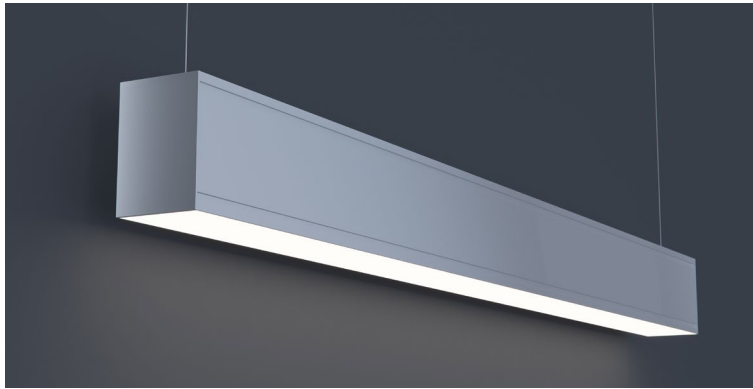


DATE	PROJECT	FIRM	TYPE
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Linear luminaire with upper air germicidal UV light on the indirect side to provide upper air disinfection and continuous LED white lighting on the direct side.

DESIGN REQUIREMENTS (See Pages 4+5 for More Information)

- Fixtures must be mounted at a minimum of 7'6" AFF and cannot be installed in spaces where any direct view into the GUV Uplight is possible
- 2ft Minimum from the ceiling to allow air flow over fixture recommended.
- Effectiveness of system is dependent on airflow and should be reviewed by a qualified HVAC professional

FEATURES

- 275nm GUV LED (Indirect)
- CRI 90+ Standard; R9>50 on the Direct Side
- 2700K, 3000K, 3500K, 4000K Color Temperatures Available
- Available with PoE

APPLICATIONS Healthcare Facilities, Conference Rooms, Receptions Areas, Offices, Lobbies Corridors, Retail, Hospitality

CONSTRUCTION Extruded Aluminum Housing with Die Cast Ends. Formed Steel Gear Tray

OPTICS Extruded High Transmission Satin Acrylic Lens with No LED Imaging (Direct Side Only).

WARRANTY 5 Year Limited Warranty (Covers Standard Components)

FINISH Standard Powder-Coated White. Custom RAL Colors Available

FIXTURE RATINGS & CERTIFICATIONS Union Made Made In The USA
ETL Listed Damp Location



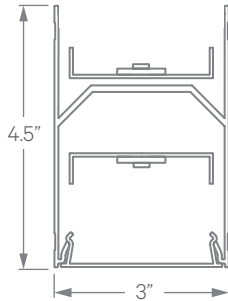
DRIVERS & SENSORS



For Wiring Diagrams and Sensor Information Click [Here](#)

ELECTRICAL Two-Circuit Design. Integral Driver with 0-10V, 1% Dimming Standard on the Direct Component with Several Driver Options Available. Simple On/Off Driver for the Indirect Side. Sensor on GUV Uplight to Shut Off UV LEDs if Occupancy is Detected in LED Zone.

EXTRUSION DIMENSIONS



LED SYSTEM INFORMATION

	Nominal System Watts	Nominal Delivered Lumens	Nominal Efficacy
Standard (LTG1)	7.25 W/ft	560 lm/ft	80 LPW
Low (LTG2)	5 W/ft	405 lm/ft	80 LPW
High (LTG3)	10 W/ft	770 lm/ft	78 LPW
UV Uplight	5 W/ft	N/A	N/A

Based on a 3500K luminaire using one driver. Custom outputs available; specify below.

