

SPECTRA CLEAN™

ANTIMICROBIAL LIGHTING

A decorative purple starburst graphic with four points, positioned to the right of the "SPECTRA CLEAN" text.



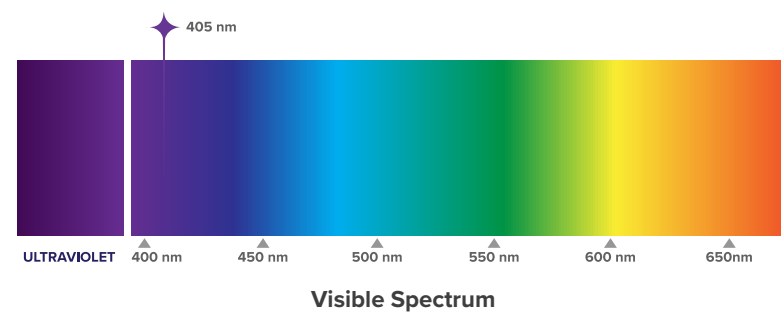
SPECTRA CLEAN™

What if you could utilize lighting to effectively and continuously disinfect your environment? Hubbell Lighting's SpectraClean™ luminaires provide continuous environmental disinfection as part of the lighting system. It automatically treats harmful microorganisms suspended in air, trapped on objects and residing on surfaces.

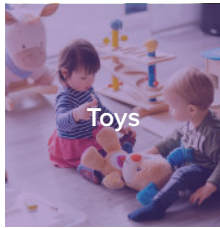
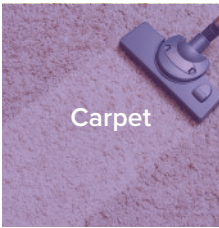
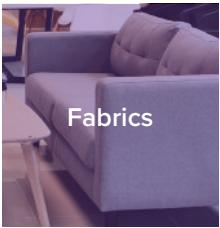
How It Works

SpectraClean™ luminaires leverage developments in the disciplines of lighting science and microbiology to combine white and narrowband 405 nanometer visible light. This innovation meets ambient and task lighting requirements while providing a continuous, unobtrusive disinfection option for commercial applications.

The germicidal effects of narrowband visible light suppress a wide range of bacteria, molds, fungi and yeast. SpectraClean's antimicrobial light induces the production of damaging reactive oxygen species in harmful microorganisms to accelerate cell inactivation.



Antimicrobial disinfection through illumination is proven effective with proper dosage levels on pathogens suspended in air or attached to a variety of surfaces, materials and objects. SpectraClean resides outside the UV spectrum and will not damage non-harmful plant and animal cells or degrade inanimate materials.



Continuous
Provides continuous environmental disinfection



Supplemental
Complements traditional disinfection efforts



Hands-off
Operates automatically without human intervention



Sustainable
Maintains effectiveness against pathogens



Multipurpose
Effective for hard, soft surfaces and airborne pathogens



Versatile
Varied options for employing SpectraClean™ technology



Flexible
Delivers benefits in four modes to fit the needs of the desired application

What It Does

SpectraClean™ is proven effective for a wide range of microorganisms, including antibiotic resistant ESKAPE Pathogens:

Infection Risks

- E. faecium** - Enterococcus faecium
- MRSA** - Staphylococcus aureus
- Pneumoniae** - Klebsiella pneumoniae
- Acinetobacter baumannii
- Pseudomonas aeruginosa

Surface Contamination Risks

- MRSA** - Staphylococcus aureus
- Staph** - Staphylococcus epidermidis
- Staph** - Staphylococcus hyicus
- Strep Throat** - Streptococcus pyogenes
- Thrush** - Candida albicans
- Skin Infections** - Mycobacterium terrae
- Proteus vulgaris
- Serratia spp

Airborne Risks

- Pneumoniae** - Klebsiella pneumoniae
- Corynebacterium striatum
- Acinetobacter baumannii
- Serratia spp
- Pseudomonas aeruginosa
- FCV** - Feline calicivirus

Foodborne Risks

- Food poisoning** - Campylobacter jejuni
- E coli** - Escherichia coli
- Salmonella** - Salmonella enteritidis
- Listeria** - Listeria monocytogenes
- C Diff** - Clostridium difficile
- Shigella** - Shigella sonnei
- Bacillus cereus
- C. perfringens** - Clostridium perfringens

