CORRECTIONAL FACILITIES WASTE WATER TREATMENT PORTS & RAIL

Infrastructure Lighting & Controls Solutions









Delivering unparalleled performance

No matter the complexity of your project, Cooper Lighting Solutions offers a wide range of LED solutions that lower operating costs, reduce energy consumption, and improve security of outdoor and indoor spaces. The cutting-edge functionality of our products provide unmatched quality and attention to detail.

- **6** Correctional Facilites
- 14 Ports and Rail
- 20 Waste Water Treatment



Cooper Lighting Solutions has everything you need to keep your facility safe and secure for years to come.

Cooper Lighting Solutions — Your trusted partner in complete lighting solutions.

Achieve immediate payback by upgrading to our LED products.

Cooper Lighting Solutions offers the infrastructure industry the most competitive, compliant product and service portfolio as a one-stop shot for end to end lighting and control solutions.

At Cooper we believe credibility is key. We are committed to providing LED solution that meet the highest standards of reliability and performance. Cooper's deep rooted understanding of outdoor product markets and application needs has been amassed through decades of supplying quality products, service and support.

The lifetime of the LED luminaires is unmatched versus its HID counterparts with no lamp maintenance and allow for large ranges in voltage drops without losing light. We combine reliability and expertise into every product, providing you with labor and maintenance savings, simplified installation, and improved productivity. Whether you're looking for general lighting or cutting-edge functionality, you'll find unmatched quality and attention to detail.



BEFORE 400W Pulse Start Metal Halide14 Fixtures = 6,370 Total Watts



AFTER LED

14 Fixtures = 2,002 Total Watts



Correctional Facilities

Offering comprehensive solutions to meet all of your application needs



In our outdoor wall mount portfolio, you'll find options for every job - from functional and cost-effective to more performative options.

High Mast

The high mast luminaire is a high performance and affordable solution for facilities in need of high lumen packages with accurate optical control.

Flood

Effectively illuminating large areas is a big task, requiring you to balance security needs with local codes while controlling costs. With the right floodlighting solutions, you can rise to the challenge every time.

Area / Site

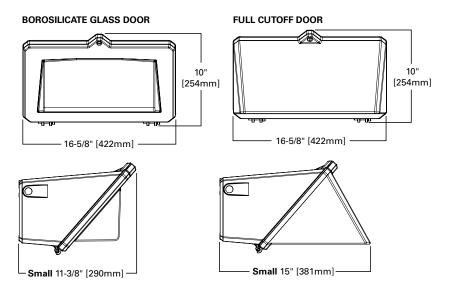
With our suite of expertly - designed lighting products, we've combined the optical performance and efficiency you need with features that make the installation process painless.

1

Correctional Facilities Correctional Facilities

Maximum performance and minimum maintenance.

The Wal-Pak Series of wall luminaires provides traditional architectural style with high performance energy efficient illumination. Rugged die-cast aluminum construction, stainless steel hardwaralong with a sealed and gasketed optical compartment make the WalPak virtually impenetrable to contaminants. IP66 Rated. UL and cUL wet location listed. The Wal-Pak wall luminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.















High output and efficiency. Easy install and affordability.

The Celesteon LED high mast luminaire combines high output and efficiency with easy install and affordability. Designed for new and retrofit high-lumen applications, the Celesteon LED high mast is ideal for highways, interchanges, ports, rail yards, container yards, parking lots, correctional facilities, security lighting, treatment plants and other facilities in need of high lumen packages with accurate optical control.

DURAO HIGH PERFORMANCE DRIVER

- Does not contribute to EMI noise
- Long operating life (> 20 years)
- High reliability
- Robust and scalable system (from 100W -100kW)
- Lower DC ripple
- Reduced SKUs with multiple voltage configurations using winding taps
- No power interruptions or LED flicker

SWITCHING DRIVER

- Generates EMI, requires EMI filter
- Short operating life (5-10 years with additional cost)
- Limited reliability, susceptible to surges and power transients
- Limited to UNV input range. 347-480V requires additional SKUs
- May shut-down and restart if input voltage and temperature change















COOPER LIGHTING SOLUTIONS Correctional Facilities - LED Lighting & Controls Solutions

COOPER LIGHTING SOLUTIONS Correctional Facilities - LED Lighting & Controls Solutions 9

Correctional Facilities Correctional Facilities

Low profile. High performance.