ORDERING

1	2	3	4	5	6	7	8	9	10
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1 - FIXTURE ID LS3 - GUV	2 - LENGTH 2 - 2 ft 4 - 4 ft 8 - 8 ft X'-X" - Specify Length PAT - Pattern (Consult Factory)	3 - COLOR TEMP 27 - 2700K/90 CRI 30 - 3000K/90 CRI 35 - 3500K/90 CRI 40 - 4000K/90 CRI	4 - LED SYSTEM LTG1 - Standard LTG2 - Low LTG3 - High LTGC - Custom Output	5 - VOLTAGE UNV - Universal (120/277V)	6 - DRIVER DB - Standard Dimming (0-10V) DB1% - 1% Dimming (0-10V) DB.1% - 0.1% Dimming (0-10V) LTEA - Lutron 2-wire 1% Dimming (120V only) LDE1 - Lutron Digital EcoSystem LDE5 - 5 Series EcoSystem; 5% Dimming PoE - Power over Ethernet. Consult Factory for Compatibility
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7 - FINISH W - White (Standard) BLK* - Black CC* - Custom Color (provide RAL number**)	8 - MOUNTING AC - Air Craft Cable (50")	9 - OPTICS SD - Standard Diffuser	10 - OTHER OPTIONS AM - Anti-Microbial Finish EM 120V - Emergency Pack EM 277V - Emergency Pack EMCKT - Emergency Circuit
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*White cord and canopy provided. Must specify for other requests.
 ** (See [here](#) for finish options)

DATE

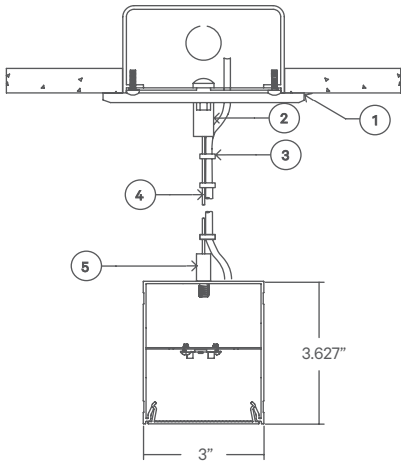
PROJECT

FIRM

TYPE

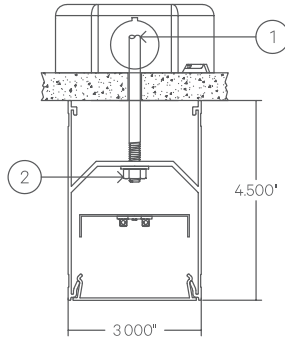
MOUNTING OPTIONS

AC - Aircraft Cable (50")



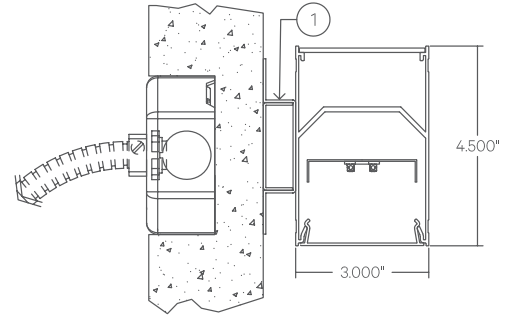
- 1 - 5" Round Canopy (Standard White Finish)
- 2 - Canopy Retainer
- 3 - SJT Cord (Standard White)
- 4 - Aircraft Cable
- 5 - Gripper

SM - Surface Mount



- 1 - Threaded Rod (not supplied)
- 2 - 1/4-20 Nut (not supplied)

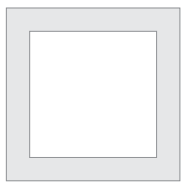
WM - Wall Mount



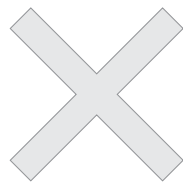
- 1 - 0.75" Wall Mount Bracket

PATTERNS

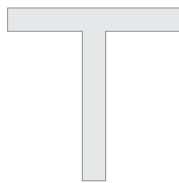
Patterns feature illuminated corners and angles. **Must consult factory for custom corners, patterns and elevations.**



