

Indigo-Clean[®]
A brand of **legrand**[®]

PINNACLE
ARCHITECTURAL LIGHTING[®]

Many every day environments can be unintentional breeding grounds for SARS-CoV-2*, Influenza-A*, Staph Aureus* and a whole list of pathogens that negatively impact health and wellness. In many types of facilities (healthcare, classrooms, offices, rehab centers, etc.), extreme cleaning practices, often at great cost, are put into place to help prevent contamination.

Using a patented blend of 405 nanometer indigo and white LED light, Indigo-Clean technology bathes spaces in germ-fighting protection. Due to the reflective nature of light, Indigo-Clean reflects off walls and other surfaces to reach the many shadowed areas other disinfection technologies often miss. Once exposed, pathogens are oxidized from within, no matter where they exist: in the air and on surfaces.

Indigo-Clean is laboratory-tested* and integrated into luminaires that are built to Pinnacle's strict standards.



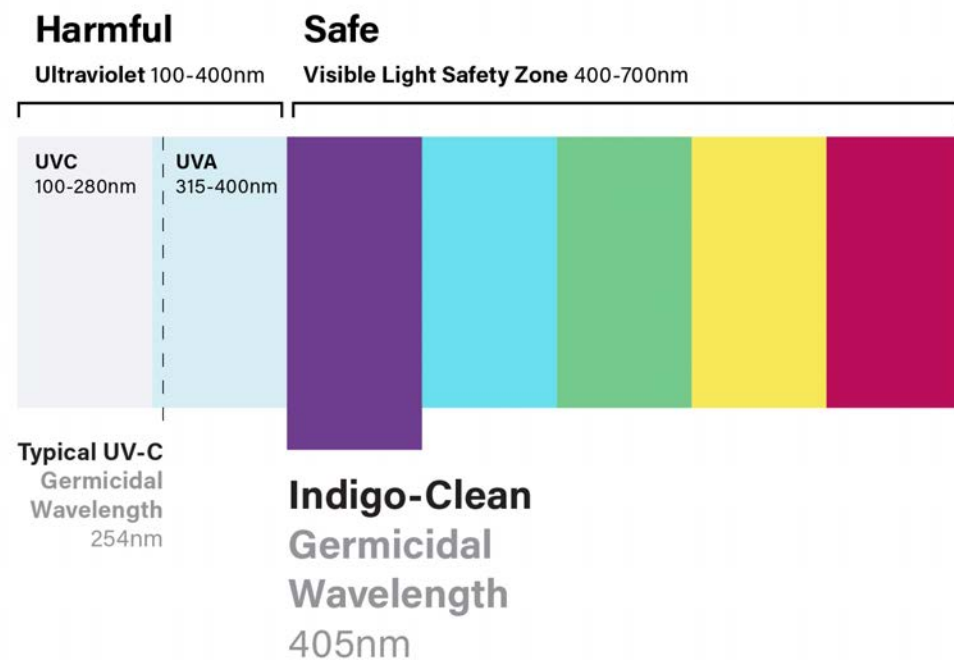
*Lab data available upon request.

VISIBLE LIGHT DISINFECTION

Indigo-Clean is safe, continuous, and effective at killing SARS-CoV-2* (the virus that causes COVID-19), Influenza-A*, Staph Aureus** and a list of pathogens that negatively impact health and wellness.

- The 405nm light emitted from Indigo-Clean reflects off walls and surfaces
- 405nm LEDs target porphyrins, the naturally occurring molecules inside bacteria
- Once the light is absorbed, the excited molecules produce Reactive Oxygen Species (ROS) inside the cell
- Similar to the effects of bleach, ROS inactivates the pathogens and prevents them from re-populating
- Unlike other disinfection technologies, when in use Indigo-Clean is safe for room occupants