Agriculture Risks

- Common scab** - Streptomyces (root vegetables like potatoes)
- Black mold** - Aspergillus niger (fruits and vegetables)
- Baking/Brewing Yeast** - Saccharomyces cerevisiae



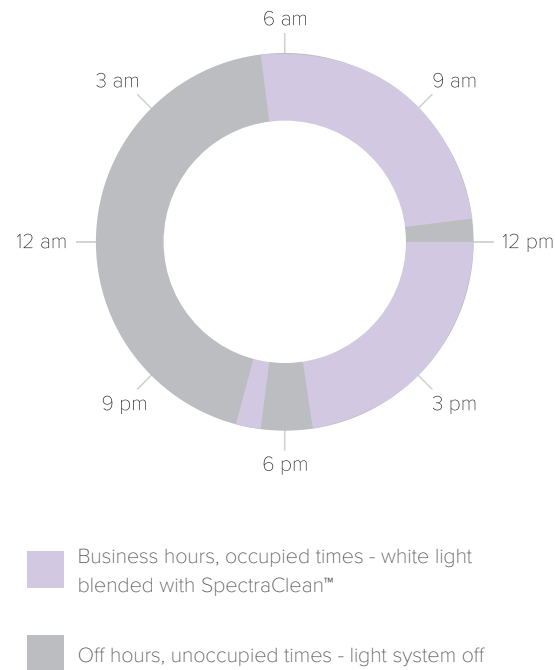
How To Apply It

SpectraClean™ luminaires are available in four modes, allowing customization for the needs of the specific application. When coupled with occupancy sensors and room controllers, SpectraClean luminaires can be controlled based on usage or with pre-programmed schedules.



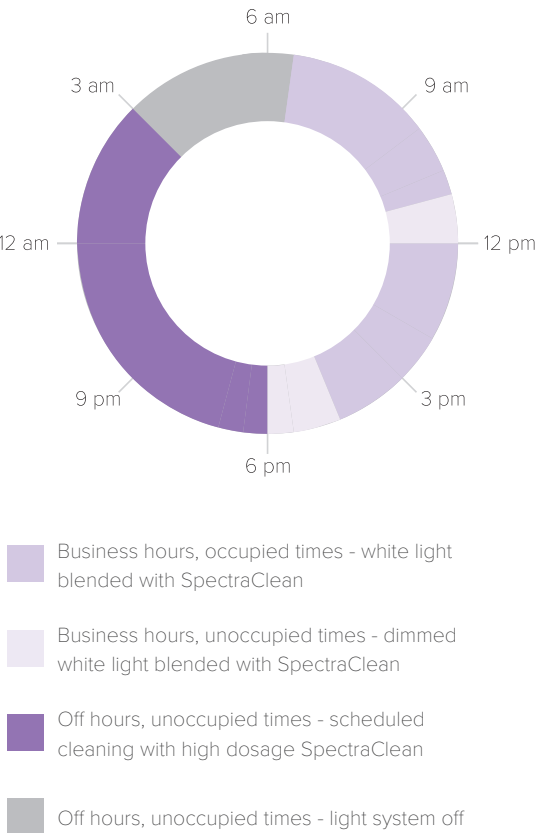
Blended B

One luminaire. One mode of operation. This option combines SpectraClean Antimicrobial Lighting with white light to provide class leading illumination while maintaining the appearance of a traditional white LED source. This allows for in-use disinfection.



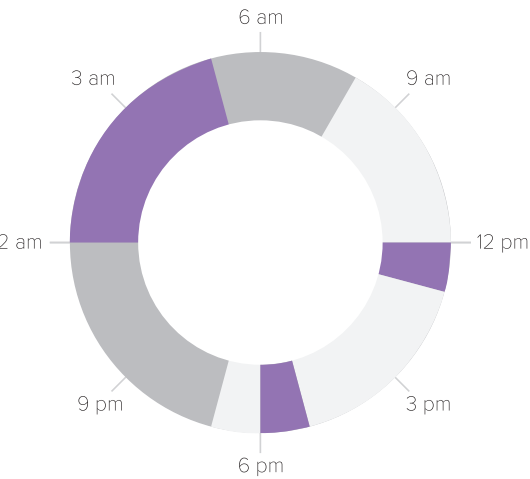
Blended Plus B+

One luminaire. Two modes of operation. This combines SpectraClean enhanced white light with a high dosage SpectraClean mode for periods of accelerated disinfection.



Independent N

One luminaire. Two modes of operation. This configuration operates discretely either as high dosage SpectraClean Antimicrobial Lighting or white ambient lighting. This SpectraClean mode is intended for periods of accelerated disinfection while the space is not being used.

