



# SPECTRA CLEAN™

ANTIMICROBIAL LIGHTING FOR  
FOOD SAFETY







It's estimated that there's an annual economic loss of \$77 billion to the food industry from recalls stemming from foodborne illnesses. Rigorous food safety practices reduce risk but they are not foolproof and the potential consequences of an outbreak are enormous.



### Listeria

**6.4%** market share to

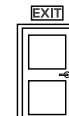
**0%**



total costs exceeded **\$200M**



Production was halted for **5 months**



**70%** of workforce laid off and furloughed



### E. Coli



both in court costs and lost sales in **18 months** after outbreak



**30%** drop in parent company's share price



### Salmonella

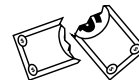
Over **\$1B** loss to the U.S. peanut industry



**Federal felony conviction** of corporate executive

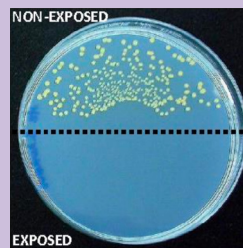


**360** companies recalled **3900** products across **46** states



**Chapter 7 bankruptcy**

A small investment in SpectraClean™ antimicrobial lighting can help overcome the magnitude of food safety and public health risks.



In a laboratory setting, photosensitive microorganisms populated a complete agar surface. Exposure to SpectraClean narrow band visible light demonstrated a significant reduction in microorganism population compared to the non-exposed area.

## The Magnitude of an Outbreak

Even with the best practices, there are foodborne illness outbreaks. Think of the many opportunities pathogens are still introduced to human and animal food supplies:

- Employee error
- Supply chain partner oversight
- Ineffective cleaning
- Unacceptable hygiene
- Inadequate pest control

Studies show that outbreak recall costs can exceed \$100M to a multi-national business. This includes the direct costs of the recall and the indirect costs of litigation, penalties, and damaged company reputation.

In a perfect world, robust sanitation processes would eliminate outbreaks. Unfortunately, there are so many variables in the food and beverage industry that can lead to contamination.

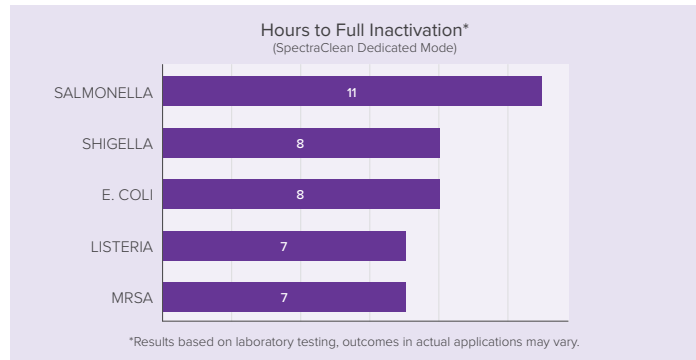
Considering the magnitude of preserving public health through food safety, an investment in SpectraClean™ lighting from Hubbell Lighting is easily rationalized.

Imagine if lighting fixtures could contribute more than general illumination.

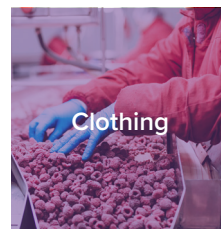
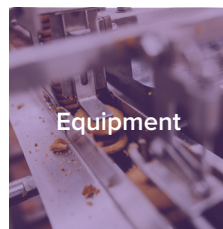
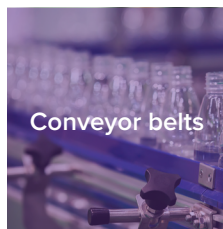


Hubbell Lighting's SpectraClean™ antimicrobial lighting leverages advances in lighting science and microbiology to combine white and 405 narrowband nanometer visible light. The germicidal effects of narrowband visible light suppress common pathogens responsible for foodborne illnesses:

- Food Poisoning - Campylobacter jejuni
- C. Perfringens
- Salmonella
- Staphylococcus aureus
- E Coli
- Listeria
- Clostridium Difficile
- Shigella
- Bacillus cereus



SpectraClean luminaires not only illuminate but, continuously and automatically disinfect. Its effective on pathogens in air or attached to surfaces. This helps prevent transfer and cross-contamination. With the proper dosage, this safe, continuous and effective breakthrough in lighting technology can help protect employees and the public against foodborne illnesses.



