

WELCOME

LED OUTDOOR LIGHTING OPTIONS

3/26/15 Webinar

Presented by: Bill Fenimore







WEBINAR TOPICS:



MAXLITE PRESENTS: LED OUTDOOR LIGHTING OPTIONS

Topics:

- Why LED?
- **Outdoor Fixtures Introduction**
- MaxLite's LED Large Adjustable Wall Pack
- **MaxLite's LED Small Adjustable Wall Pack**
- **LED VaporProof Jelly Jar Fixtures**
- **MaxLite Services**
- Q&A

MAXLITE PRESENTS: LED OUTDOOR LIGHTING OPTIONS

Adjustable, installation-friendly LED Wall Packs offer significant energy savings over metal halide fixtures and are perfect for lighting outdoor walkways, landscapes, parking areas, schools, hospitals, hotels, offices and other commercial spaces. Additionally, we will discuss the new LED VaporProof Jelly Jar fixtures which are designed to replace incandescent and CFL fixtures with high-quality, long-lasting LED illumination.



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Thurs, March 26 at 12pm EST To register click the "REGISTER NOW" button below

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WHY LED?





INTRODUCTION:



MAXLITE'S LINE OF OUTDOOR LED FIXTURES

MaxLite has an extensive line of outdoor LED fixtures, today we will focus on some of the features/benefits of the LED Adjustable Wall Packs and LED Jelly Jars.











OVERVIEW:



LED ADJUSTABLE WALL PACKS

LED Adjustable Wall Packs



Overview:

Adjustable, installation-friendly LED Wall Packs are constructed with pivoting heads that aim light precisely, with chip-on-board LEDs to minimize glare and backlight. The durable, energy-saving fixtures are perfect for lighting outdoor walkways, landscapes, parking areas, schools, hospitals, hotels, offices and other commercial spaces.

Validations & Accolades:







- Small (SAW) Adjustable Wall Packs - 13W, 26W
- Large (LAW) Adjustable Wall Packs - 74W
- **Designed with sleek heat-sinking** fins that extend the L70 to 120,000 hours.
- **Efficacy for both fixture sizes** exceeds 80 lm/W, translating to 75% energy savings over HID.
- **Voltage-specific photo controls**

LED ADJUSTABLE WALL PACKS:





- Pivoting heads aim light precisely, minimizing glare and backlight
- Quick and easy to install mounting hinges allow body to hang during wiring
- Optional photo controls power fixture on and off according to ambient light levels
- Minimal footprint works with any building design
- Exceptional long life: 120,000-hour expected L70 life, using TM-21 standards @25C



Simply LED... Simply MaxLED

www.maxlite.com



LARGE ADJUSTABLE WALL PACK:



LED LARGE ADJUSTABLE WALL PACK





LARGE ADJUSTABLE WALL PACK

LAW74 SERIES

Page: 2 of 2

SP	ECI	FICAT	TIONS	8:
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PECIFICATIONS	ii s	LAW74U50BSS	LAW74U50BPC12BSS	LAW74U50BPC27BS		
ITEM	SPECIFICATION		DETAILS			
	Lumens Delivered (lm)	6230				
	Efficacy (Im/W)	85				
GENERAL PERFORMANCE	Lumens Delivered (im) Efficacy (m/W) CCT Lumen Maintenance (1.70) Color Rendering Index (CRI) Input Power (W) Power Factor Input Voltage (V) Surge Sopression Lens Housing Mounting Operating Temperature Weight Certification Environment		5000K			
			>120,000 hours			
	Color Rendering Index (CRI)		70			
	Input Power (W)	74				
ELECTRICAL	Power Factor	> 0.9				
	Input Voltage (V)	120-277, 50/60Hz	100-120V, 50/60Hz	208-277V, 50/60Hz		
	Surge Supression	10kA				
	Lens	Sealed borosilicate glass lens				
	Housing	Aluminum				
PHYSICAL	Mounting	Gasketed back plate ca	an be mounted to recessed outlet	box or direct to surface		
	Operating Temperature		-30°F-104°F			
	Weight		9.80 lbs			
	Certification	RoHS, e	ETLus, FCC, LM-79, LM-80, TM-	21, DLC		
ADDITION	Environment		IP66			
AFFLICATION	Humidity		20% - 85% RH, non condensing			
	Warranty		5 Years			