The USSL Discrete area and site luminaire combines optical uniformity, energy efficiency and long-term reliability in an advanced, patent pending modern design. Now utilizing a direct-mounted discrete light engine, the USSL Discrete luminaire delivers unparalleled uniformity and improved visual comfort. A versatile guick mount standard arm facilitates ease of installation for both retrofit and new installations. The USSL Discrete fixture replaces 150-1,000W metal halide fixtures in general area lighting applications such as parking lots, walkways, roadways and building areas.

DESIGN FEATURES



Versatile mount arm Mounts to multiple drilling patterns 1-1/2" to 4-7/8"



Versatile mount arm Simple knock-out allows for mount to square or round



Discrete LED Optics Maximize area coverage with superior uniformity and visual comfort.

Designed for reliability and value.

The Night Falcon high wattage LED floodlight combines high-efficiency, precision engineered optics and energy efficiency in a cost-effective solution. Incorporating an innovative thermal management design into the fixture, that maximizes heat dissipation, results in longer fixture and LED life. The Night Falcon high wattage LED floodlight is the ideal floodlight for applications including parking lots, construction and storage sites, rail yards, light industrial locations, marinas and service areas.















HIGH EFFICIENCY OPTICS

Maximum fixture spacing is achieved with the precisely designed NEMA 6H x 6V wide and 3H x 3V spot distribution.

BUILT TO LAST

The rugged, die-cast housing is IP66 and 3G vibration rated for exceptional durability and long term reliability.

MOUNT, AIM, DONE,

The fixture weighs only 48 pounds, which simplifies installation. Select from several versatile mounting configurations including an integral slipfitter or a galvanized steel trunnion mount.

















Correctional Facilities Correctional Facilities

Fail-Safe

Fail-Safe

Unsupervised Areas

Cells







Work Spaces



5

- Inmates regularly present in these areas for long periods of time
- Guards only pass by periodically; not continuously present
- Fixtures typically mounted at lower heights and easy to reach
- Lens and metal thicknesses are thick to withstand regular, extended periods of potential high abuse

Supervised Areas

- -



Showers



Work Spaces



- Inmates regularly present in these areas for long periods of time
- Guards only pass by periodically; not continuously present
- Fixtures typically mounted at lower heights and easy to reach
- Lens and metal thicknesses are thick to withstand regular, extended periods of potential high abuse

Unsupervised Areas

Click on products to learn more



		FMB	FMR	FCC	FUSL
lity	Cells	***	***	***	***
plicabil	Showers		***	***	**
Apl	Work Spaces	**	***	**	***
	Mounting	Wall	Recessed	Corner	Surface

	Mounting	Wall	Recessed	Corner	Surface	
	Size	2', 4'	1x1,1x2,1x4, 2x2, 2x4	2', 4'	2', 4'	
Features	Max Lumens*	5,264 / 5,264	9,960	7,178	11,832	
Feat	Wet Location	N/A	Optional	Optional	Optional	
	Max Metal Ga. / Thickness	12 ga / 0.109"	12 ga / 0.109"	12 ga / 0.109"	12 ga / 0.109"	
	Max Total Lens Thickness	.750"	.875"	.875"	.687"	

Notes: 1. * * * = high applicability, * * = medium applicability, * = low applicability, blank = non-applicable

*Max Lumens with 0.250" Polycarbonate Lens

Supervised Areas

Click on products to learn more







		FCT	FMS	TR15	
Applicability	Hallways	***	***	**	
	Cafeterias	**	***	**	
	Visiting Spaces	***	***	***	

	Mounting	Surface	Surface	Wall		
Features	Size	2', 4'	1x1,1x2,1x4,2x2,2x4	15" Round		
	Max Lumens*	16,700	15,300	4,875		
	Wet Location	N/A	Optional	Standard		
	Max Metal Ga. / Thickness	12 ga / 0.109"	12 ga / 0.109"	N/A		
	Max Total Lens Thickness	.500"	.860"	0.135"		

Notes: 1. $\star\star\star$ = high applicability, $\star\star$ = medium applicability, \star = low applicability, blank = non-applicable

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^{**}Nominal Lens Thickness

Ports & Rail

High quality precise lighting to maximize safety, security, and productivity



High Mast

Designed for new and retrofit high-lumen applications, the Celesteon is perfect for ports, rail yards, container yards where high lumen packages and accurate optical control is paramount.

Flood

Cooper Lighting's flood luminaires light the way to sustainable and economic solutions. Built with the installer in mind our floodlights deliver simplicity and versatility.



