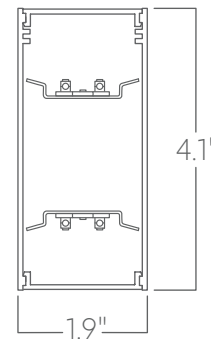


The GUV Series of architectural luminaires features standard direct lighting and indirect 275nm germicidal ultra violet light for upper-room air disinfection.

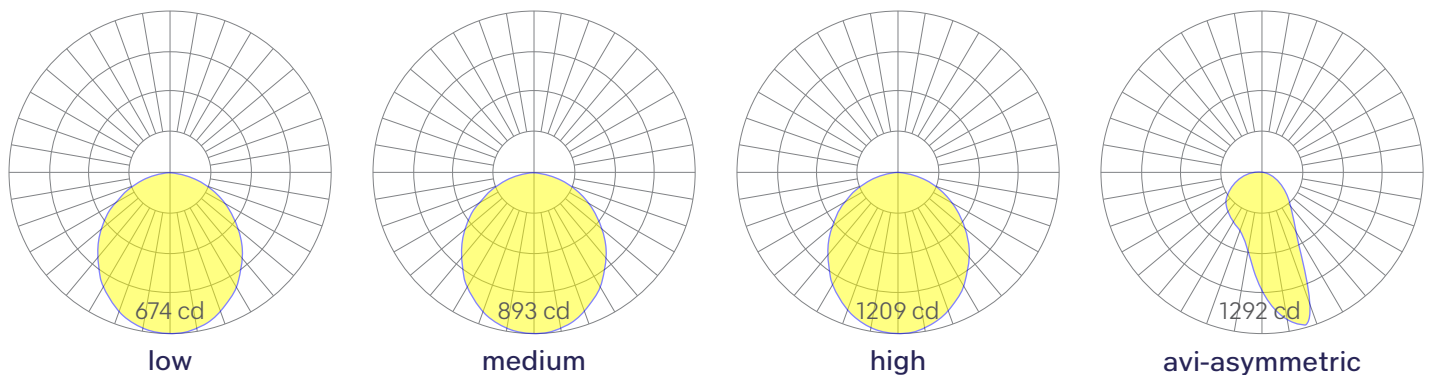
## Features

- Highly effective upper-room air disinfection
- Extruded recycled aluminum housing
- Aluminum core LED boards, specifiable optics
- Specifiable color temperature. CRI > 90, R9 > 50
- Custom lengths, welded patterns, and finishes available
- Integral specifiable dimmable drivers or PoE
- 5 Year, 50,000 hour warranty, damp location rated
- Compatible with all wood ceilings
- WELL Building Standard compatible [learn more](#)

## Dimensions



## Optics



Representative distribution and peak candela. For other options see order information or IES files [here](#).

## Ordering Information

For each option group below specify one option. If you don't see your preferred option listed, contact us for [help](#).

1	Fixture ID	2	Length	3	Color Temperature	4	Output
	LS1 GUV	4	4 ft	27	2700K/90 CRI	LOW	Low output
		8	8 ft	30	3000K/90 CRI	MED	Medium output
		X'-X"	Specify Length Precision lengths may be specified to the nearest 1/8".	35	3500K/90 CRI	HIGH	High output
		PAT	Pattern Provide dimensioned drawing.	40	4000K/90 CRI	CUST	Custom output Specify watts or lumens
5	Voltage	6	Driver	7	Finish	8	Mounting
	UNV Universal (120/277V) 347V 347V Available for DB driver only	DB Standard 0-10V 1%	DB.1% 0-10V 0.1%	W White	AC Aircraft Cable (50")		
		ELV Reverse Phase 1% (120V only) For compatible dimmers see <a href="#">here</a> .	TRI Forward phase (120V only) For compatible dimmers see <a href="#">here</a> .	BLK Black	AC3.5 3.5" canopy + jbox adaptor adaptor must be mudded-in. White stems and canopy unless option specified in section 12.		
		LDE1 Lutron Digital EcoSystem	DALI DALI-2 Driver	SLV Silver	ACCC Aircraft cable to Conduit Pipe Canopy		
		PoE Power over Ethernet.	DMX DMX512 All DMX drivers set to default address 001 and provided in remote enclosers. Contact us for other addressing needs.	CC Custom Color See finish options <a href="#">here</a> .			
				CWF Custom Wood Finish See finish options <a href="#">here</a> .			
9	Optics	10	Sensors/Controls	11	Circuit	12	Options
	FL Flat diffuser	NA None	EIS Enlighted sensor	NA None	STD White Canopy + White Cord		
	AVI ASY Asymmetric optic	WISM Wattstopper Occupancy	WISD Wattstopper Daylight	EMPCK Emergency battery pack	CAN-X Canopy + color See finish options <a href="#">here</a>		
		ACM Acuity nLight® module only	ACS Acuity nLight®	EMCKT Emergency circuit May require additional power feeds.	SJ-BLK Black cord		
		CCS Casambi module	AWNR Lutron Athena Wireless Node module	DAYCKT Daylight circuit May require additional power feeds.	SJ-WHT White cord		
		AWNS Lutron Athena Wireless Sensor module	OTHER Consult factory		AM Antimicrobial finish		

