



WELCOME

WHAT YOU NEED TO KNOW ABOUT ENERGY STAR®

11/26/13 Webinar
Presented by: Greg Murphy

TODAY'S TOPICS

- ENERGY STAR®
- The CSD List – Certified (Lighting) Subcomponent Database
- MaxLite & ENERGY STAR®



MAXLITE PRESENTS: WHAT YOU NEED TO KNOW ABOUT ENERGY STAR®

Join us and learn the importance of the ENERGY STAR® program and the influence the program has on the evolution of the MaxLite product line.



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Wednesday, November 26 at 12pm EST

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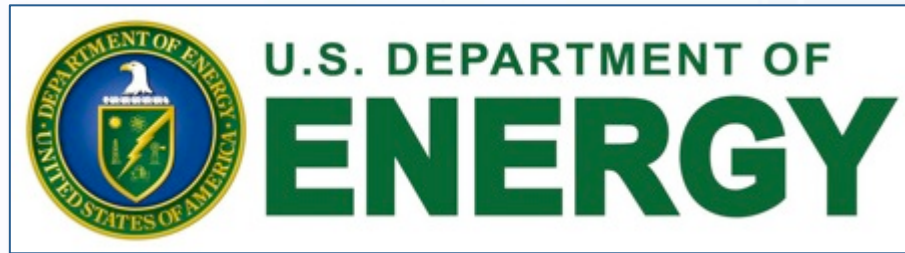
ENERGY STAR® HISTORY (PART 1)

- ENERGY STAR is a U.S. Environmental Protection Agency (EPA) voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. The ENERGY STAR program was established by EPA in 1992, and directs the Administrator to **"conduct a basic engineering research and technology program to develop, evaluate, and demonstrate non-regulatory strategies and technologies for reducing air pollution."**



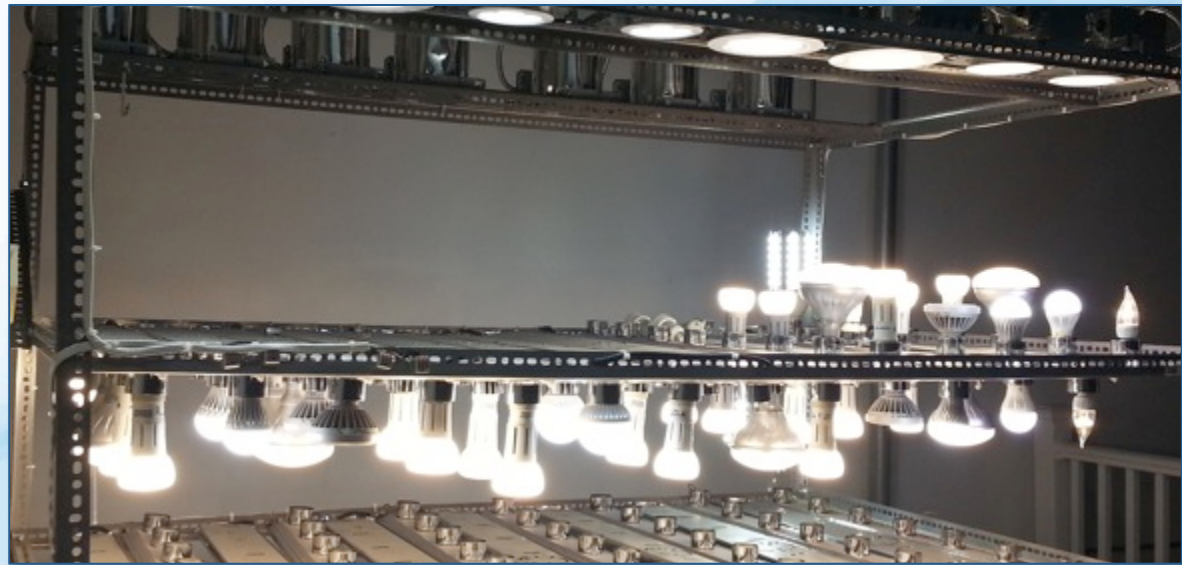
ENERGY STAR® HISTORY (PART 2)

- In 2005, Congress enacted the Energy Policy act and "established at the Department of Energy and the Environmental Protection Agency a voluntary program to identify and promote energy-efficient products and buildings in order to reduce energy consumption, improve energy security, and reduce pollution through voluntary labeling of or other forms of communication about products and buildings that meet the highest energy efficiency standards."



ENERGY STAR® INTEGRITY

- To maintain consumer trust and improve the oversight of ENERGY STAR certified products, homes, and commercial facilities, EPA has implemented third-party certification requirements and testing.
- **For Products:** In order to earn the label, ENERGY STAR products must be third-party certified based on testing in EPA-recognized laboratories. In addition to up-front testing, a percentage of all ENERGY STAR products are subject to "off-the-shelf" verification testing each year. The goal of this testing is to ensure that changes or variations in the manufacturing process do not undermine a product's qualification with ENERGY STAR requirements.