Cobrahead

Our area/site and roadway luminaires are designed for easy install, superior performance, and long term energy and maintenance savings.

Ports & Rail Ports & Rail

Designed for reliability and value.

Cooper Lighting's UFLD family of LED Floodlights are designed to meet your most challenging specifications while keeping your project budget intact. With outputs from 2,600 to 52,000 lumens, you can choose the fixture to meet your exact lighting requirements, and three housing sizes scaled to the lumen packages ensure you never buy more fixture than you need.

























High optical performance and customer focused features.

The Archeon Large LED roadway luminaire delivers all the optical performance benefits from the advanced LED technology in a modern, yet familiar cobrahead design. The patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination and our customer-focused features include single latch tool-less entry for easy installation and maintenance, and industry-leading surge protection and control options.

ROADWAY LIGHTING, WE'VE GOT YOU COVERED

The Archeon family is available in 4 sizes to satisfy specific application needs, while offering a cohesive look when desired.

PRECISELY DESIGNED OPTICS

A choice of 6 high efficiency AccuLED Optics, available in Type II, III, IV wide and V square wide, are precisely designed to shape the distribution. maximizing efficiency and application spacing.

ALL-IN-ONE LIGHTING AND SURVEILLANCE

Lighting is everywhere. Why shouldn't it do more? Outdoor lighting provides the perfect platform for safer, more connected communities. Now. besides just keeping key areas well-lit, lighting can help you keep an eye on things.











High performance and precise optics.

The Celesteon LED high mast luminaire combines high output and efficiency with easy install and affordability. Designed for new and retrofit high-lumen applications, the Celesteon LED high mast is ideal for highways, interchanges, ports, rail yards, container yards, parking lots, correctional facilities, security lighting, treatment plants and other facilities in need of high lumen packages with accurate optical control.