## Performance

Output <sup>1</sup>	Watts/ft	Lumens/ft	LPW
Low	5	458	92
Medium	7	608	87
High	10	822	82

<sup>1</sup>Based on a typically configured 90 CRI, 3500K luminaire using one driver.  
Custom outputs available. Please consult factory.  
For 4000K multiply by 1.05; for 3000K, 0.9; for 2700K, 0.92.

## Technical Information



click [here](#) or scan QR code

Wiring diagrams, PoE and sensor details

# LS1 GUV

## Drivers & Electrical

Integral drivers\* with 0-10V Dimming standard. Several other driver options available; see ordering information.

\*DMX drivers are provided in remote enclosures.

## Sensors & Controls

Sensors are installed on an aluminum plate adjacent to the luminaire lens<sup>1</sup>. Coronet remains agnostic in our approach to sensors and control systems; our fixtures are compatible with most systems offered.

<sup>1</sup>Not applicable to indirect only models. Consult factory.

## Emergency Back-Up

For fixtures three-feet or longer, a 4W integral emergency driver may be wired to 4ft sections. 7W, 10W, and 12W drivers are also available (not all integral; consult factory). Emergency circuits for use with building generators are also available.

## PoE (Power over Ethernet)

Compatible with virtually all PoE systems including Moxel Coresync, Igor, Smartengine, Platformatics, and NuLED SPICEbox.

Consult factory for systems not listed. See [here](#) for more info.

## Finishes

All luminaires are finished in high quality polyester powder coating. Our standard color is white. Any RAL color may be specified.

## Weight

3 lbs per foot

## Optics

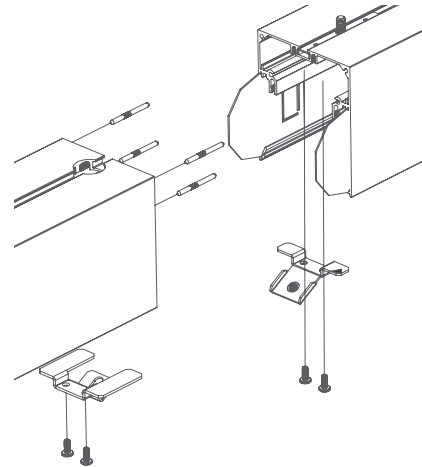
Extruded satin acrylic lenses provide excellent diffusion, high transmission, and no LED imaging.

## Construction

Housings are extruded premium, recycled aluminum. Individual fixtures are available up to 12' long and may be specified as nominal or precision lengths. Precision lengths are supplied within 1/8" tolerance.

## Joined Runs

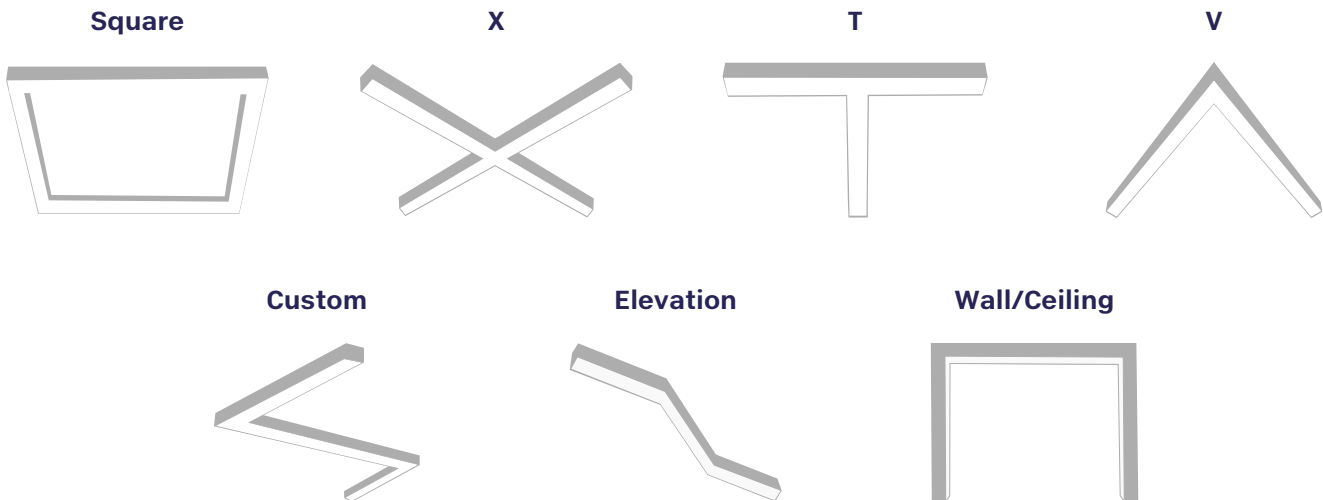
Runs of any length may be specified and are comprised of multiple, factory-engineered, joined sections. Individually specified luminaires are not field joinable.