ORDERING*:

ORDER	MODEL	OPTIONS	EFFICACY (lm/w)	OUTPUT (LUMENS)	NOMINAL POWER (WATTS)	ССТ	FINISH
74522	LAW74U50BSS	None		V			
74125	LAW74U50PC12BSS	120V Photocontrol	85 6230	85 6230 74	74	5000K	Bronze
74126	LAW74U50PC27BSS	277V Photocontrol					

^{*}Please contact your MaxLite representative to order products that don't have order codes listed here

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CASE STUDY:



CASE STUDY: YMCA

YMCA of Edwardsville, IL Upgrades Facility Lighting with MaxLite LED Fixtures and Lamps





Our members and guests have certainly noticed the improved lighting in our three facilities and appreciate it.

The energy and maintenance savings of switching to LED lighting in our facilities is significant and will have a very positive impact on our operational budget for many vears to come."

Gary Niebur, president/CEO of the Edwardsville, YMCA

More than 600 18-watt LED T8 lamps, 14-watt recessed downlight retrofits and 10- to 16-watt omnidirectional A-lamps

throughout the facility. (Scott Evers Photography)

were used to replace fluorescent and metal halide bulbs

160-watt LED BayMAX Pendant Highbays replaced 400-watt metal halide fixtures in the main pool area. (Scott Evers Photography)

After completing a successful lighting upgrade at its sister property, the Meyer Center, MaxLite and Cool City Lights were called upon to retrofit the YMCA of Edwardsville, Illinois ESIC Center and Early Childhood Development Center with energy-efficient LED lamps and luminaires.

The 45,000-square-foot ESIC Center was built in 1960 and since then, there have been several additions and renovations to the facility, which provides a wide range of

activities for tens of thousands of youth, teens, adults and families to participate in each year. Recognizing the important role lighting plays in providing a safe and comfortable environment for its members, and realizing the cost-saving benefits of LED technology at the nearby Meyer Center, management decided to replace the ESIC Center's inefficient fluorescent, incandescent and metal halide fixtures with energy- and maintenance-saving

Working with MaxLite, Cool City Lights of Glen Carbon, Illinois, developed a retrofit plan that would minimize the costs of new fixtures and maximize the ROI for the non-profit facility. A full range of MaxLite LED lamps and luminaires were chosen for the project based on lumen output, reliability, energy savings and overall costeffectiveness. The products installed at the ESIC Center included T8 lamps, downlight retrofits, Vapor Tight linear fixtures, BayMAX Linear and Pendant Highbays, omnidirectional A-lamps, and exit signs.

By switching to LED, the ESIC Center will save more than 200,000 kWh and \$33,000 in energy and maintenance costs annually.





160-watt LED BayMAX Linear Highbays replaced 400-watt metal halide fixtures in the aymnasium. (Scott Evers Photography)



50-watt LED Vapor Tight linear fixtures, specifically engineered for use in high-moisture areas, were installed in one of the facility's two pool areas. (Scott Evers Photography)



a complete lighting upgrade inside and out. (Scott Evers Photography)

The YMCA Early Childhood Development Center, a full day daycare for children from infancy to six years old in Glen Carbon, also received a lighting upgrade inside and out. MaxLite's T8 lamps were used to convert more than 100 fixtures in the daycare interior from fluorescent to LED light sources, while four ECO-T LED Recessed Troffers were added to the ceilings. The

vellow-hued high pressure sodium wall packs on the exterior of the facility were replaced with LED Large Adjustable Wall Packs to give the center a more inviting presence, while the metal halide fixtures at the building's three entrances were exchanged with LED Canopy Fixtures.