AVAILABLE COLLATERAL























Waste Water Treatment

Delivering unparalleled performance and reliability with minimum maintenance

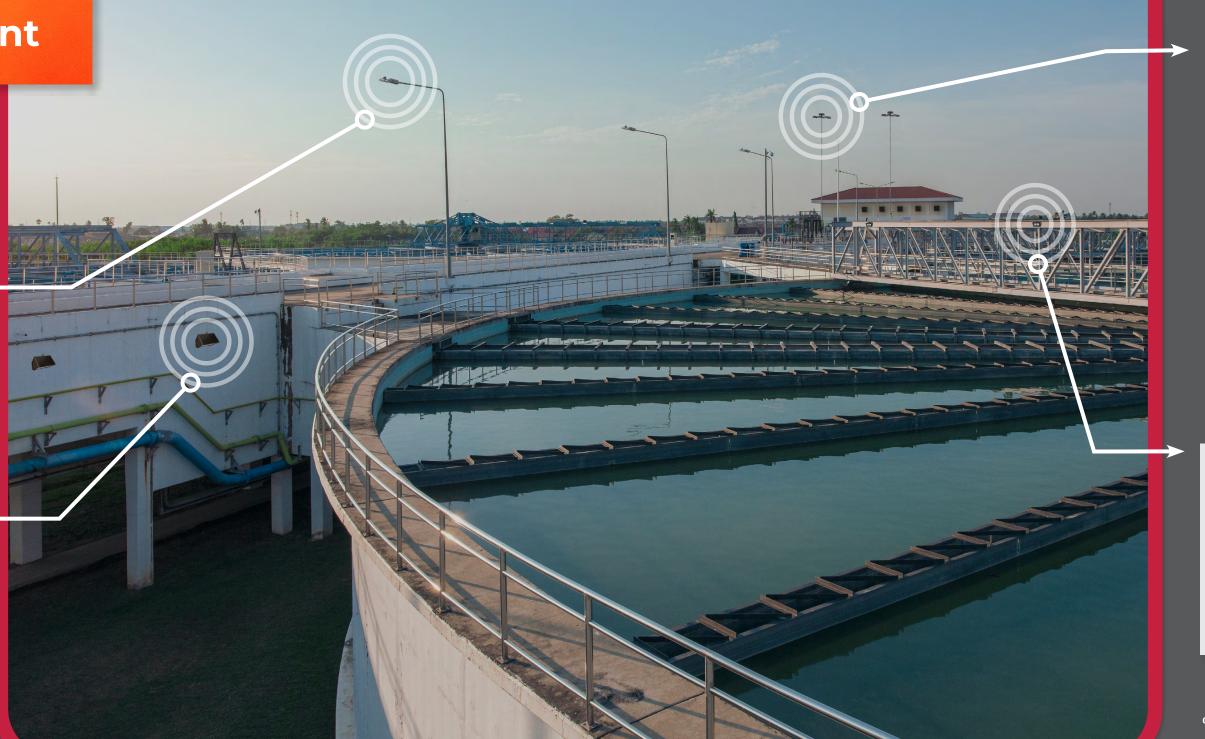


Designed to enhance security and aesthetics while meeting even the most demanding trespass specifications, these solutions feature zero uplight and tightly controlled backlight. Precision optics mean there's no project or zone that's too complex.



programmable settings.

Effective wall-mounted lighting helps guide people to their destinations and boosts safety. Cooper Ligthing Solution's wall-moounted lighting offers advanced features like AccuLED Optics, IP66 vibration ratings, and





High Mast

The high mast luminaire is a high performance and affordable solution for facilities in need of high lumen packages with accurate optical control.



Flood

With a range of optical distributions, lumen packages and controls compatibility, Cooper Lighting Solutions is your source for efficient, reliable general purpose LED utility and flood lighting. In addition, our products are compatible with existing mountings and refractors to minimize up-front expense, giving you better ROI.

Waste Water Treatment Waste Water Treatment

Durable and efficient with minimum maintenance.

The WKP Wal-Pak Full Cutoff provides a durable and efficient exterior light source for any application requiring maximum performance and minimum maintenance. The rugged, die-cast aluminum housing, stainless steel hardware and gasket sealed optics compartment combine to make the Wal-Pak virtually impenetrable to contaminants.

FULL CUTOFF DOOR













Designed for reliability

The UFLD LED floodlight luminaire combines high-efficiency optics, superior thermal management and energy efficiency in a cost-effective solution. The compact, robust design incorporates a separate driver compartment for maximum heat dissipation to insure longevity of both the fixture and the optics. The UFLD luminaire uses precision engineered optics delivering superior uniformity and excellent illumination to the targeted application. The UFLD luminaire is UL/cUL listed for wet locations and is IP66 rated.

OPTIONS AND ACCESSORIES

































Waste Water Treatment Waste Water Treatment

Engineered for Performance and Reliability.

With industry-leading, patented optics in a scalable package, the Verdeon LED area, site and roadway luminaire delivers state-of-the-art optical control, low maintenance costs and rugged construction in a modern style. The Verdeon luminaire provides warm, white light with superior color rendering and uniform illumination to the targeted surface while providing greater than 67 percent in energy and maintenance savings over traditional HID solutions. Whether the application is a roadway or industrial/municipal parking lot, the Verdeon luminaire is the choice for superior energy efficiency with unbeatable economics.

OPTIONAL FEATURES



Surge Protection

UL 1449 Listed 10kV/10kA surge protection against common (line-to-ground) and differential (line-to-line) mode surge.



7-PIN NEMA Twistlock Photocontrol Receptacle ANSI C136.41 compliant. Enables wireless dimming when used with compatible photocontrol. 3-PIN NEMA Twistlock Photocontrol also available.













Celesteon LED high mast luminaire combines high output and efficiency with easy installation and affordability. Designed for new and retrofit high-lumen applications, the Celesteon LED high mast luminaire is a high performance and affordable solution for highways, interchanges, ports, rail yards, container yards, parking lots, correctional facilities, security lighting, treatment plants and other facilities in need of high lumen packages with accurate optical control.

High output and efficiency.

Easy install and affordability.

