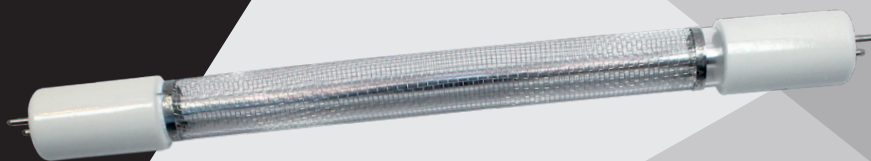




EL01-150

Linear, 30W, 150 mm, Excimer lamp



EL01-150

Excelitas® excimer lamps utilize nanosecond duration excitations of exciplex species to generate narrow bandwidth 222 nm ultraviolet light safely and efficiently. The 222 nm wavelength is eye safe and has proven effective at combating a wide variety of microbes, making Excelitas excimer products worthy of consideration in a stand-alone system or integrated into multiple modality disinfection solutions. Long lifetime ensures reliable usage long after other technologies degrade in efficacy or require a bulb replacement.

Co-axial excimer lamps achieve excellent lifetimes and output with materials optimized for working in the deep UV regime. Electrode life is maximized by isolation from the plasma discharge. While standard linear sizes are available, Excelitas also offers customized co-axial excimer lamp geometries upon request.

Excelitas excimer lamps incorporate proprietary UV filtering technology to enhance human safety by selectively transmitting 222 nm germicidal ultraviolet light while limiting harmful wavelengths in the 254-260 nm range. EL01-150-1 provides a suppression (45%) of 257 nm.

Key Features:

High-intensity emission at 222 nm

>3000 hours lifetime

Custom lengths available

RoHS Compliant

Applications:

Air disinfection;
viral and other microbes

Surface disinfection;
viral and other microbes

Food processing

Pharmaceutical processing

Packaging sterilization

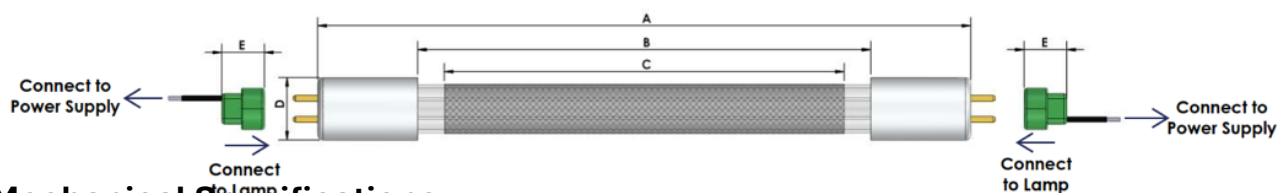


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Mechanical Specifications

Dimension	Description	Nominal
A	Lamp Length	245 mm
B	Window Length	170 mm
C	Emission Region	150 mm
D	Lamp Diameter	ø23.4 mm
E	Electrical Connector Length	16.0 mm
-	Wire Length	150 mm
-	Weight*	86 grams

*Lamp only (weight of connectors and wires not included)