"The ESIC YMCA LED installation went very smoothly. The new LED fixtures greatly updated this older facility. The quality of MaxLite's LEDs will enhance the ESIC YMCA and save energy for years to come.

"The Meyer Center is already saving an average of \$6,500 in energy costs monthly, and we expect the ESIC Center upgrade to not only improve lighting, but reduce electrical costs by more than 40 percent."

- Richard Tallerico, president of Cool City Lights

MaxLite has been committed to providing energy efficient lighting products for more than 20 years, and was one of the first movers into LED technology in the industry. An ENERGY STAR® Partner of the Year, MaxLite established the MaxLED® The Early Childhood Development Center in Glen Carbon also received brand, an extensive line of indoor and outdoor lighting fixtures featuring innovative LED luminaires and lamps using the latest state-of-the-art LED technology.

MAXLITE

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INSTALLATION VIDEO:



LED LARGE ADJUSTABLE WALL PACK INSTALLATION VIDEO



MaxLite® LED LARGE ADJUSTABLE WALL PACK

General Safety Information

1 To redoor the risk of death, personal riyer or properly damage from five, electric shock, faling parts, cusivalessors, and offer hazards read at wavening and instructions include with and on the faline bose and all swamings and instructions include with and on the faline bose and all standards read at the sequences. (With these general productions.

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An installation video for the LED Large Adjustable Wall Packs is available at:

- MaxLite's YouTube Channel: http://youtube.com/maxlitenewsroom
- Or directly at: https://youtu.be/rqNBeKlRgl

Operating instructions with wiring diagrams are also available right in the product page's data sheets, specs and downloads section.



SMALL ADJUSTABLE WALL PACK:



LED SMALL ADJUSTABLE WALL PACK





SMALL ADJUSTABLE WALL PACK

SAW SERIES

Page: 2 of 2

PECIFICATIO	INS:	SAW13U50B	SAW13U508PC12	SAW13U508PC27	SAW26U50B	SAW26US08PC12	SAW26US0BPC	
ITEM	SPECIFICATION			DETA	JLS			
	Lumens Delivered (Im)	1165 2345			2345			
	Efficacy (Im/W)		82			81		
GENERAL PERFORMANCE	CCT			500	0K			
	Lumen Maintenance (L70)			>120,000	>120,000 hours			
	Color Rendering Index (CRI)	RI) 70						
	Input Power (W)	14 29			29			
	Power Factor	> 0.9						
ELECTRICAL	Input Voltage (V)	100-277V, 50/60Hz	100-120V, 50/60Hz	208-277V, 50/60Hz	100-277V, 50/60Hz	100-120V, 50/60Hz	208-277V, 50/60Hz	
	Lens			Sealed borosilio	ate glass lens	the second	1	
	Housing	Aluminum						
PHYSICAL	Mounting	Gasketed back plate can be mounted to recessed outlet box or direct to surface						
PHISICAL	Operating Temperature			-30°F-	104°F			
	Environment			IP6	6			
APPLICATION	Humidity			20% - 85% RH, r	on condensing			
	Warranty			: 5 Vo	aro			

ORDERING*:

ORDER	MODEL	OPTIONS	EFFICACY (Im/w)	OUTPUT (LUMENS)	NOMINAL POWER (WATTS)	сст	FINISH		
74121	SAW13U50B	None	82						
74122	SAW13U50PC12B	120V Photocontrol		82	1165	13			
74123	SAW13U50PC27B	277V Photocontrol		2250000	30.00	5000K	Bronze		
74127	SAW26U50B	None	81 2345						
74165	SAW26U50PC12B	120V Photocontrol		81	81		26		
74128	SAW26U50PC27B	277V Photocontrol		324-00	13000				

^{*}Please contact your MaxLite representative to order products that don't have order codes listed here.

