GS Lighting Group
A division of Gross Sales Ltd.

2021
INDUSTRIAL LIGHTING SOLUTIONS

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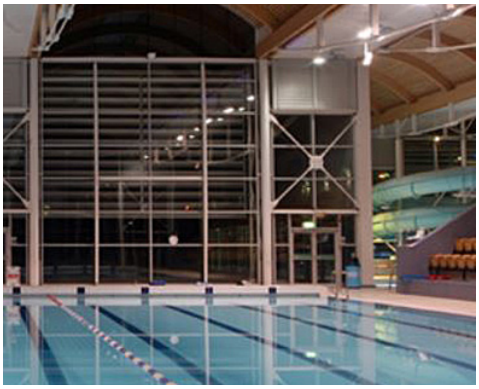
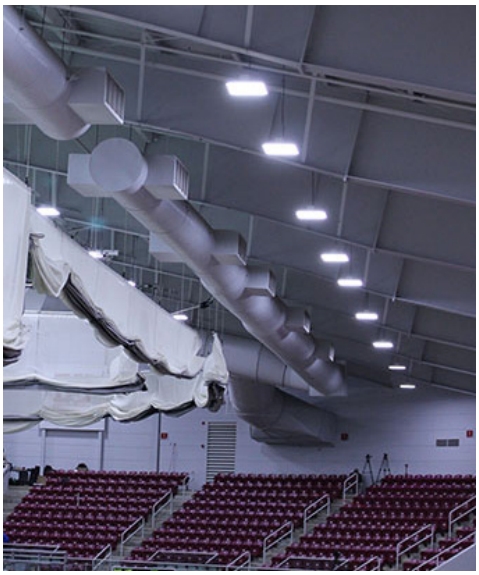
INDUSTRIAL LED LIGHTING APPLICATIONS

From light to heavy manufacturing, Food Processing, Warehousing and Hazardous Environments, GS Lighting Group offers a wide range of LED highbays/lowbays and the expertise to recommend the suitable LED solution for your environment. Understanding LED technology is critical in selecting a Luminaire that is designed for the industrial environment you are looking to light. LED Technology is susceptible to heat, moisture, dirt, and power surge. When we review LED luminaire designs we want to know if high temperatures are in the location of the fixture mounting as this will cause LED damage or failure, Moisture in an environment will demand a IP rating on a fixture, and any industrial environment demands power surge protection in a luminaire and at the distribution points. All these criteria's and more are what we review as part of our design proposal and education in the recommended fixture solution. Our goal is to provide a light design that provides recommended light levels, quality lighting for the users of the space, energy efficiencies and hydro reductions and solutions that will provide long term cost avoidance.





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INDUSTRIAL LED LIGHTING APPLICATIONS - FIXTURE SELECTION

INDUSTRIAL LIGHTING - WAREHOUSING / MANUFACTURING

CLB
LINEAR HIGH BAY

- Lumen packages range from 10,000 to 57,000 lumens
- Narrow and Wide lens distribution options
- -40°C to 50°C ambient operating temperatures
- 4000K and 5000K options with 80 CRI
- IP4X rated

CRN2
WET LOCATION HIGH BAY

- Efficient wet location high bay
- Suitable for a variety of areas including warehouses, gyms, covered outdoor areas, garden centers and mezzanines
- Polycarbonate lens with reflector options provide glare reduction and aesthetic customization
- Efficacy up to 144 LPW assures energy savings over traditional high bay Luminaires
- Offers lumen packages from 14,000 to 38,000 lms for proper illumination on a variety of high bay applications

ALBEO LED LUMINAIRE - ABV3
MODULAR HIGH BAY & LOW BAY LIGHTING

Introducing the latest in the renowned ABV series, the Albeo® ABV3 LED luminaire improves upon an already industry leading platform to provide unrivaled value and quality that only Current can provide. With new options up to 200+ LPW, quick ship eligible configurations, and all product assembled & shipping from the USA, it's hard to find a better fit for retrofit or new construction projects. Designed to replace 150W – 1500W HID and four to eight-lamp T5 or T8 fluorescent lamp fixtures.

LUMINATION LED LUMINAIRE
LPS SERIES

Current's Lumination LED Pendant Suspended Series is designed to deliver efficient lighting for commercial and retail applications. These exceptionally energy proficient lighting fixtures have a long life and deliver a remarkable qualified lumens per watt allowing for lower maintenance and operating costs. Choose from several lumen, CRI, and CCT options in addition to refractor and lens accessories. The LPS Series is easy to install – great for commercial, retail, grocery, and gymnasium applications.

