

Project Name	Type
Catalog #	Date

# UV-C RECESSED TROFFER

UVCT RECESSED

vega<sup>®</sup>UV-C specular reflector material is tuned to reflect and amplify UVC wavelengths - boosting the irradiance by 42%.



2x4 Size  
2 UVC lamps shown  
Pictured with optional wire guard

### APPLICATIONS

- Office Spaces
- Conference Rooms
- Educational Facilities
- Municipal Facilities
- Financial Institutions
- Retail Spaces
- Hospitality Areas
- Corridors
- Designed for unoccupied spaces

### APPROVALS

- Tested to UL1598 and CSA C22.2#250.0.0:2008
- BAA Compliant
- RoHS Compliant
- XtraLight is an EPA registered establishment
- Appropriate parts/test guidelines were performed by ATAL [www.ata-labs.com](http://www.ata-labs.com)

### FEATURES

- Recessed mounted troffer delivers high power UVC disinfection when space is unoccupied
- vega<sup>®</sup>uv-c high-reflective material by Almeico is designed to accelerate the sanitizing power of UVC wavelengths
- Uses one or two quartz glass germicidal UVC lamps (254 nm wavelengths) with ceramic caps with easy lamp replacement
- Antimicrobial white polyester powder coat post painted
- Secure wire guard for lamp protection
- Sensor turns the lamps off when room is occupied
- Optional tamper proof fasteners prevent access to components other than authorized servicing

### CONSTRUCTION

- Housing is code 22 gauge, pre-painted white steel
- End caps riveted to housing for strength and rigidity
- Components are accessible from plenum side
- Quartz glass germicidal UVC lamps with ceramic end caps available.
- Formed aluminum reflector
- T-Bar pull out tabs and 4 holes for securing
- 1/2 in. KO's on roof for electrical entry
- 95% efficient UVC reflective material

### UVC

- 254 nm wavelength
- Irradiance (on center): Starting at 1.45 mJ/cm<sup>2</sup>
- Produces no ozone or other secondary contaminants

### ELECTRICAL

- Voltage: 120-277VAC input
- UVC 2 ft lamp: 20W each, 4 ft lamp: 40W each
- Quartz glass germicidal UVC lamps with ceramic end caps available.
- Two 6 ft Whips

### ACCESSORIES

- Recessed troffer flange kit available, ordered separately (consult factory)
- Occupancy sensor lighting control with PIR sensors up to 1000 sq ft
- Optional 11 gauge wire guard over UVC lamps
- Tamper proof screws option available (consult factory)

### WARRANTY

- Fixture backed by XtraLight's UV warranty

### ORDER LOGIC

### SAMPLE CATALOG NUMBER: UVCTR22-4L-OSC

UVCTR

	-		-	
SIZE	LAMPS		OPTIONS	
22 2x2	2L	2 LAMPS	WG	UVC wire guard
24 2x4	4L	4 LAMPS	TP <sup>1</sup>	Tamper proof fasteners
			OSC	Integrated Occupancy Sensor