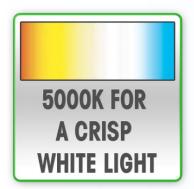
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SMALL ADJUSTABLE WALL PACK:



LED SMALL ADJUSTABLE WALL PACK







INSTALLATION VIDEO:



LED SMALL ADJUSTABLE WALL PACK INSTALLATION VIDEO



MaxLite® LED SMALL ADJUSTABLE WALL PACK

Ceneral Safety Information

- To reduce the rate of death, personal rapy or grouping damage floor fine, electric shock, falling parts, chalchestern, and other hazards read all wavelings and relations included with and on the facture because and all floored wavelings are instructions, even during the resultance of the factor was and all floored electric shock, falling parts, chalchestern, and other hazards read all wavelings and relations or programs and on the factor was during the electric parts.

- Commonité restations, servicing, or performing rustime materiances upon this ecopyrism. Inform the parts of the factor installation or materiances or the servicines, consult a qualified contract electrican and contraction.

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An installation video for the LED Large Adjustable Wall Packs is available at:

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- Or directly at: https://youtu.be/wz8uDDt8Eug

Operating instructions with wiring diagrams are also available right in the product page's data sheets, specs and downloads section.



JELLY JAR OVERVIEW:



LED JELLY JAR FIXTURES

LED VaporProof Jelly Jar



Validations & Accolades:



Overview:

LED Vaporproof Jelly Jars are designed to replace incandescent and CFL fixtures with high-quality, long-lasting illumination over doorways, scaffolding, construction sites, fire hydrants and emergency call stations. The lamps are IP66 rated against ingress of dust and pressurized water in harsh environments, and suitable for inverted mounting.

Constructed with a shortened polycarbonate lens that minimizes light loss, Jelly Jars may be mounted at heights lower than the short-lived fixtures they replace for easier maintenance.



- Designed to replace incandescent and CFL fixtures.
- High-quality, long-lasting illumination over doorways, scaffolding, construction sites, fire hydrants and emergency call stations.
- IP66 rated against ingress of dust and pressurized water in harsh environments, and suitable for inverted mounting.
- Constructed with a shortened polycarbonate lens that minimizes light loss.
- Easy maintenance, mounting at heights lower than the short-lived fixtures they replace.



VAPORPROOF JELLY JARS:



LED VAPORPROOF JELLY JARS



CATALOG NUMBER

NOTES:

Page: 1 of 3

LED VAPORPROOF JELLY JAR MLVP SERIES









Full Details of Line Drawings can be found on page 3.

PRODUCT DESCRIPTION:

FIXTURE SCHEDULE:

LED Vaporproof Jelly Jars are designed to replace 100-watt incandescent and 23-watt CFL fixtures with high-quality, longlasting illumination over doorways, scaffolding, construction sites, fire hydrants and emergency call stations. The lamps are IP66 rated against ingress of dust and pressurized water in harsh environments, and suitable for inverted mounting. They have an L70 lifetime of 50,000 hours.

Constructed with a shortened polycarbonate lens that minimizes light loss. Jelly Jars may be mounted at heights lower than the short-lived fixtures they replace for easier maintenance.

- . Efficacy exceeding 80 lm/W allows replacement of 100W incandescent or 23W CFL
- . Wide operating temperature of -30°F-104°F
- 70 CRI min
- · Universal 120-277V power supply
- Power Factor > 0.9: THD < 25%
- . Rated for 50,000-hour L70lifetime at TM-21 standards, 25°C

CONSTRUCTION:

- · Die-cast housing, durable powder coat finish
- · IP66 rated
- · Suitable for inverted mounting
- · Multiple conduit entries for easy wiring
- . Flat polycarbonate lens allows for lower mounting heights.