INDUSTRIAL LIGHTING - HEAVY MANUFACTURING

TRIPLE H
HIGH AMBIENT HIGH OUTPUT HIGH EFFICACY HIGH BAY

- Wet location high bay rated for 100% lumen output at 65°C
- 60,000 lumens and 431W
- Great replacement fixture for existing 1000 watt HID high bays in tough
- Industrial locations
- Modular design and flexible optical choices

HBL
HEAVY INDUSTRIAL HIGH BAY

- Efficiently lights any large interior space such as heavy industrial settings, warehouses, gyms, churches, swimming pools/natatorium and shopping malls
- High performance LED design delivering up to 100 lumens per watt
- IP65/66 rated
- UL Sanitation Certified per NSF Standards
- Ambient Temperature range from -40°C to 55°C
- Three distinct distributions: aisle, narrow and wide

ALBEO LED LUMINAIRE - ABR2
HEAVY INDUSTRIAL HIGH BAY & LOW BAY LIGHTING

The Albeo® ABR2 LED luminaire is an IP66 rated fixture for demanding industrial environments with high ambient temperatures and wet applications. Utilizing a sealed form factor, the ABR2-Series offers customers a rugged design with exceptional performance and high reliability.

ALBEO LED LUMINAIRE - AH2A

The Albeo® AH2A LED fixture offers hazardous location lighting for a variety of demanding environments. Retrofit the GE Filtr-Gard™ H2 hazardous fixture and maintain UL 844 listing. Also, suitable for new construction. Perfect for high ambient temperatures and wet locations, the AH2A offers a rugged design with exceptional performance and reliability characteristic of Albeo luminaires.

INDUSTRIAL LIGHTING - FOOD PROCESSING

LXEW
ENCLOSED AND GASKETED HIGH BAY

- Wide-body enclosed and gasketed 4' high bay
- IP65, IP66 and IP67 rated
- 1500 PSI High Pressure Hose down rating
- Fiberglass housing with F1 weatherability rating, standard
- UL Sanitation Certified per NSF Standards
- Stainless steel latching and mounting straps optional
- V-Hook mounting brackets included standard
- -40°C up to +50°C ambient operation
- IK10 rated when ordered with polycarbonate lens

SCVW
SPECTRACLEAN™ WIDE ENCLOSED & GASKETED VAPORTITE

- Option 1: Independent — Alternates between pure white light and Dedicated SpectraClean mode for scheduled maximum disinfection
- Option 2: Dedicated — Concentrated SpectraClean (405 nm only) mode for maximum disinfection
- Impact resistant frosted acrylic lens or optional frosted polycarbonate lens
- Removable gear tray electrical access
- -40°C (-104°F) up to +30°C (86°F) ambient operation

ABN1
ALBEO™ LED LUMINAIRES

The Albeo® ABN1 LED luminaire is a versatile NSF rated fixture capable of 9,000-28,000 lumens with excellent color rendering. Ideal for high and low bay applications in food packaging and clean facilities, the ABN1 is designed to replace 150W-750W HID fixtures with unmatched reliability, low-profile design, and easy cleaning.

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EXTERIOR SITE LIGHTING - POST TOP, FLOOD, WALL PACKS, LANDSCAPE

52% Energy Savings

- $155 Annual Savings Per Fixture compared to 400W MH (460 Watts)

Ratio LED

- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues.

63% Energy Savings

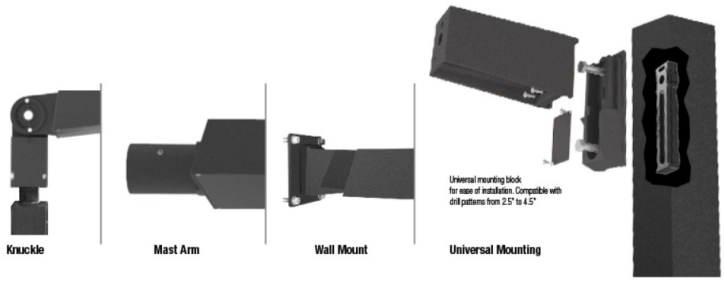
- $233 Annual Savings Per Fixture compared to 750W MH (764 Watts)

Viper LED

- The Beacon Viper luminaire is available in two sizes with a wide choice of different LED Wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