## Disinfecting Luminaires

Hubbell Lighting's SpectraClean lighting fixture replaces existing lighting systems in food processing, preparation and manufacturing areas with the added benefit of disinfection. These luminaires are equipped with LED technology for energy efficient operation and low maintenance.

Storage | Utility | Food Manufacturing | Food Processing | Food Preparation | Packaging | Retail



**SCCT**  
SpectraClean Contemporary  
Architectural Troffer



**SCLT**  
SpectraClean Lensed Troffer



**SCST**  
SpectraClean Striplight



**SCVM | SCVW**  
SpectraClean Linear Vaportite

## Modes

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.

### B Blended

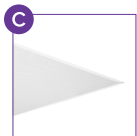
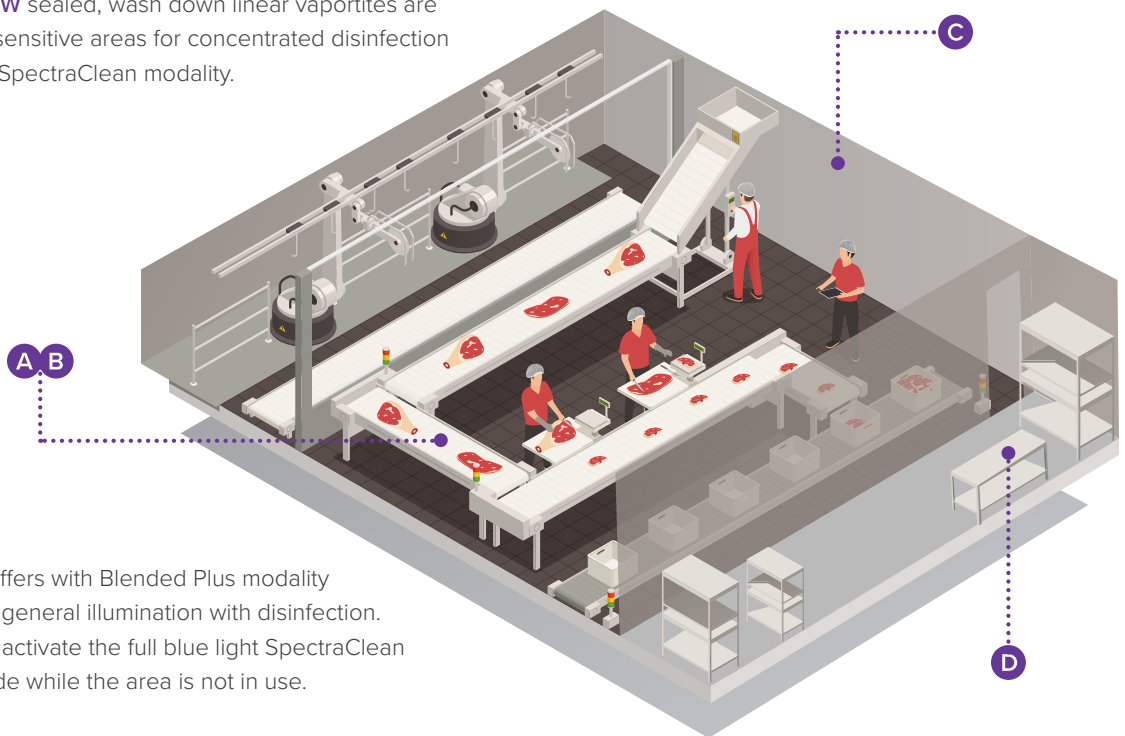
One luminaire. One mode of operation. This option combines SpectraClean Antimicrobial Lighting with white light to provide class leading illumination while maintaining the appearance of a traditional white LED source. This allows for in-use disinfection.

## Food Manufacturing

SpectraClean allows lighting designs that provide excellent illumination and effective disinfection. In this representative food manufacturing location, SpectraClean luminaires are effectively deployed throughout the entire space.



**SCVM** and **SCVW** sealed, wash down linear vaportites are deployed over sensitive areas for concentrated disinfection with Dedicated SpectraClean modality.