Square Patterns



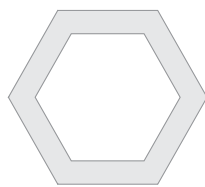
X Patterns



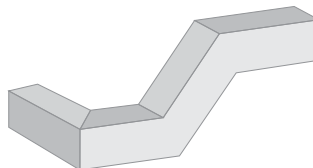
T Patterns



Custom Angles

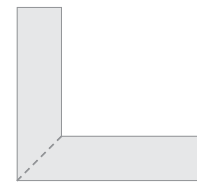


Custom Patterns



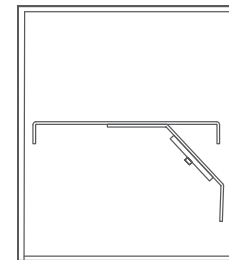
Custom Elevations

LENS CUT



Mitered

WALL WASH REFLECTOR

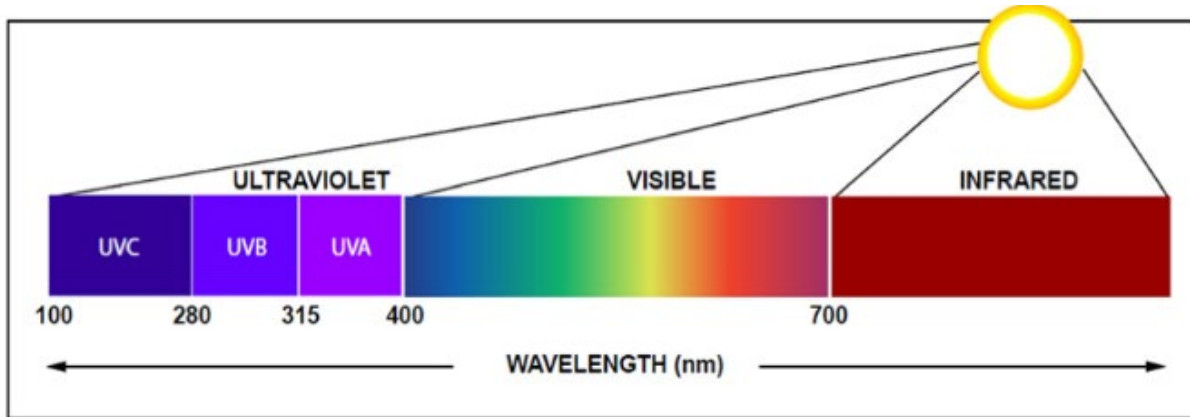


Cross Section

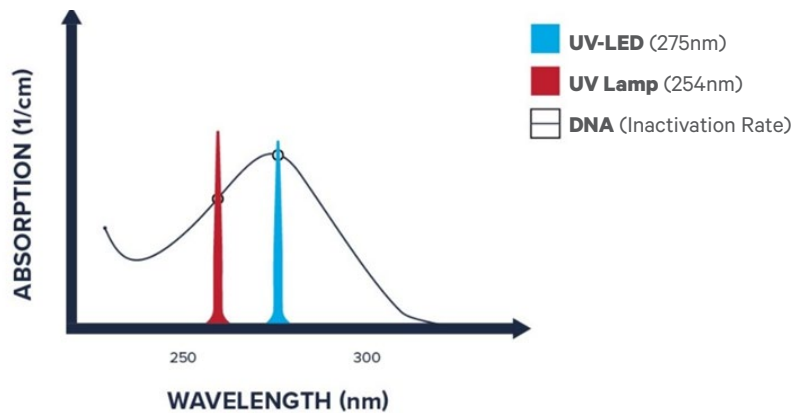
Updated: 09/30/2020

UV-C Lighting

Coronet integrates UV-C lighting at 275 nanometers (nm) into our product 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 is the safest and most effective germicidal solution.



There is an 'Action Curve' that determines how effective specific wavelengths are on Viruses. Below is an example:



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 combine 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 20-24 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 (ie- 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.

Safety and Design Considerations

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 its 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 (offices, 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 reducing any potential issues of UV-C exposure. Coronet targets the IES recommended 12mW per Cubic Meter of air in the disinfection region for optimal results.

References

With the Covid-19 crisis, worldwide standards organizations have issued opinions on the use of UV-C to target disinfection of space. 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: <http://cie.co.at/publications/cie-position-statement-use-ultraviolet-uv-radiation-manage-risk-covid-19-transmission>