Ratio family of post top, wall and flood

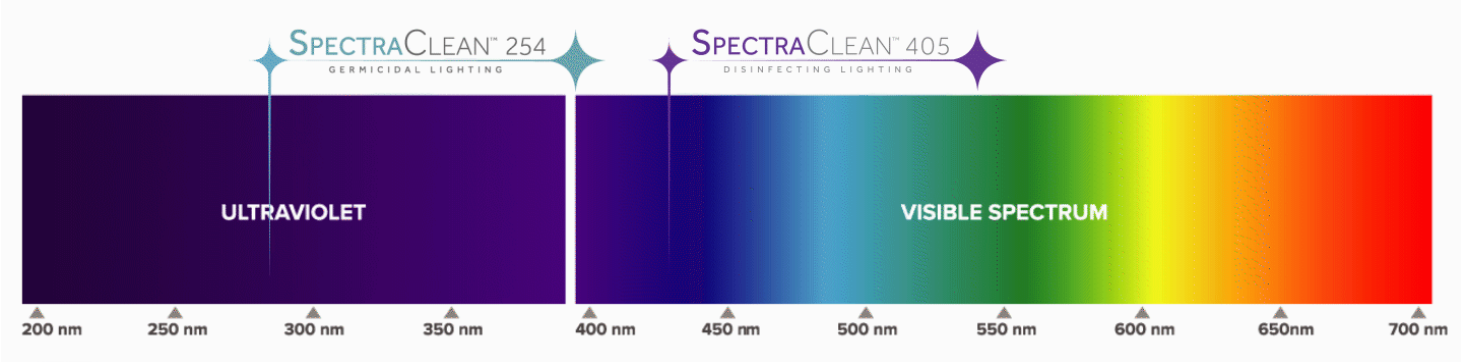
Size	RAR1-80L	RAR1-160L	RAR2-320L	RAR2-480L
Lumens	3,000/6,000	9,000/18,000	15,000/21,000	24,000/48,000
Watts	25/50W	70-135W	110-165W	185-340W
LPW	120	129	136	136
Mounting	Arm & Knuckle	Arm & Knuckle	Arm & Knuckle	Arm & Knuckle
CCT	3K, 4K, 5K	3K, 4K, 5K	3K, 4K, 5K	3K, 4K, 5K
Distributions	II, III, IV, V	II, III, IV, V	II, III, IV, V	II, III, IV, V
IP Rating	IP66	IP66	IP66	IP66
Legacy Equivalence	100-175W	175-400W	250-400W	400-750W



Size	RFL2	RFL3	RFL4	RFL5
Lumens	3,500	5,000/7,000	12,000/15,000	18,000/25,000/30,000
Watts	25W	40/50W	95/120W	130/190/265W
LPW	130	125/140	125/130	125/130/115
Mounting	Knuckle, Trunnion	Knuckle, Trunnion	Knuckle, Trunnion	Knuckle, Trunnion
CCT	3K, 4K, 5K	3K, 4K, 5K	3K, 4K, 5K	3K, 4K, 5K
Distributions	N, M, W	N, M, W	N, M, W	N, M, W
IP Rating	IP66	IP66	IP66	IP66
Legacy Equivalence	100-150W	175-250W	250-400W	750W-1000W

Size	RWL1	RWL2
Lumens	1,000–5,000	6,000–19,500
Watts	10–45	45–155
LPW	136	148
CCT	3K, 4K, 5K	3K, 4K, 5K
Distributions	III, IV	II, III, IV
IP Rating	IP65	IP65
Legacy Equivalence	42W–175W	175W–400W

INTRODUCING MORE SpectraClean™ SOLUTIONS FOR THE MOST CHALLENGING TIMES AND ENVIRONMENTS



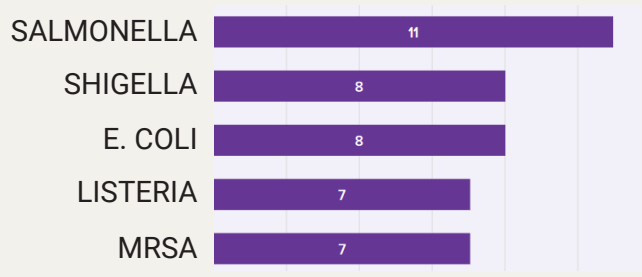
SpectraClean™ 405
ANTIMICROBIAL LIGHTING

SpectraClean™ 405 combines white and narrowband 405 nanometer visible light to effectively suppress bacteria, molds, fungi and yeast. Columbia Lighting's SpectraClean™ 405 luminaires provide continuous light disinfection for occupied and unoccupied spaces in commercial applications. When coupled with NX Distributed Intelligence occupancy sensors and room controllers, SpectraClean™ 254 luminaires can be controlled based on usage or with pre-programmed schedules.

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. Perfingens
- Salmonella
- Staphylococcus aureus
- E Coli
- Listeria
- Clostridium Difficile
- Shigella
- Bacillus cereus

Hours to Full Inactivation*
(SpectraClean Dedicated Mode)



*Results based on laboratory testing, outcomes in actual applications may vary.

