Catalogue #:	Туре:
Notes:		

Order Key

EXAMPLE: LRK-TRH-DFX2x4-LED840K050LUNV



Performance Data

LED Performance Data							
		UV					
Size	Nominal Lumens	Delivered Lumens	Watts	Watts			
1x4	3200	3200	26	30			
	4000	4000	33	30			
	5000	5040	44	30			
2x2	2000	2040	16	15			
	3200	3010	25	15			
2x4	3200	3200	26	30			
	4000	4000	33	30			
	5000	5040	44	30			
	6000	6020	54	30			

Values based on 840K with standard lens at 25C

Make an Informed Decision

- UV radiation can pose a risk of personal injury. Overexposure can result in damage to eyes, bare skin, and immune system. To reduce risk of overexposure, equipment must be installed in accordance with site planning and application recommendations.
- UV solutions are intended for common high traffic spaces and not recommended for dwellings or home use.
- Installation of the devices must be performed by qualified professionals as detailed in the device installation guide.
- To allow for occupancy, 365DisInFx[™] UVA products comply with IEC 62471 Photobiological Safety for Lamps and Lamp Systems standard and American Conference of American Hygienists (ACGIH®) TLVs[®].
- 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.
- 365DisInFx™ UVA products are not intended to be used as a medical device.
- When combining two or more UV solutions, regardless of the manufacturer, 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 affect the deactivation and inactivation rates.
- ACGIH® and TLVs® are registered trademarks of American Conference of Governmental Industrial Hygienists, Inc.