**SCLT** lensed troffers with Blended Plus modality are installed for general illumination with disinfection. NX controls will activate the full blue light SpectraClean disinfection mode while the area is not in use.



**SCST** linear strip lights with Independent modality can be deployed in rack and storage areas, toggling between white light during times of occupation and full SpectraClean while illumination is not needed.

“What if you could use lighting to effectively and continuously disinfect?”

## B+ Blended Plus

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

## N Independent

One luminaire. Two modes of operation. This configuration operates 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.

## D Dedicated

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

### Restaurants

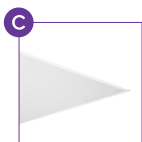
In a restaurant setting, SpectraClean antimicrobial lighting is used to complement existing cleaning practices.



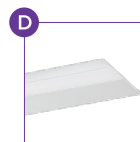
**SCVM** with Independent modality is applied in the sanitation closet and cold storage areas. The need for illumination in these areas is frequently brief, standard white light illuminates while the rooms are occupied and revert to the blue light SpectraClean mode while these sensitive areas are not occupied.



**SCST** with Dedicated SpectraClean blue light are installed over the employee hand wash station. This specific area will benefit from the germicidal effects of this high concentration, task specific solution while general illumination is provided by other luminaire providing ambient light.



**SLCT** lensed troffers with Blended Plus modality are installed in the food prep areas, dish cleaning areas, and restrooms for general illumination with disinfection. NX controls will activate the full blue light SpectraClean disinfection mode while the area is not in use.



**SCCT** troffers with Blended modality provides disinfecting illumination in dining areas.



# SCCT | SpectraClean™ Contemporary Architectural Troffer



- 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'

Example: SCCT24-B-35MLG-EDU

CATALOG #

SCCT																
Model		Size		Version		CRI		Color Temp		Nominal Lumens		SpectraClean Output <sup>2</sup>		Ceiling Type		
SCCT Commercial Troffer with SpectraClean	14	1x4	B	Blended	Blank	>80	30	3000K	XW	1x4, 2x4 (2500)		L1	Level 1		G	Grid Lay-in <sup>3</sup>
	22	2x2	BP	Blended Plus		35	3500K	VW	2x2 (1500); 1x4, 2x4 (3200)		SM		Surface Mount			
	24	2x4	N			Independent		40	4000K	MW	2x2 (2000); 1x4, 2x4 (3600)		CM	Cable Suspended Mount <sup>4</sup>		
								50	5000K	LW	2x2 (2600); 1x4, 2x4 (4200)					
								ML	2x2 (3300); 1x4, 2x4 (4800)							
								HL	2x2 (3600); 1x4, 2x4 (5600) <sup>1</sup>							

				U			
Shielding		Driver		Voltage		Options	
Blank	Curve	E	Fixed output	U	120–277V	C388 3-Wire Flex	
		ED	0–10V Dimming			C488 4-Wire Flex	
		ED1	0–10V 1% Dimming			C588 5-Wire Flex	
						GLR Fast Blow Fuse	
						EOR	End of Row (SM and CM only)
						INT	Intermediate (SM and CM only)
						CP	Chicago Plenum

## Accessories

- ☐ FK14 1x4 Single Flange Kit
- ☐ FK22 2x2 Single Flange Kit
- ☐ FK24 2x4 Single Flange Kit
- ☐ CM48Y1SC3F48 Cable Mount Kit for 1x4, 3-wire cord
- ☐ CM48Y2SC3F-KIT Cable Mount Kit for 2x2 and 2x4, 3-wire cord

## Notes:

- 1 HL not available with Blended Plus (BP) mode
- 2 Applies to Independent (N) and Blended Plus (BP) modes only. For Blended mode, leave blank.
- 3 For drywall, order G with Flange Kit Accessory
- 4 Order with cable mount kit accessory



## SCLT | SpectraClean™ Lensed Troffer



- 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'