For more information on UV-C Systems

1 Available when wire guard is selected as an option

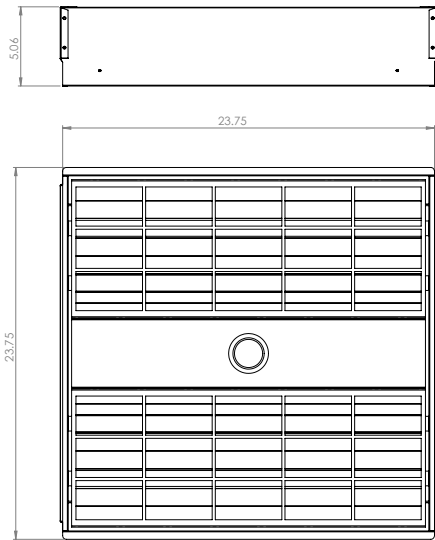


# UV-C RECESSED TROFFER

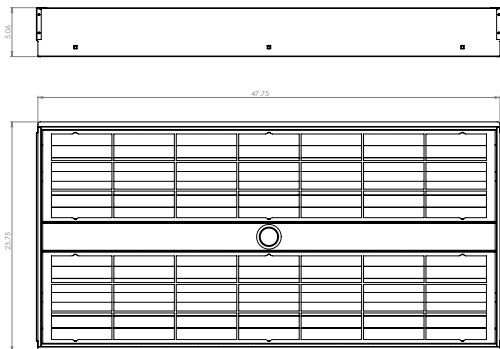
## UVCT RECESSED

### DIMENSIONAL DATA

#### 2X2 SIZES SHOWN



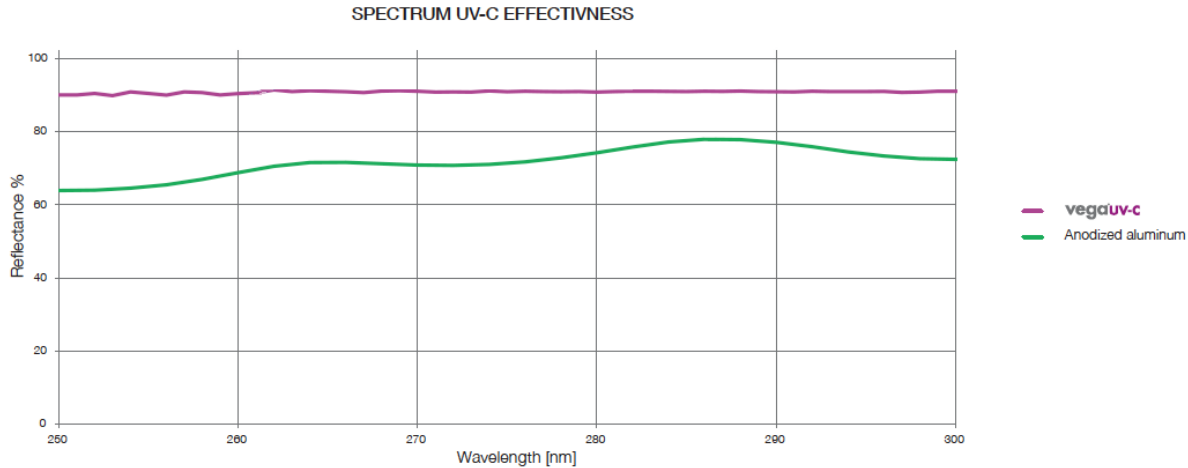
#### 2X4 SIZES SHOWN



# UV-C RECESSED TROFFER

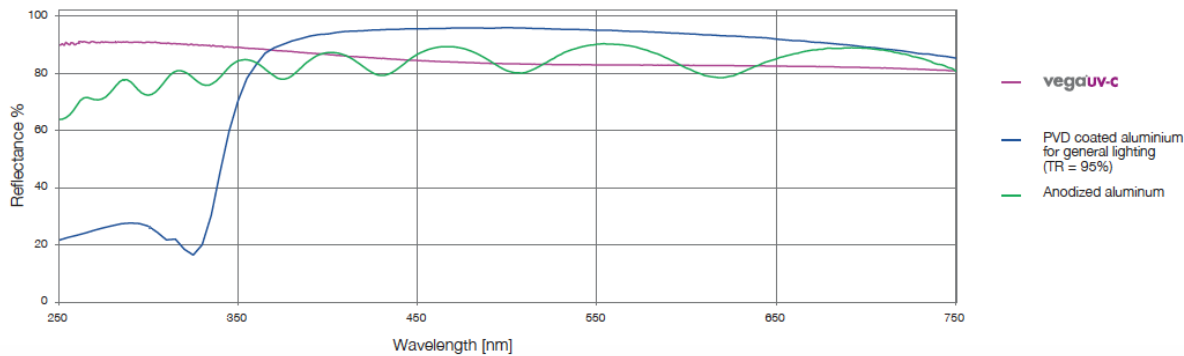
## UVCT RECESSED

### REFLECTIVE MATERIAL DATA



Reflective Material **performance** when compared to other reflective material

COMPARISON REFLECTANCE SPECTRA OF DIFFERENT MATERIALS



WAVELENGTH	TYPICAL	STANDARDS
vega®uv-c Hemispheric reflectance @245 nm	90% ± 2%	-

### PRECAUTIONS

- DO NOT USE ON HUMANS OR PETS
- INDOOR USE ONLY

**CAUTION:** Observe basic safety precautions including the use of personal protective equipment (PPE) while operating and handling the system. Please read and follow all instructions, warnings, and safety notices. Do not expose skin or eyes to direct or indirect UVC rays as UVC energy can be harmful to these areas.

**WARNING:** To guard against damage, please follow observe basic safety precautions including: Wear protective gear when operating and handling the system including the following Personal Protective Equipment (PPE): goggles, gloves, and face shields. Please read and follow all documents including: [Operational and Maintenance Guide](#), all instructions, warnings, and safety notices. Do not expose skin or eyes to direct or reflected UVC rays as they can be very harmful to these areas.