DESIGN FEATURES







3 or 7-PIN NEMA receptacle





















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Area / Site Lighting



USSL-XL

USSL Discrete

USSL-XL Discrete

GAN Galleon

GAP Galleon Pedestrian







CRTK2 Caretaker

Vision Site

RDG Ridgeview

TMU Talon



UFLD-S







Roadway Lighting











Wall Mount Lighting

























XNV2

















VERD Verdeon

ARCH-M Archeon Medium

VERD-M Verdeon

WKP Wal-Pak Glass



Axcent Large



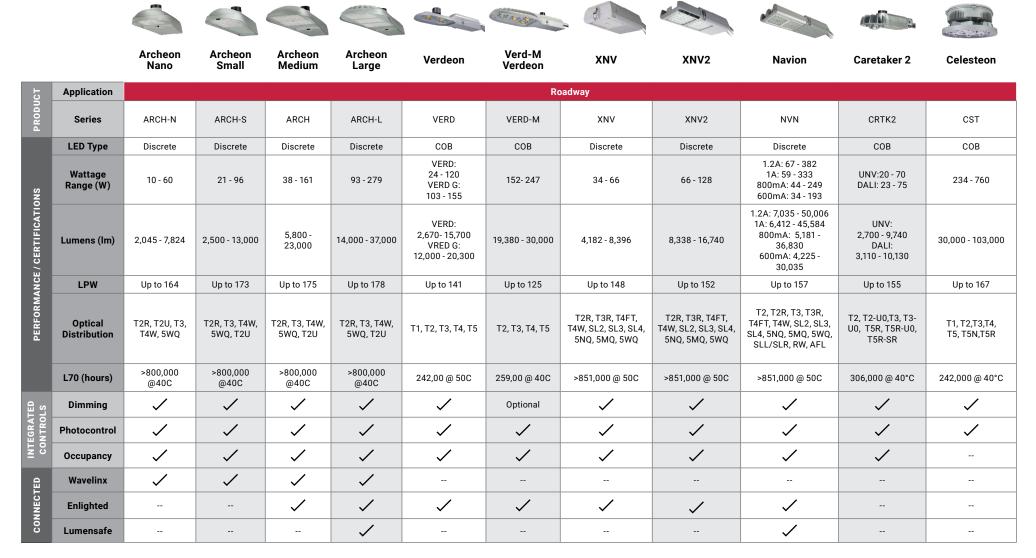








Infrastructure Solutions Infrastructure Solutions





















		UFLD-S	UFLD	UFLD-L	GAN	USSL / USSL-XL	USSL / USSL XL Discrete	Galleon Pedestrian	Galleon	GAW	WKP	WKP Wal- Pak Full Cut-Off	AXCS	AXCL
PRODUCT	Application		F	loodlighting			Area / Site Lighting			Wall Mount Lighting				
	Series	UFLD-S	UFLD	UFLD-L	Galleon Flood	USSL/ USSL-XL	USSL / USSL-XL	GAP	GAN	Galleon Wall	Wal-Pak Glass	Wal-Pak Full Cut-Off	Axcent Small	Axcent Large
	LED Type	СОВ	СОВ	СОВ	Discrete	СОВ	Discrete	Discrete	Discrete	Discrete	СОВ	СОВ	Discrete	Discrete
PERFORMANCE / CERTIFICATIONS	Wattage Range (W)	20 - 50	85 - 184	179 - 371	34 - 640	50 - 350	50 - 300	34 - 129	34 - 640	34 - 129	27 - 46	27 - 46	14 - 52	56 - 123
	Lumens (Im)	2,700 - 5,800	10,500 - 23,800	25,900 - 48,000	4,200 - 80,800	7,100 - 48,600	7,500 - 41,000	3,700 - 14.400	4,200 - 80,800	3,200 - 17,000	3,300 - 5,900	1,884 - 3,192	1,526 - 5,661	6,619 - 17,346
NCE	LPW	134	138	145	156	Up to 148	Up to 148	Up to 155	Up to 156	154	131	71	144	144
PERFORMA	Optical Distribution	6 x 6 Wide 3 x 3 Spot	6 x 6 Wide 3 x 3 Spot	6 x 6 Wide 3 x 3 Spot	T2,T2R,T3,T3R,T- 4FT,T4W,SL2,SL3, SL4,5Q,5MQ,5WQ, SLL/SLR,RW,AFL	T2, T3, T4, T5	T2R, T2U, T3, T4W, 5WQ	T2, T2R, T3, T3R, T4FT, T4W, SL2, SL3, SL4, 5NQ, 5MQ, 5WQ, SLL/SLR, RW, AFL	T2,T2R,T3,T3R,T- 4FT,T4W,SL2,SL3, SL4,5Q,5MQ,5WQ, SLL/SLR,RW,AFL	13	Glass	Full Cutoff	Type IV	Type IV
	L70 (hours)	> 399,000 Hrs	> 388,000 Hrs	> 393,000 Hrs	>851,000 Hrs	158,000 @ 40°C	>800,000 @ 50°C	205,000 @ 40°C	19,00,000 @ 40°C	> 851,000 Hrs	> 340,000 Hrs	> 340,000 Hrs	> 246,000 Hrs	> 556,000 Hrs
TED	Dimming	✓	/	✓	✓	/	✓	/	✓	✓			✓	✓
INTEGRATED	Photocontrol	✓	/	✓	/	/	✓	/	✓	✓	/	/	✓	/
CO	Occupancy		/		✓	✓	✓	✓	✓	✓			✓	✓
CONNECTED	Wavelinx				/	✓	✓	✓	/	✓			✓	✓
	Enlighted				/	✓	✓	✓	/	✓			✓	✓
	Lumensafe				/	/	/		/					

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Reliable. Robust. Proven.

smart digital lighting system.