Example: SCLT24-B-35MLG-FS-SFA-EDU

CATALOG #

SCLT												
Model		Size	Version		CRI	Color Temp	Nominal Lumens		SpectraClean Output <sup>1</sup>		Ceiling Type	
SCLT Lensed Troffer with SpectraClean		14 1x4	B	Blended	Blank >80	30 3000K	XW	1x4, 2x4 (2800)		L1 Level 1	G Grid Lay-in <sup>2</sup>	
		22 2x2	BP	Blended Plus		35 3500K	VW	2x2 (1800); 1x4, 2x4 (3600)			SM Surface Mount	
		24 2x4	N	Independent		40 4000K	MW	2x2 (2000); 1x4, 2x4 (4000)			CM Cable Suspended Mount <sup>3</sup>	
						50 5000K	LW	2x2 (2600); 1x4, 2x4 (4800)				
						ML	2x2 (3200); 1x4, 2x4 (5200)					

Door		FA			U		
		Shielding	Driver		Voltage	Options	
SD	White Flush Steel	FA Frosted Acrylic	E	Fixed Output Driver	U 120–277V	C388	3-Wire Flex
AD	White Flush Aluminum		ED	0–10V Dimming		C488	4-Wire Flex
			ED1	0–10V 1% Dimming		C588	5-Wire Flex
						GLR	Fast Blow Fuse
						G1	Single Gasketing (Door to Housing)
						G2	Double Gasketing (G1 and Lens to Door)
						G3	Triple Gasketing (G2 and Housing to Ceiling)
						EOR	End of Row (SM and CM only)
						INT	Intermediate (SM and CM only)
						CP	Chicago Plenum
						WL	Wet Location <sup>4</sup>

### Accessories

- ☐ **FK14** 1x4 Single Flange Kit
- ☐ **FK22** 2x2 Single Flange Kit
- ☐ **FK24** 2x4 Single Flange Kit
- ☐ **CM48Y1SC3F48** Cable Mount Kit for 1x4, 3-wire cord
- ☐ **CM48Y2SC3F-KIT** Cable Mount Kit for 2x2 and 2x4, 3-wire cord

### Notes:

- 1 Applies to Independent (N) and Blended Plus (BP) modes only. For Blended mode, leave blank
- 2 Order with flange kit accessory
- 3 Order hanger accessories separately
- 4 AD door required and select G2 or G3 gasketing

## SpectraClean™ Linear Vaportites

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



Example: SCVM4-B-35LW-L1-SFA-EDU

CATALOG #

SCVM						
Model	Size	Version	Color Temp <sup>1</sup>	Nominal Lumens <sup>1</sup>	SpectraClean Output <sup>2</sup>	Lens
SCVM Vaportite with SpectraClean	4 4' 8 8'	B Blended BP Blended Plus N Independent D Dedicated	30 3000K 35 3500K 40 4000K 50 5000K	VW 4' (3200); 8' (6400) LW 4' (4200); 8' (8400) ML 4' (4800); 8' (9600) HL 4' (5600); 8' (11,200)	L1 Level 1	SFA Smooth Frosted Acrylic SFP Ribbed Frosted Polycarbonate

Driver <sup>3</sup>	U Voltage	Options
E Fixed Output ED 0-10V Dimming	U 120-277V	GLR Fast Blow Fuse SSL Stainless Steel Tamper Resistant Ready Latches TP Tamper Proof Latches SWH Single Wet Hub 1/2" NPT Hub DWH Dual Wet Hub 1/2" NPT Hub F3C8W 3 Wire 8' Wet Cord F3C15W 3 Wire 15' Wet Cord F5C8W 5 Wire 8' Wet Cord F5C15W 5 Wire 15' Wet Cord

### Accessories

- ☐ XEDPM Dual Pendant Mount
- ☐ XEHC Chain Hanger Kit
- ☐ XE45MB 45° Mounting Bracket Galvanized
- ☐ XE45MBSS 45° Mounting Bracket Stainless

### Notes:

- 1 For Dedicated (D) mode, leave blank
- 2 For Blended (B) mode, leave blank
- 3 E for Dedicated (D) only; ED for Blended (B), Blended Plus (BP) and Independent (N) modes only