Representative joinery. For product specific details see installation guides or submittal drawings.

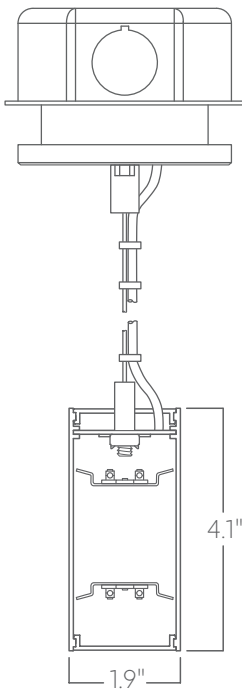
## Patterns

Featuring illuminated welded corners and angles. Consult factory for custom designs and elevations.

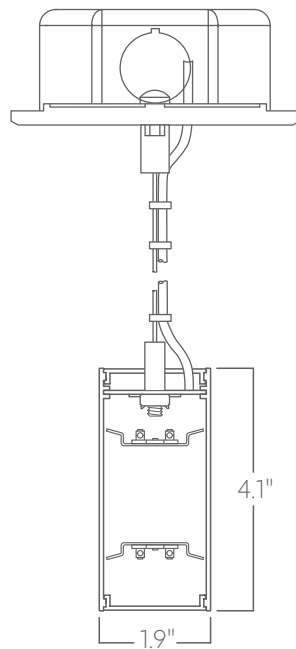


## Mounting Options

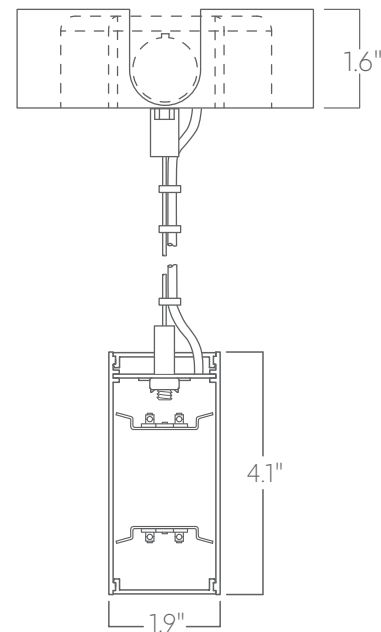
Custom mounting types and ceiling transitions available; consult factory.



**Aircraft cable  
3.5" canopy**



**Aircraft cable  
5" canopy**



**Aircraft cable  
Conduit canopy  
with knockouts**

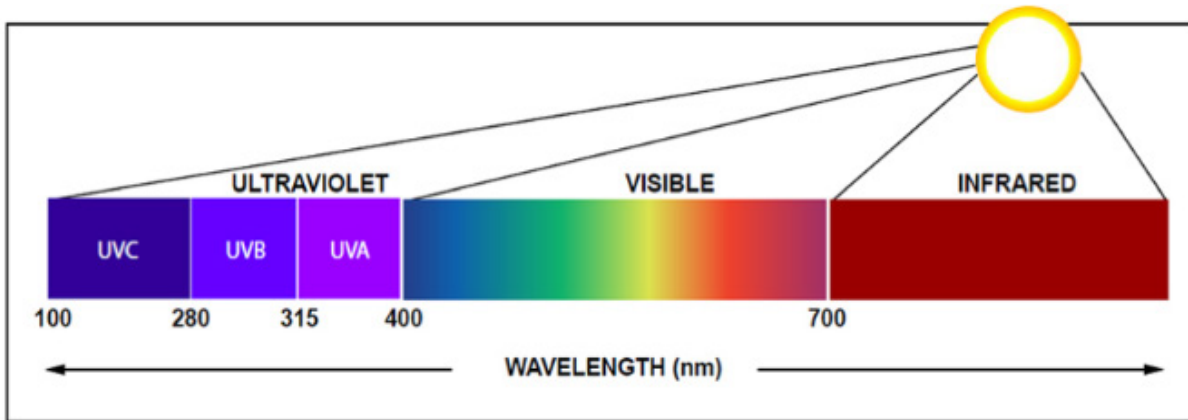
Please consult factory shop drawings for suspension points.