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

Coming soon! Disinfectant Lighting to kill bacteria and virus'

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GE current
a Daintree company

365DisInFx™ technology

UVA

UVC

Unique offerings to help in disinfection strategy

LDU Downlight, LBU Recessed and AVU Linear

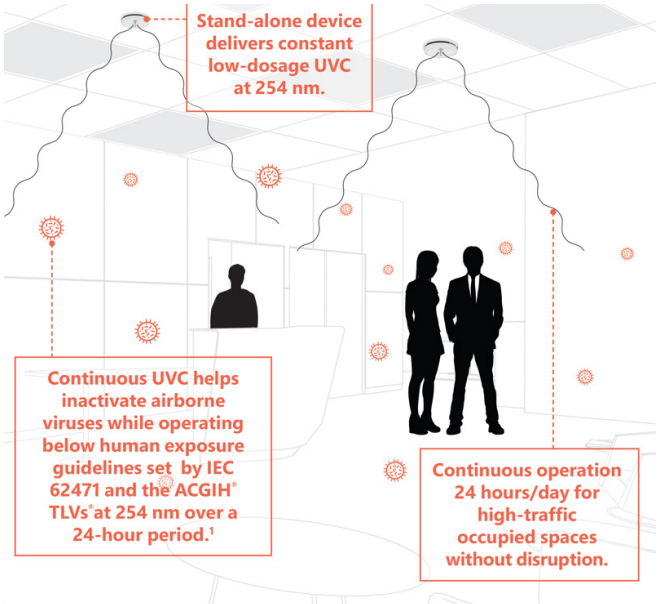
- Delivers low-dose UVA to inactivate bacteria on surfaces
- Integrated into various light fixtures
- Fixture light source available with wired or wireless controls
- Glass lens transmits UVA

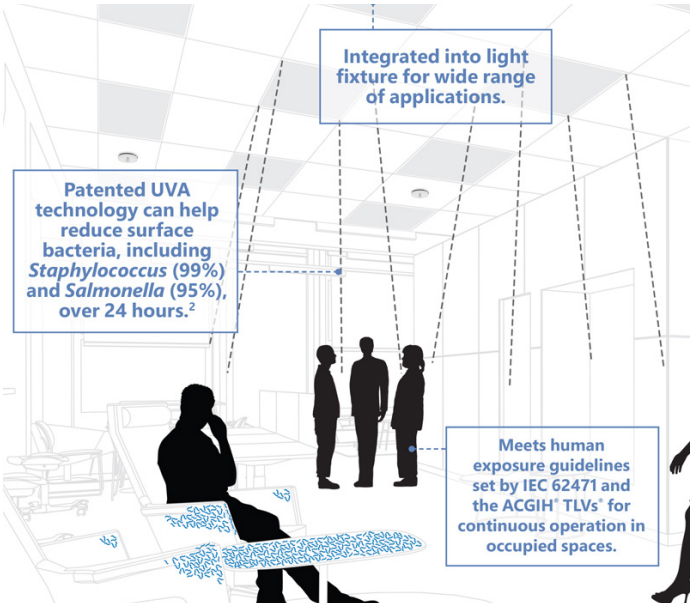
LPU Device

- Delivers low-dose UVC to inactivate aerosolized viruses
- An easy-to-apply device
- Small (5” diameter, 1.2” deep), easy to install and fits most ceiling designs
- Similar in appearance to a standard smoke detector

Air Disinfection
UVC solutions can help reduce viruses in air. Based on testing using a bacteriophage MS2 model system, Current predicts that 365DisInFx™ UVC technology will provide 99% inactivation with less than 6 hours of exposure for seasonal coronaviruses, including SARS-CoV-2, the virus that is known to cause COVID-19, when used as directed.

Surface Disinfection
UVA solutions can help reduce bacteria and fungi on surfaces. Our in vitro testing with eight hours of exposure has shown significant reductions in common pathogens associated with hospital acquired infections (HAIs), such as MRSA, Staphylococcus aureus, Enterococcus faecalis, Escherichia coli, Acinetobacter baumannii, Pseudomonas aeruginosa, Candida albicans and auris.