Example: SCVW4-D-L2-FAW-EU

CATALOG #

SCVW	4						W
Model	Size	Version	Color Temp <sup>1</sup>	Nominal Lumens <sup>1</sup>	SpectraClean Output	Lens	Distribution
SCVW Vaportite with SpectraClean	4 4'	D Dedicated N Independent	30 3000K 35 3500K 40 4000K 50 5000K	L 12,000 M 16,000 MH 18,000	L1 Level 1	FA Frosted Impact Resistant Acrylic FP Frosted Polycarbonate	W Wide

Driver	U Voltage	Options
E Fixed Output ED 0-10V Dimming	U 120-277V	GLR Fast Blow Fuse SSL Stainless Steel Tamper Resistant Ready Latches TP Tamper Proof Latches F3C8W 3-wire 8' Wet Cord F3C15W 3-wire 15' Wet Cord F5C8W 5 Wire 8' Wet Cord F5C15W 5 Wire 15' Wet Cord SWH Single Wet Hub 1/2" NPT Hub DWH Dual Wet Hub 1/2" NPT Hub

### Accessories

- ☐ LHVQM5 5' Aircraft Cable (Pair)
- ☐ LHVQM10 10' Aircraft Cable (Pair)
- ☐ XEWHK V-Hook (includes 2)
- ☐ XEWRBZN Zinc Plated Rigid Surface Mount Bracket Kit (includes 2)
- ☐ XEWRBSS Stainless Steel Rigid Surface Mount Bracket Kit (includes 2)
- ☐ XEWFBS Stainless Steel Surface Mounting Bracket Kit (includes 2)

### Notes:

- 1 For Dedicated (D) mode, leave blank



## SCST | SpectraClean™ Striplight

- 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



Example: SCST4-B-35ML-EDU

CATALOG #

SCST													U		
Model		Size		Version		Color Temp <sup>1</sup>		Nominal Lumens <sup>1</sup>		SpectraClean Output <sup>2</sup>		Driver <sup>3</sup>		Voltage	
SCST	Lensed	4	4'	B	Blended	30	3000K	LW	4' (4200); 8' (8400)	L1	Level 1	E	Fixed output	U	120–277V
	Striplight with SpectraClean	8	8'	BP	Blended Plus	35	3500K	ML	4' (4800); 8' (9600)			ED	0–10V Dimming		
			N	Independent	40	4000K	HL	4' (5600); 8' (11,200)							
			D	Dedicated	50	5000K									

### Options

**GLR** Fast Blow Fuse  
**PAF** Paint After Fabrication

### Accessories

- ☐ **S18** 18" Stem  
☐ **SS18** 18" Swivel Stem - 45° Swivel  
☐ **CSHC** Chain Hanger Assembly  
☐ **LCLWG4** 4' Wire guard, 2 Required for 8' fixture

### Notes:

- 1 For Dedicated (D) mode, leave blank
- 2 For Blended (B) mode, leave blank
- 3 E for Dedicated (D) only; ED for Blended (B), Blended Plus (BP) and Independent (N) modes only

## SpectraClean™ Trial Installation

Hubbell Lighting's Compare in the Air program offers risk free trial installation of four SpectraClean luminaires for 120 days. This program allows you to see the effect of SpectraClean technology before purchase.

- STEP 1 – Select 4 qualifying SpectraClean lighting fixtures for trial  
 STEP 2 – Order up to four fixtures and mark order with "COMPARE IN THE AIR"  
 STEP 3 – Receive 120 day dating terms on the order  
 STEP 4 – Install the products and measure the effectiveness

**120 DAY**  
**Compare**  
 IN THE AIR

\*Freight and installation charges are the responsibility of the customer

\*\*If you decide to keep the products, simply pay the invoice when it is due. If you elect to return the products, you need only to request an RGA within the 90-day period and return the products to us in the original cartons at your expense.

\*\*\* Once we receive the return and confirm it is in good condition, we will immediately issue a credit memo to 100% offset the cost of the original invoice.

## Coordinated Lighting Fixture and Control Solutions



Recessed Mounting  
 Architectural Edge-Lit LED  
 Exit Signs



Ration Floodlight Series



Ratio Area/Site Family



NX Distributed  
 Intelligence™



Peloton High  
 Performance High Bay



**HUBBELL**  
 Outdoor Lighting

**HUBBELL**  
 Control Solutions

**Columbia**  
 LIGHTING

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