VISIBLE LIGHT SPECTRUM SHOWING THE ACTIVE ELEMENT IN INDIGO-CLEAN



*per independent lab report #SGS-09S17036476

PINNACLE ARCHITECTURAL LIGHTING USING INDIGO-CLEAN TECHNOLOGY

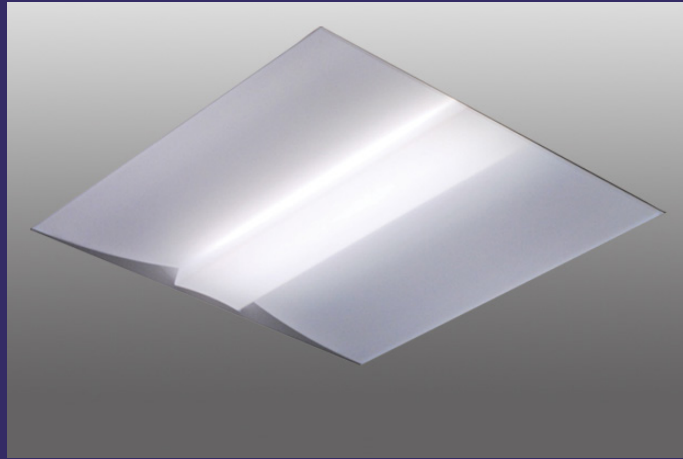
- Provides white light disinfection when the light is on.
- Kills harmful bacteria, including staph*, such as MRSA**, per independent lab testing.
- Unlike UV disinfection devices, light is safe for occupants and requires no special technician or training.
- Provides a cleaner, safer environment, even in areas normal cleaning doesn't reach.

OTHER PATHOGENS CONTROLLED**:

Virus	ESKAPE Pathogens	Microorganisms
SARS-CoV-2 Influenza-A	Enterococcus faecalis Staphylococcal Aureus (incl. MRSA) Klebsiella pneumoniae Acinetobacter baumannii Pseudomonas aeruginosa Enterobacter species	VRE Aspergillus niger E.coli Salmonella enteritidis

**Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et. al, ID Week 2016

WHICH PRODUCTS ARE AVAILABLE WITH INDIGO-CLEAN?