Disinfection Lighting for Occupied Spaces: 365DisInFx™

- LED-delivered solutions that help inactivate pathogens both in the air and on surfaces
- LED solutions designed to deliver 24-hour deactivation in occupied spaces
- Meets IEC 62471 standards and ACGIH® guidelines for 24-hour-a-day occupancy

365DisInFx™ UV technology addresses airborne pathogens and should be used in conjunction with proper PPE and cleaning protocols as part of a complete indoor disinfection strategy. If combining two or more UV solutions, please consult a trained product application representative to ensure the total irradiance (UV dose) does not exceed recommended human exposure limits. This may negatively impact inactivation rates

Coming soon! Disinfectant Lighting to kill bacteria and virus’

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SAVE ON ENERGY
POWER WHAT'S NEXT

SAVING ENERGY IS ALWAYS A BRIGHT IDEA.

Upgrade to new LED lighting with saveONenergy incentives to shorten payback periods, reduce maintenance costs, and cut operating costs.

OUR PROCESS AND PROCEDURE

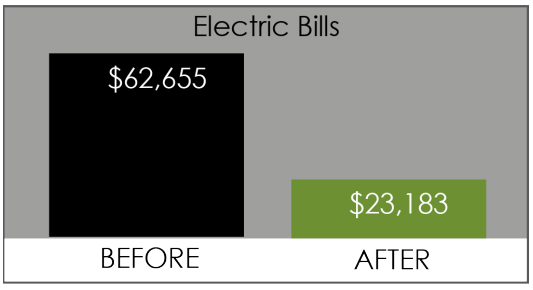
Step 1 – Evaluation and Audit:
Our energy team will meet with your client group to understand your objectives and goals, your lighting requirements for user groups in each space and then audit existing lighting systems (wattages, voltage, lighting levels)

Step 2 – Education and Design:
GS Lighting Group will provide a design process that allows for a level of explanation and education on various lighting systems. We believe in providing clients clarity in the design process to facilitate an understanding of LED fixture technology and control options. Our design team will provide computer generated interior and exterior lighting designs plans on reflected building and site drawings, so you can visual future results. This process will provide you an expectation for installed results. We can provide educational seminars to your management group and supply samples for review.

Step 3 – The Proposal:
This step takes the above design to a ROI stage. We will provide you all the details. What your current installed lighting systems is, current lighting levels and current energy load. The proposal will provide the approved design, fixture specs, the expected design light levels and cost. Our proposal will breakdown a Return on Investment based on your energy reduction load.

Step 4 – Implementation:
Once you are certain that our proposal meets all your requirements and goals, we can help with the submitted IESO retrofit Save on Energy Program paperwork to help you submit your retrofit for approval and receive the rebates available.

Step 5 – Installation:
We can provide you an option for a turnkey solution with a licenced and certified Electrical Contracting company.



Energy Savings: 62.6%

Prior to the retrofit, the dealership's outdoor lighting consumed 626,546 kWh annually. After the LED retrofit, the electricity consumption fell to 234,183 kWh—or a 62.6% decline. When calculating that drop with a utility rate of $0.10 per kWh, the dealership reduced its electricity bills from $62,655 to an estimated $23,183— an eye-opening $39,472 in just one year.

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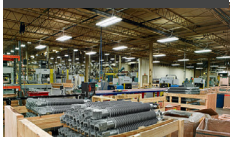
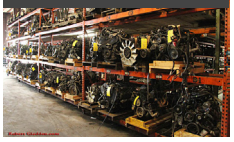
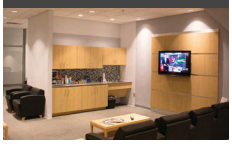
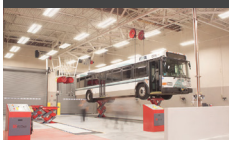
GS Lighting Group, a division of Gross Sales Limited is proud to be celebrating over 25 years in the lighting business. Since 1990 we have a vision of supporting our clients with professional lighting services with leading lighting technology from all our manufacturing partners.

Why you should consider LED Retrofits

GS Lighting Group can help you achieve the following dramatic benefits without costly infrastructure changes.

- Reduce your hydro usage on Lighting by up to 70%
- Reduce long term maintenance and labour cost
- Improve employee satisfaction and productivity
- Improve light levels and quality
- Improve facility safety – interior and exterior
- Improve patient or resident comfort
- Improve doctor and nurse patient care
- Enable lighting control systems – dimming, motion / daylight sensors, etc.
- Reduce your carbon footprint
- Provide corporate stewardship on environmental concerns

up to **70%** energy savings	up to **70%** energy savings	up to **70%** energy savings	up to **70%** energy savings	up to **70%** energy savings	Additional **10-20%** reductions
PLANT	WAREHOUSE	OFFICE	PARKING LOT	SHOP	CONTROLS
					

Book your Lighting Audit, Design Meeting or Lighting Seminar today.

GS Lighting Group Healthcare LED solutions Group

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