Welcome
Vapor Tight & Utility Wraps in LED

July 25, 2013 Webinar

Utility Wrap

The cost-effective LED Utility Wraps LS Series are energy efficient solutions that meet the latest building and safety codes in residential multi-family buildings, as well as parking garages, workshops, utility rooms, corridors, stairwells and other commercial applications.

The LED Utility Wraps are perfect energy saving replacements for less efficient fluorescent wrap-around fixtures. The thermal and lumen balanced LED engines approach provides substantial efficiencies using the latest technologies.

Vapor Tight

Engineered for powerful lighting in a watertight enclosure used in high traffic installations, the IP66 rated LED Vapor Tight Linear Fixtures are designed to meet or exceed seven to 10 footcandles at eight-foot installed heights for parking drive lane compliance. The fixtures are designed as a replacement for fluorescent strip lights for use in carwash operations, airports, tunnels, maintenance areas, parking garages and stairwell lighting.

The LED Linear Fixtures use a vapor tight housing to protect the light source from water and dirt in harsh environments. The thermal and lumen-balanced LED engineering provides a cooler operation and greater energy savings based on new technologies. The fixtures are available in 2' and 4' sizes that use 20 to 45 watts.

Vapor Tight LED 2' & 4'

LED VAPOR TIGHT LINEAR FIXTURES
LSV Series

maxLED by MaxLite

A cost effective LED Vapor Tight Fixture features a full length polycarbonate lens and a one-piece white glass reinforced polyester (GRP) body. Designed to meet or exceed seven to 10 footcandles at 8' installed heights for parking drive lane compliance. The fixtures are ideal for utility lighting in parking garages and stairwells, meeting applicable building and safety codes.

PROJECT NAME	
CATALOG NUMBER	
NOTES	
FIXTURE TYPE	ROOM SCHEDULE

FEATURES:

- Thermal/lumen balanced light engines
- Non-corrosive glass reinforced polyester (GRP) housing
- Stainless steel specification grade hasps and clips
- Non-occupancy dimming option avail.
- Back and end knockouts
- Low power consumption
- Ceiling or wall mounted
- IP66-rated with hermetic sealing
- White finish standard
- CRI: >83CRI

24" LED Vapor Tight

48" LED Vapor Tight

CONSTRUCTION:

- One pieces glass reinforced polyester (GRP) body
- Milky white polycarbonate lens with inside ribbing
- Electrostatic paint steel chasis
- Universal voltage (120-277V)
- Class II driver

Thermal/ lumen balanced light engines – MaxLite engineered low drive rates allow cooler operating temperatures, which allows for less thermal heat sinking needed, and more, cooler and better performing LEDs that produce a higher lumen output.

ORDERING EXAMPLE: LSV4806U35DV41

CLASS	TYPE	LENGTH	WIDTH	APPLICATION	VOLTAGE	NOMINAL WATTAGE	DIMMING	CCT	OPTIONS
LS = Linear Utility	**V** = Vapor Tight	**48** = 50" **24** = 26"	**06** = 6.25"	**S** = Surface Mount	**U** = Universal 120-277VAC **3** = 347VAC **4** = 480VAC	**20** = 20W* **28** = 28W **35** = 35W **45** = 45W**	**BLANK** = Non-dimming **DV** = 0-10V Dimming	**41** = 4100K **50** = 5000K	**MS*** = Occupancy Sensor

*All data subject to change

*20W not available in 48 length
**45W not available in 24 length
***MS occupancy sensor requires DV 0-10v dimming

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LED VAPOR TIGHT LINEAR FIXTURES

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SPECIFICATIONS:

ITEM	SPECIFICATION	DETAILS - 24			DETAILS - 48		
GENERAL PERFOMANCE	Spacing Criteria	Available upon request			Available upon request		
	Color Temperature (CCT)	4100K, 5000K			4100K, 5000K		
	Wattage	20W	35W	28W	28W	35W	45W
	Delivered Lumens	1700-1850	2975-3220	2340-2575	2340-2575	2975-3220	3500-3800
	Standby Lumens*	355/890	620/1550	490/1230	490/1230	620/1550	730/1825
	Efficacy (LM/W)	89	88	87	87	88	81
	Color Consistency	Proprietary binning for uniform color			Proprietary binning for uniform color		
	Lumen Maintenance (L70)	50,000 hours			50,000 hours		
ELECTRICAL	Power Factor	Over 0.90			Over 0.90		
	Maximum THD	<20%			<20%		
	Input Voltage	Per specification			Per specification		
	Power Consumption	Per specification			Per specification		
PHYSICAL	Dimensions (W x L x H)	26" x 6.25" x 4.0"			50" x 6.25" x 4.0"		
	Weight	5 lbs.			7 lbs.		
	Housing	Glass reinforced polyester			Glass reinforced polyester		
	Lens	Ribbed polycarbonate white			Ribbed polycarbonate white		
	Mounting	Ceiling surface or wall mounted			Ceiling surface or wall mounted		
	Operating Temperature	-30°F to 130°F			-30°F to 130°F		
CERTIFICATION	Certification	UL**, FCC, LM79, LM80			UL**, FCC, LM79, LM80		
	Material Usage	RoHS compliant; no mercury			RoHS compliant; no mercury		
	Environment	Indoor / outdoor – wet, IP66			Indoor / outdoor – wet, IP66		
	LED Class	L70 rated to 50,000 hours			L70 rated to 50,000 hours		
	Warranty	5 year			5 year		