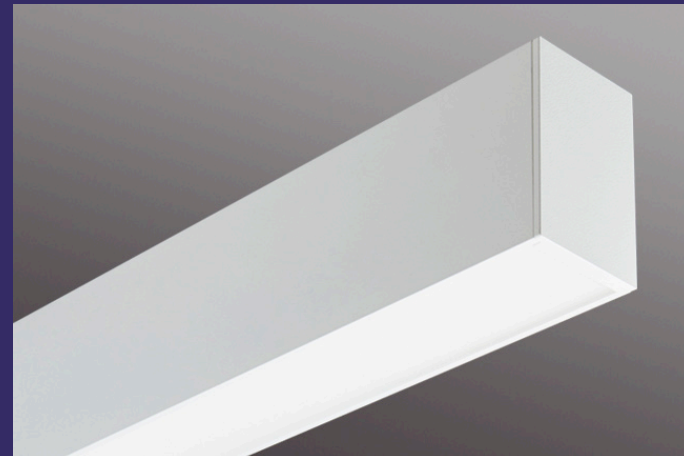
LUCEN: 1x4, 2x2, 2x4



ADEO: 1x4, 2x2, 2x4



EDGE 2: EV2D, EX2D, EX2I, EX2DI



EDGE 3: EV3D, EX3D, EX3I, EX3DI

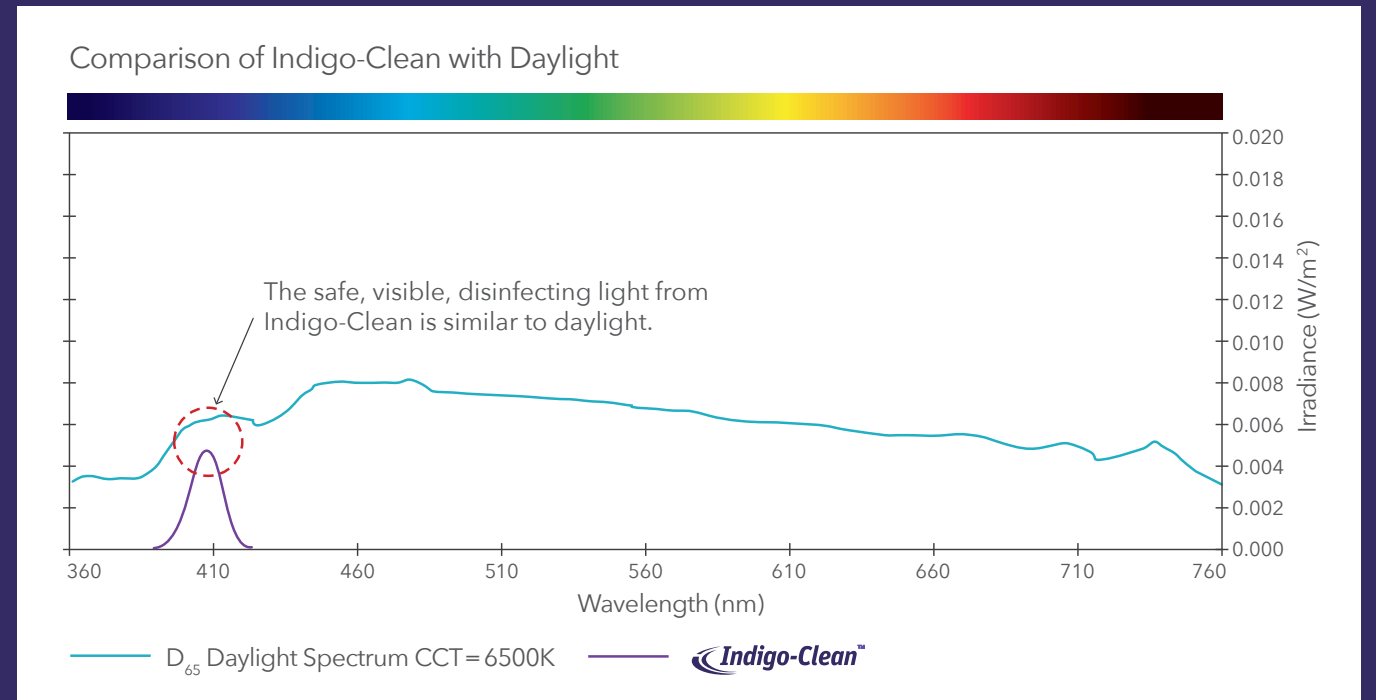


EDGE 4: EV4D, EX4D, EX4I, EX4DI





SAFETY INFORMATION



SAFETY TESTING

Indigo-Clean technology has been evaluated against existing visible light safety standards.

Standard	Testing Method	Results
IEC 62471/62778 ^{1,2}	Independent 3rd Party Laboratory	PASS (<i>exempt</i>)
ACGIH ³	Self-Assessment	PASS
ICNIRP ^{4,5}	Self-Assessment	PASS

- 1: International Electrotechnical Commission - Photobiological safety of lamps and lamp systems, 2006
- 2: International Electrotechnical Commission - Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires, 2014
- 3: American Conference of Governmental Industrial Hygienists - Threshold Limit Values (TLVs) & Biological Exposure Indices Signature Publications, Cincinnati, 2007
- 4: International Commission on Non-Ionizing Radiation Protection - Guidelines on limits of exposure to optical radiation from 0.38 to 3.9 μm . Health Physics 73; 539-555; 1997
- 5: International Commission on Non-Ionizing Radiation Protection - Guidelines on limits of exposure to ultraviolet radiation of wavelengths between 180 nm and 400 nm (incoherent radiation) Health Physics 87, 171-186; 2004

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P I N N A C L E
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3801 Havana St. Denver CO, 80239
Phone: 303.322.5570
www.pinnacle-ltg.com
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