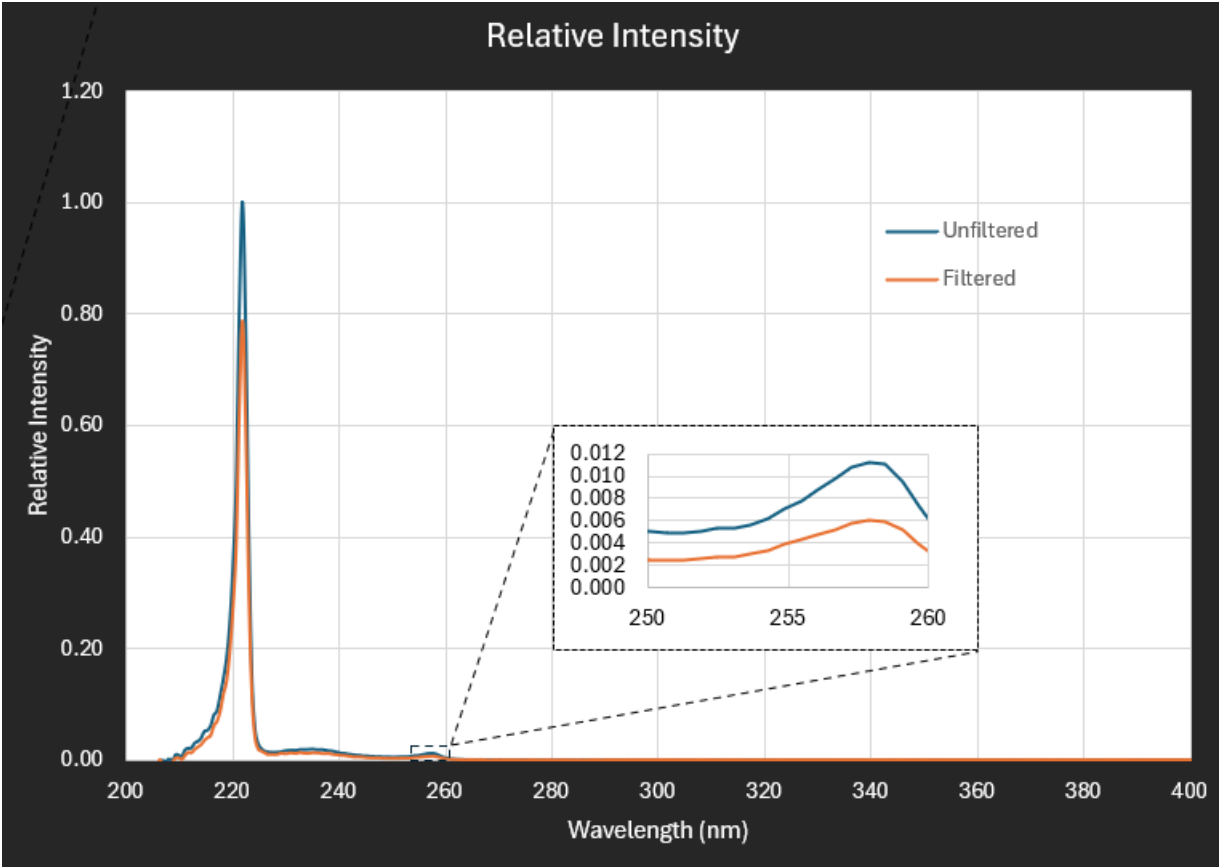
Operating Specifications

Description	Nominal
Power Input	30 Watts
Irradiance*	The graph shows the irradiance of the EL01-150 lamp at two different points, EL01-150-0 and EL01-150-1. The y-axis represents the total intensity in the 215-225nm range in uW/cm², ranging from 0 to 6000. The x-axis represents the distance in centimeters, ranging from 0 to 14. Both curves show a rapid decrease in intensity as distance increases, with EL01-150-0 having a higher intensity than EL01-150-1 at all distances shown.
Radiant Flux*	450 mW UV-C
Warm-up time	<100 µsec
Surface Temperature	120°C, Maximum
Lifetime**	>3000 hours typical
Ozone	Minimal emission

*Per Excelitas measurement method

**End of Life - 30% reduction in output from new

Spectral Output



Environmental Specifications

Description	Nominal
Ambient Starting Temperature	0°C Minimum
Operating Humidity	85% Maximum, non-condensing
Environmental Operating Pressure	700 to 1050 hPa
Storage Temperature	60°C Maximum
Storage Humidity	85% Maximum, non-condensing

Notes:

1. Lamps require forced air cooling, dependent on the application and duty cycle.
2. Operational warnings:
 - Do not touch the lamp during operation. High voltage applied during operation.
 - Do not place flammable items nearby during operation.
 - For additional precautions, please refer to the lamp specification sheet.
3. For disposal, standard practices apply. No special requirements.

RoHS Compliance

The excimer lamp is designed and built to be fully compliant with the European Union Directive 2015/863/EU – Restriction of the use of certain Hazardous Substances (RoHS) in Electrical and Electronic equipment.



About Excelitas

Excelitas is a leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of advanced technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide.

Excelitas is at the forefront of addressing many of the relevant megatrends impacting the world today, including precision medicine, industrial automation, artificial intelligence, and connected devices (IoT).



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