Lighting layouts and spacing criteria available upon request

*When used in combination with occupancy controls
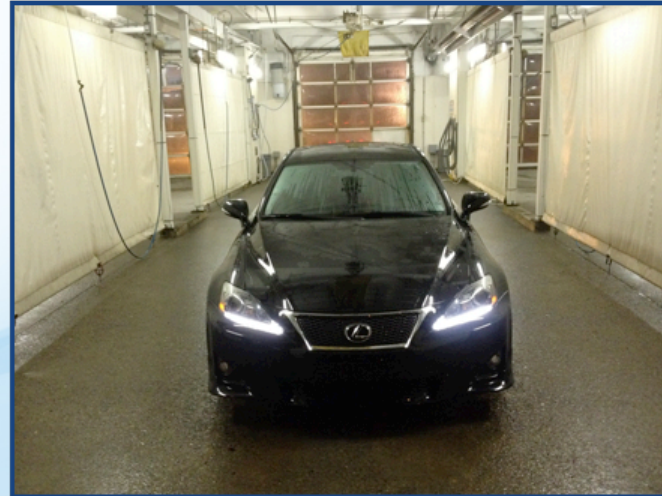Designed for sustainability, contact Maxlite for any repair or replacement components needed

DIMENSIONS:
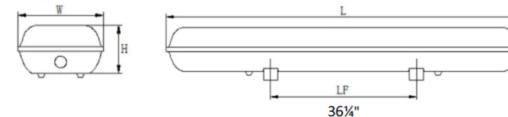
36¼"

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Vapor Tight LED Applications

Vapor Tight LED 2' & 4'
Features & Benefits

Durable lens
Milky white polycarbonate lens with inside ribbing

Durable body
One-piece, non-corrosive white glass reinforced polyester body protects the LED light source from water and dirt from vehicular traffic and natural elements

Parking drive lane safety and building code compliant
Delivers seven to 10 footcandles from eight-foot installed heights to comply with parking drive lane safety and building codes

Thermal and lumen balanced light engines
Enable cooler operating temperatures resulting in less thermal heat sinks, more LEDs performing better, increased lumen output and a more efficient operation

IP66-rated
IP66-rated fixtures with hermetic sealing

Mount to surfaces or ceilings
Surface- or ceiling-mounted to walls and ceilings for application variability

Color uniformity and even light distribution
Constructed with LED chips with high-ranked binning that ensures color uniformity and produces accurate color rendering, even light distribution and minimal glare

50,000 hour life
50,000-hour life, or more than 17 years operating 8 hours a day, is based on L70 standards (at 70 degrees F based on LM-80 data). When the LEDs reach 30 percent lumen depreciation, end-of-life is reached. This life cycle far exceeds halogen and CFL, and is almost double the life of linear fluorescents.

Universal voltage operation
Operates on 120- to 277-volt systems

Buzz and flicker free
While fluorescent fixtures can buzz and flicker, and may contribute to headaches and eye fatigue, the fixtures are constructed with LM80-rated LEDs and enable silent and flicker-free operation.

Utility Wrap LED 2' & 4'

LED Utility Wraps
LSU Series

maxLED by MaxLite

A cost effective LED Utility Wrap Fixture features a full length U Wrap Acrylic lens and a one-piece fabricated steel body. Designed to meet or exceed seven-10 footcandles at 8' installed heights for parking drive lane compliance, the fixtures are ideal for utility lighting in parking garages and stairwells, meeting applicable building and safety codes.

PROJECT NAME	
CATALOG NUMBER	
NOTES	
FIXTURE TYPE	ROOM SCHEDULE

FEATURES:

- Thermal/lumen balanced light engines
- Steel construction
- Back and end knockouts
- Class II driver, with 0-10V dimming option avail.
- Low power consumption
- Can be ceiling or wall mounted
- For covered use only – damp rated
- Wire guard available
- White finish standard
- CRI: >83
- Optional occupancy sensor available

48" Utility Wrap

24" Utility Wrap with wire guard

CONSTRUCTION:

- 20 Ga. steel body and end caps
- Clear acrylic prismatic lens
- Electrostatic paint pre-assembly
- Universal voltage (120-277V)

Thermal/ lumen balanced light engines – MaxLite engineered low drive rates allow cooler operating temperatures, which allows for less thermal heat sinking needed, and more, cooler and better performing LEDs that produce a higher lumen output.