MODEL SELECTION (Full list of order codes on pg. 2)	Typical order example
Total Carlot	

MLVP		14	LED50	СР	
FAMILY	MOUNT	POWER, EQUIVALENCY	сст	LENS	
MLVP= Vaporproof Jelly Jar	W= Wall Mount C= Ceiling Mount	14= 14W, 100W INC equivalent	LED50= 5000K	CPm Clear Polycarbonate	

ACCESSORIES							
ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE				
74282	MLVPDLWG	14W LED Vaporproof Frosted Drop Lens and Die-Cast Wire Guard, Aluminum Finish	-				

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SPECIFICATIONS:

LED VAPORPROOF JELLY JAR

MLVP SERIES

Page: 2 of 3

PECIFICATION	13.	MLVPW14LED50CP	MLVPC14LED50CP		
ITEM	SPECIFICATION	DETAILS	DETAILS		
	Lumens Delivered (Im)	1,1	20		
	Efficacy (Im/W)	8.	3		
GENERAL PERFORMANCE	CCT	500	ОК		
	L70 lifetime hours, TM-21 @25°C	50,000			
	Color Rendering Index (CRI)	70			
ELECTRICAL	Input Power (W)	13.45			
	Power Factor	> 0.9			
	Input Voltage (V)	120-277, 50/60Hz			
	Weight (lbs)	2.95	2.60		
	Lens	Clear Polycarbonate			
PHYSICAL	Housing	Alum	num		
	Mounting	Gasketed back plate can be mounted to recessed outlet box or direct to surface			
	Operating Temperature	-30°F-	104°F		
	Certification	RoHS, cULus, FC	C, LM-79, LM-80		
	Environment	IP	6		
APPLICATION	Humidity	20% - 85% RH, r	non condensing		

ORDERING*:

ORDER CODE	MODEL	EFFICACY (lm/W)	OUTPUT (LUMENS)	NOMINAL POWER (WATTS)	ССТ	FINISH
74279	MLVPC14LED50CP		1,125		5000K	Aluminum
74278	MLVPW14LEDS0CP	83	1,125	14	DOWN	Aumoum

5 Years

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OVERVIEW:



LED JELLY JAR FIXTURES



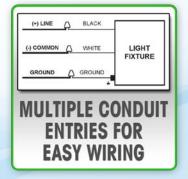
















INSTALLING THE JELLY JARS:



LED JELLY JAR FIXTURES (INSTALLATION VIDEO)



| MaxLite | 186.7mm | 138.7mm | 139.4mm | 14.337 | 103.0mm | 14.527 | 14.527 | 14.527 | 14.527 | 14.527 | 15.467 | 16.67 | 16.67 | 16.67 | 16.67 | 16.57 | 16.67 | 16.57 | 16.67 | 16.57 | 16.67 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.57 | 16.

Wall Mount LED Vaporproof Jelly Jar

Watch MaxLite's Jelly Jar installation video to see how both the wall mount and ceiling mount LED VaporProof Jelly Jars are installed.

- MaxLite's YouTube Channel: http://youtube.com/maxlitenewsroom
- Or directly at: https://youtu.be/wsfi6W08Ggc





MAXLITE UNIVERSITY:



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MAXLITE LIGHTING & TECHNOLOGY UNIVERSITY







The department function is to train and provide product training material for all MaxLite representatives, customers and employees. The goal of the department is to educate the staff and rep network to a full and complete understanding of our products, technologies, marketplace, and business environments. We endeavor to educate how and why lighting functions, repair and replacement, as well as compare to competitors or listing requirements. We will accomplish this by providing the tools and services proactively and as needed to supplement.

Click here to get started!



CUSTOM PRODUCT/TECH TRAINING:



Custom Product & Technology Training

Ask about our FREE custom webinar/training services!

- Lunch and Learn
- Breakfast and Learn
- Online via webinar
- Focus on a specific MaxLite product or a broad overview
- Focus on LED Technology or general lighting training
- Custom Presentations for your customers or staff

Email Bill Fenimore at bfenimore@maxlite.com for more info!





UTILITY REBATE SERVICES:



MAXLITE'S UTILITY REBATE SERVICES

MaxLite makes it easy to find and complete rebates for you and your customers!

- C&I Rebate Finder
- Utility Rebate Flyers
- Custom Rebate Calculator
- DLC / ENERGY STAR / LDL Product Listings
- Utility Rebate Paperwork Service

Email Joe Pater at jpater@maxlite.com for more info!



THANKS FOR ATTENDING!



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/topics discussed in this presentation.

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

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