The DuraQ high performance driver is the first of its kind in the lighting industry! Providing a robust design with superior operating life versus today's LED electronic drivers, the DuraQ driver is the go-to solution for long-life lighting needs.



Composed of wired and wireless sensors, load controllers, keypads, luminaires and other control devices, WaveLinx addresses energy efficiency and comfort requirements while seamlessly collecting and communicating data to value-added applications.



Your connected, scalable and

WAVELINX WIRELESS

Take complete control of your luminaires to create energy efficient spaces across multiple floors, buildings, and even multiple sites using your mobile device and our wireless lighting control system.



WAVELINX WIRED

Take complete control of all your luminaires (LED, fluorescent, incandescent) using our rich portfolio of wired DIN rail mountable wire-based controllers to create energyefficient spaces across multiple floors or multiple buildings.



WAVELINX LITE

Building upon known motion sensor solutions, the WaveLinx Lite solution eliminates all the hassles associated with a complex lighting controls solution making the commissioning process intuitive and flexible, giving more power to installers owners.

COOPER LIGHTING SOLUTIONS LED Lighting & Controls Solutions COOPER LIGHTING SOLUTIONS LED Lighting & Controls Solutions 31 Light ARchitect

Dream. Experiment. Plan.

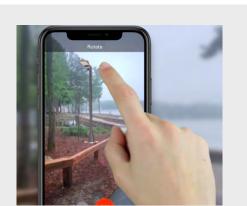
We've taken the guesswork out of lighting design with Light ARchitect: An augmented reality mobile app that lets you instantly visualize light fixtures in your space.

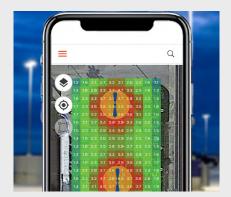


See your space in a new light with augmented reality.

We've taken the guesswork out of lighting design with Light ARchitect, an augmented reality mobile app that lets you instantly visualize light fixtures in your space.

- Browse state-of-the-art light LED fixtures and choose the ones you want to see in your space
- Adjust the fixture's finish, lumen output, mounting height, color temperature and more
- Virtually turn lights on to get the full effect
- Take screenshots to share and email to clients or colleagues





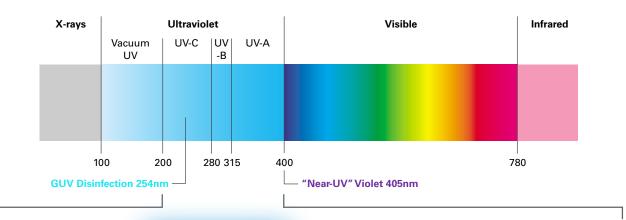




What is Disinfection Lighting?

Make a difference in a world that is adjusting to a new normal by empowering health and safety. Fail-Safe GUV Disinfecting Solutions leverage germicidal ultraviolet (GUV) to unlock the proven power of UV-C to kill bacteria, mold, fungi and inactivate viruses - including SARS-CoV-2 (a.k.a. SARS-CoV-2). GUV is chemical-free and disinfects in minutes, saving hours of costly manual labor.





Far UV

GERMICIDAL UV (GUV)

UVA/B

NEAR-UV



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Lighting Product Lines

Ametrix

AtLite

Corelite Ephesus

Fail-Safe Halo

Halo Commercial Halo Outdoor

Invue
io
Iris
Lumark
Lumière

McGraw-Edison

Metalux MWS Neo-Ray Portfolio RSA Shaper Streetworks

Sure-Lites

Controls Product Lines

Fifth Light Technology

Greengate

iLight (International Only)

iLumin Zero 88

Connected Lighting Systems

Distributed Low-Voltage Power

Halo Home iLumin Plus Enlighted WaveLinx



Correctional Facilities / Waste Water Treatment / Ports & Rail Infrastructure Lighting & Controls Solutions



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