ORDERING EXAMPLE: LSU4806U35DV41

CLASS	TYPE	LENGTH	WIDTH	APPLICATION	VOLTAGE	NOMINAL WATTAGE	DIMMING	CCT	OPTIONS
LS = Linear Utility	**U** = U Wrap	**48** = 48" **24** = 24"	**06** = 6.75"	**S** = Surface Mount	**U** = Universal 120-277V	**20** = 20W* **28** = 28W **35** = 35W **45** = 45W**	**BLANK** = Non-dimming **DV** = 0-10V Dimming	**41** = 4100K **50** = 5000K	**W** = Wire Guard **MS** = Motion Sensor

MAX13114

*20W not available in 48" length
**35W & 45W not available in 24" length
***MS occupancy sensor requires DV 0-10v dimming

LED Utility Wraps
LSU Series

maxLED by MaxLite

SPECIFICATIONS:

ITEM	SPECIFICATION	DETAILS - 24"		DETAILS - 48"		
GENERAL PERFOMANCE	Spacing Criteria	Available upon request		Available upon request		
	Color Temperature (CCT)	4100K, 5000K		4100K, 5000K		
	Wattage	20W	28W	28W	35W	45W
	Delivered Lumens	1700-1850	2340-3220	2340-2575	2975-3220	3500-3800
	Efficacy (LM/W)	89	87	87	88	81
	Color Consistency	Proprietary binning for uniform color		Proprietary binning for uniform color		
	Lumen Maintenance (L70)	50,000 hours		50,000 hours		
ELECTRICAL	Power Factor	Over 0.90		Over 0.90		
	Maximum THD	<20%		<20%		
	Input Voltage	Per specification		Per specification		
	Power Consumption	Per specification		Per specification		
PHYSICAL	Dimensions (W x L x H)	24" x 6.75" x 2.75"		48" x 6.75 x 2.75"		
	Weight	4 lbs.		6 lbs.		
	Housing	Steel		Steel		
	Lens	Acrylic prismatic		Acrylic prismatic		
	Mounting	Ceiling surface mount or wall mounted		Ceiling surface mount or wall mounted		
	Operating Temperature	-30°F to 130°F		-30°F to 130°F		
CERTIFICATION	Certification	UL, FCC, LM79, LM80		UL FCC, LM79, LM80		
	Material Usage	RoHS compliant no mercury		RoHS compliant no mercury		
	Environment	Indoor / outdoor covered – damp		Indoor / outdoor covered – damp		
	LED Class	L70 rated to 50,000 hours		L70 rated to 50,000 hours		
	Warranty	5 tear		5 year		

Lighting layouts and spacing criteria available upon request

*When used in combination with occupancy controls
Designed for sustainability; contact Maxlite for any repair or replacement components needed.

Utility Wrap LED Applications

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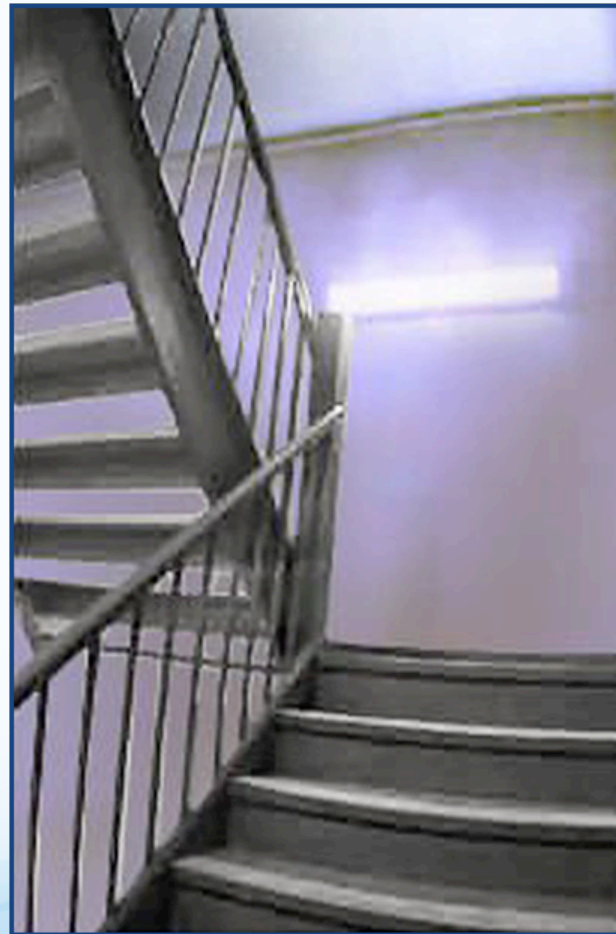
Utility Wrap LED 2' & 4'
Features & Benefits