# UV-C RECESSED TROFFER

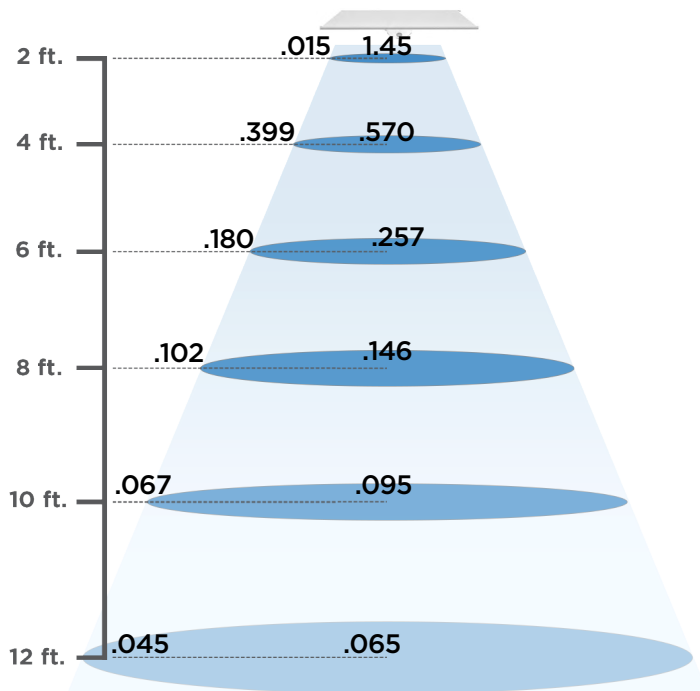
## UVCT RECESSED

### IRRADIANCE VALUES

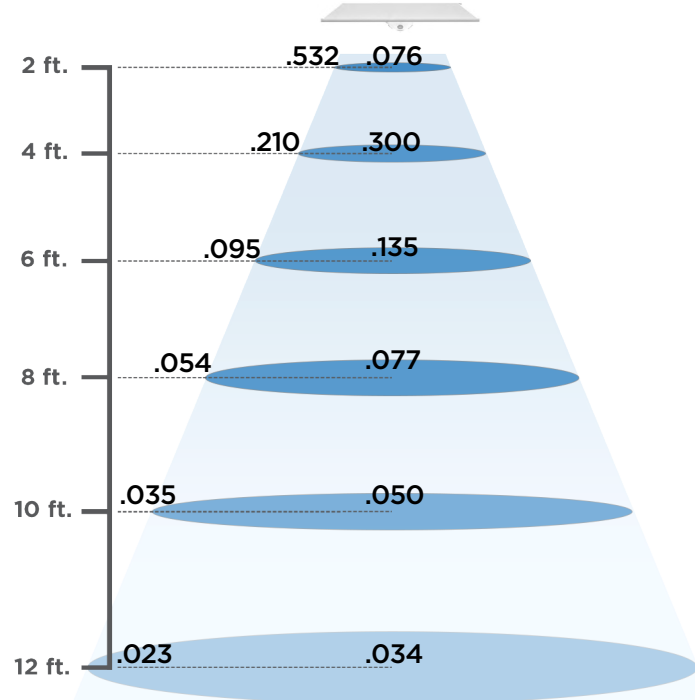
#### Radiant Exposure Dosages

MODEL	DISTANCE	CENTER	OFF-CENTER
2x4 4 Lamp	2 ft.	1.45 mJ/cm <sup>2</sup>	1.02 mJ/cm <sup>2</sup>
	4 ft.	.570 mJ/cm <sup>2</sup>	.399 mJ/cm <sup>2</sup>
	6 ft.	.257 mJ/cm <sup>2</sup>	.180 mJ/cm <sup>2</sup>
	8 ft.	.146 mJ/cm <sup>2</sup>	.102 mJ/cm <sup>2</sup>
	10 ft.	.095 mJ/cm <sup>2</sup>	.066 mJ/cm <sup>2</sup>
	12 ft.	.065 mJ/cm <sup>2</sup>	.045 mJ/cm <sup>2</sup>
2x2 4 Lamp	2 ft.	.760 mJ/cm <sup>2</sup>	.532 mJ/cm <sup>2</sup>
	4 ft.	.300 mJ/cm <sup>2</sup>	.210 mJ/cm <sup>2</sup>
	6 ft.	.135 mJ/cm <sup>2</sup>	.095 mJ/cm <sup>2</sup>
	8 ft.	.077 mJ/cm <sup>2</sup>	.054 mJ/cm <sup>2</sup>
	10 ft.	.050 mJ/cm <sup>2</sup>	.035 mJ/cm <sup>2</sup>
	12 ft.	.034 mJ/cm <sup>2</sup>	.024mJ/cm <sup>2</sup>

2X4 4 LAMP mJ/second DOSAGE



2X2 4 LAMP mJ/second DOSAGE



For more information on  
UV-C Systems