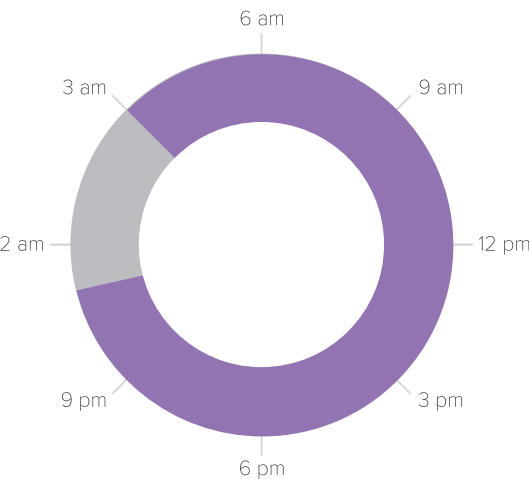


- Occupied times - white ambient/task lighting
- Off hours, unoccupied times - scheduled cleaning with high dosage SpectraClean™
- Off hours, unoccupied times - light system off



Dedicated D

One luminaire. One mode of operation. This configuration is a high dosage SpectraClean Antimicrobial Lighting solution for concentrated disinfection, independent of white ambient lighting.



- Production times - targeted cleaning with high dosage SpectraClean™
- Off hours, unoccupied times - light system off

Where To Use It

Areas of Congregation



Recreation & Wellness

- Locker Rooms
- Exercise Rooms
- Equipment Rooms
- Restroom Facilities

Education & Childcare

- Schools
- Daycare Centers
- Laboratories
- Dormitories
- Restroom Facilities
- Shower Facilities

Hospitality & Hotel

- Common Areas
- Recreation Rooms
- Food Preparation
- Restroom Facilities
- Convention Venues
- Meeting Rooms

Public Transportation

- Airports
- Bus Terminals
- Train Stations
- Subway Stations
- Elevators

Cleanrooms

- Laboratories
- Specialized Manufacturing Areas
- Storage of Sensitive Materials

Retail

- Grocers
- Big Box Stores
- Department Stores
- Pharmacies

Food and Beverage Industry



Food Manufacturing

Food Production Lines

Food Packaging

Packaging and Bulk Processing

Food Processing

Production and Preparation Areas

Food Preparation

Grocery Stores

Produce

Delis

Butchers

Kitchens

Dining

Quick Serve Restaurants

Cafeterias

Dining Halls

SCCT | SpectraClean™ Contemporary Architectural Troffer

Office | Education | Transportation | Retail | Food Service Projects



- LED troffer with high efficiency acrylic center lens features linear prisms for performance without pixilation
- High performance reflector with matte white paint
- Available in 2'x4', 2'x2' and 1'x4'

B B+ N

SCLT | SpectraClean Lensed Troffer

Office | Education | Transportation | Retail | Food Service Projects



- Full Distribution LED troffer with acrylic lens for light diffusion without compromise to light output
- Luminaire housing, end caps and reflectors are die formed code gauge cold rolled steel
- Available in 2'x4', 2'x2' and 1'x4'

B B+ N

SCST | SpectraClean Striplight

Storage | Utility | Food Preparation



- LED lensed striplight with heavy die-formed steel channel, 100% acrylic formed lens to eliminate pixilation and reduce glare
- Available in 4' and 8' lengths

B B+ N D

SCVM | SpectraClean Linear Vaportite

Storage | Utility | Food Manufacturing | Food Processing | Food Preparation



- Enclosed and gasketed linear varportite with impact resistant lens options
- Smooth fiberglass housing with F1 weatherability rating
- Available in 4' and 8' IP67 rated lengths
- -40°C (-104°F) minimum operating temperature
- UL Sanitation Certified per NSF Standards

B B+ N D

SCVW | SpectraClean Linear Vaportite

Storage | Utility | Food Manufacturing | Food Processing | Food Preparation



- Enclosed and gasketed wide body linear varportite with impact resistant lens options
- Smooth fiberglass housing with F1 weatherability rating
- IP67 rated 4' luminaire
- -40°C (-104°F) minimum operating temperature
- UL Sanitation Certified per NSF Standards

N D



ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS

DUAL-LITE

HEALTHCARE SOLUTIONS

HUBBELL CONTROL SOLUTIONS

HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

LITECONTROL

PRESCOLITE

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