One-piece steel housing
Constructed with a white-finished, heavy gauge one-piece steel housing

Full length diffuser
Full length U-Wrap prismatic acrylic diffusers for even light

Parking drive lane and stairwell compliance
Deliver 10 to 20 footcandles from eight-foot ceilings for parking drive lane and stairwell compliance

Thermal and lumen balanced light engines
Engineered with low LED low-forward voltage drive rates that enable cooler operating temperatures resulting in less thermal heat sinks, more LEDs performing better, increased lumen output and a more efficient operation

Damp-rated
Damp-rated for covered environments

Mount to surfaces or ceilings
Surface- or ceiling-mounted to walls and ceilings for application variability

Color uniformity and even light distribution
Constructed with LED chips with high-ranked binning that ensures color uniformity and produces accurate color rendering, even light distribution and minimal glare

50,000 hour life
50,000-hour life, or more than 17 years operating 8 hours a day, is based on L70 standards (at 70 degrees F based on LM-80 data). When the LEDs reach 30 percent lumen depreciation, end-of-life is reached. This life cycle far exceeds halogen and CFL, and is almost double the life of linear fluorescents.

Universal voltage operation
Operates on 120- to 277-volt systems

Buzz and flicker free
While fluorescent fixtures can buzz and flicker, and may contribute to headaches and eye fatigue, the LED Utility Wrap is constructed with LM-80-rated LEDs and enable silent and flicker-free operation.

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Vapor Tight Accessories

OCCUPANCY SENSOR CONTROLS

Occupancy sensors detect indoor activity within a certain area. They provide convenience by turning lights on automatically when someone enters a room, and save energy by turning lights off soon after the last occupant has left the room. Occupancy sensors must be located where they will detect occupants or occupant activity in all parts of the room or area.
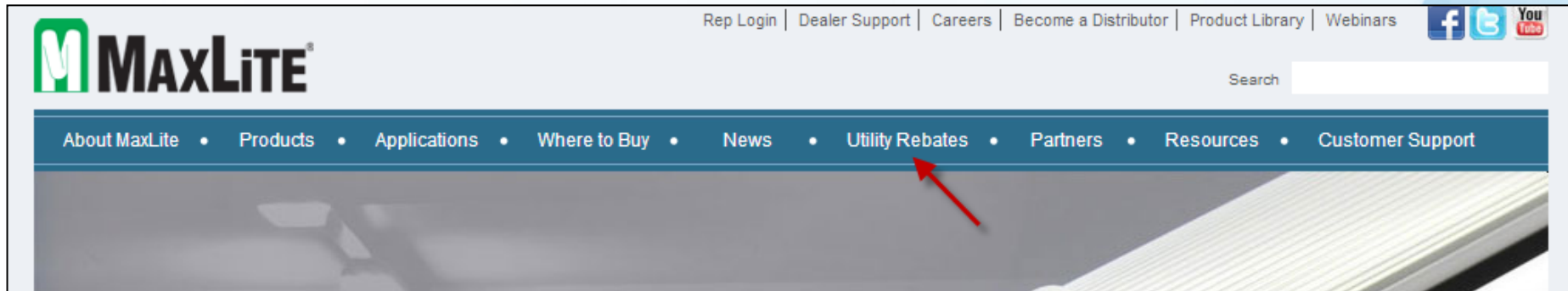
Utility Wrap Accessories

Occupancy Sensor

Utility Wrap Wire Guard

MaxLite Utility Rebate Finder

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Visit: http://www.maxlite.com/utility-rebate-programs

MaxLite Webinars

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- **To browse previous MaxLite Webinars, visit: http://www.maxlite.com/webinar**

- **Check/Subscribe to our YouTube channel**

Class Is In Session! 24/7

- **Visit the MaxLite Lighting & Technology University at: http://university.maxlite.com to learn about all of MaxLite's products and gain access to many other lighting resources!**

QUESTIONS/ANSWERS

Thank you everyone for your attention! Please feel free to use this opportunity to ask any questions you may have about MaxLite or the products shown in this presentation.

FOR MORE INFORMATION ABOUT OTHER MAXLITE PRODUCTS, OR FOR LIGHTING QUESTIONS IN GENERAL; PLEASE CONTACT:

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