To prevent damage to fixtures, factory designated suspension points must not be field altered.

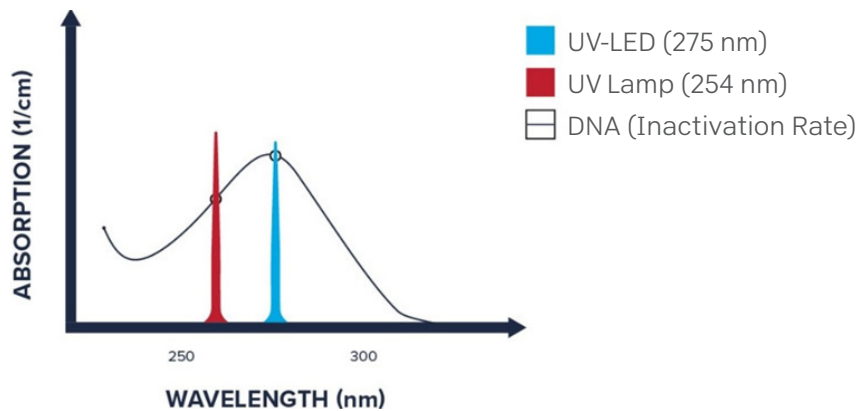
Do not attempt installation if you do not understand the installation instructions.

## UV-C Lighting

Coronet integrates UV-C lighting at 275 nanometers (nm) into our products as upper air germicidal UV to combat virus and bacteria in a space while also providing illumination. UVC wavelengths can break the bonds in the DNA and RNA of viruses and bacteria making them unable to multiply and inactivating them. As the light directly affects the DNA/RNA of the organism, it works on drug resistant strains of viruses and bacteria; this technology has been used in hospitals since the 1940's. There are three bands of UV lighting; UVC, when used in upper air applications, is the most effective, safest solution.



There is an 'Action Curve' that determines how effective specific wavelengths are on viruses. See the example below:



## Upper Air GUV

Upper Air GUV uses a UVC light source to clean the air in a room as it circulates. Natural convection that occupants produce combines with the HVAC system and circulate throughout the space. By providing the appropriate dosing (total UV Energy x Time of Exposure), the goal of a well-designed UVC system is to simulate 20-40 air exchanges per hour in a space, helping sanitize against airborne bacteria and viruses by keeping the air clean. Upper Air GUV is effective on aerosolized particles (i.e., from a sneeze), but will not clean surfaces below the fixture where droplets may land. As UV-C will not reflect off a ceiling surface, it is "line of sight" disinfection only and should be used in conjunction with a good cleaning/sanitation program.

## Design Requirements

Directly viewing UV-C sources can cause harmful effects to the cornea of the eye; Coronet's fixtures are designed to prevent this during normal use in conjunction with important design requirements that allow for safety and optimal germicidal effectiveness:

- All fixtures must be mounted at a minimum of 7'6" to ensure there is no possibility of direct view into the UVC light.
- Fixtures should be at least 2ft from the ceiling to allow for an ideal spread of light and a large enough disinfection zone.
- Fixtures should be evenly spaced throughout a room.
- The lens on the indirect side of the fixture will need to be kept clean for best results, otherwise UVC light could be absorbed by dust and lose in efficiency.
- An integrated occupancy sensor will turn off the UV LEDs if motion is detected above the fixture.

## The Coronet Approach

Coronet aims to bring this proven technology from the medical community to commercial spaces (office, retail, hospitality) to be used to help prevent illness in conjunction with a cleaning/disinfection plan to clean surfaces below. By using indirect UV lighting, we can shield the UV-C sources from direct view and ensure there are no safety issues while still providing standard direct LED lighting to illuminate a space. As the fixtures are evenly spaced throughout the room, a less powerful dosage can be used therefore reducing any potential issues of UV-C exposure. Coronet targets the IES recommended 12mW per cubic meter of air in disinfection regions for optimal results.

## References

With the Covid-19 crisis, worldwide standards organizations have issued opinions on the use of UV-C to target the disinfection of spaces. Respected organizations are recommending Upper Air GUV, as it has been proven safe and effective for the last 80 years.

- IES paper on Germicidal UV:  
<https://www.ies.org/standards/committee-reports/>
- CIE's Position Report on Germicidal UV:  
<https://cie.co.at/publications/cie-position-statement-use-ultraviolet-uv-radiation-man-age-risk-covid-19-transmission>