ENERGY STAR® PARTNERSHIP & MARKET IMPACT

- A broad range of **18,000 partners** across every sector of the economy drive the ENERGY STAR program's success from manufacturers and trade associations, to retailers and efficiency program providers, to home builders and small businesses. ENERGY STAR has grown to represent products in more than **65 different categories**, with more than **4.5 billion sold over the past 20 years**. EPA has evolved the ENERGY STAR program to serve as a national platform and a catalyst to deliver real energy efficiency by addressing market barriers.



THE CERTIFIED LIGHTING SUBCOMPONENT DATABASE (CSD)

- The Certified Subcomponent Database (CSD) supports qualification of ENERGY STAR Luminaires by providing certified performance data for lighting subcomponents
- **The use of the CSD is optional for luminaire manufacturers.** It is intended to streamline the qualification process; subcomponents are not required to be listed on the CSD to be employed in an ENERGY STAR qualified luminaire.
- The CSD is designed to contain certified performance data for: **lamps, ballasts, fluorescent lamp-ballast platforms, GU24 based self-ballasted compact fluorescent lamps and HID lamps, GU24 based LED lamps, and LED light engines.**
- The CSD is similar in purpose and function to the NEMA/ALA Lamp and Ballast Platform Matrix, but provides certified performance data required for qualification of ENERGY STAR luminaires. The CSD can streamline the process of luminaire qualification by providing manufacturers' makes, models and certified performance data of subcomponents. Depending on the type of luminaire, the subcomponents listed here may or may not meet the applicable requirements. In most instances, this approach to luminaire qualification significantly reduces the luminaire manufacturer's testing burden, such that only limited additional testing is needed at the luminaire level (e.g., in situ temperature measurements and electrical safety testing).
- LED arrays/modules, LED drivers and LED power supplies will not be individually listed in the database, as no industry standard methods of measurement currently exist for measuring the performance of LED drivers.

LISTING SUBCOMPONENTS ON THE CSD: PROCESS

Performance for subcomponents listed on the CSD has been certified to meet relevant requirements for use in ENERGY STAR qualified luminaires.

Subcomponents in this database **are not ENERGY STAR qualified** as a result of being listed. Subcomponents only certified for purposes of the CSD:

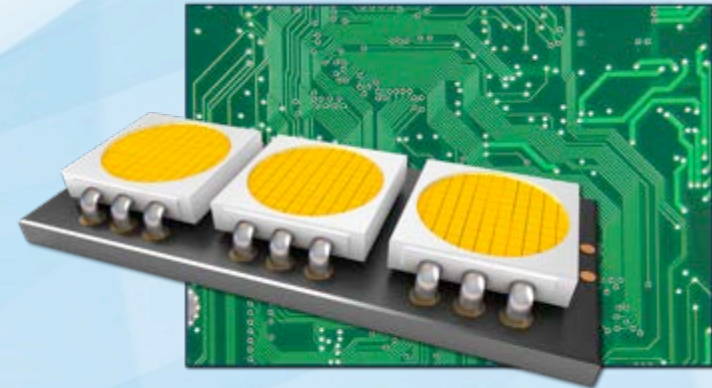
- May not carry any of the Program's certification or promotional marks on the products, on product packaging, or in associated literature either printed or electronic.
- May not be referred to as ENERGY STAR qualified, certified, rated, or approved.

Note: GU24-based integrated lamps that are ENERGY STAR qualified may appear on both the CSD and the lamps qualified product list.







CSD: CERTIFICATION BODIES

- CBs should submit certified product performance data to EPA for listing on the CSD
- CBs must review subcomponent data from the CSD when reviewing a luminaire for certification to determine that it meets the requirements for the specific type of luminaire to be certified.
- **Lifetime Testing:** The luminaires specification allows for initial (conditional) qualification of luminaires based on completion of minimum lamp lifetime testing requirements. This provision requires that full lamp lifetime testing be completed, and requirements met, for full qualification. In all instances where, subsequent to an initial CSD listing of a lamp or an initial luminaire qualification, a certification body (CB) receives lifetime testing results indicating that the product fails to meet rated lifetime (as indicated on product packaging), the CB is required within 2 business days to report this information as a subcomponent (lamp) or luminaire testing failure to enforcement@energystar.gov.
- In order to list a subcomponent on the CSD, the CB shall ensure that all subcomponents listed in the database have met the following luminaire requirements for the specific subcomponent, where applicable:
 - Transient protection testing;
 - Electrical safety as tested by an OSHA NRTL;
 - Electromagnetic and radio frequency interference;
 - Lighting toxics reduction;
 - Labeling language for mercury content; and
 - Warranty



ENERGY STAR VS. CSD

	 ENERGY STAR Qualified	 EPA Certified for use in ENERGY STAR Qualified Luminaires (CSD)	Notes
Typical Products Included	Screw-base CFLs, LED lamps	GU24 CFLs, GU24 LED Lamps, LED Light Engines	GU24 Lamps on CSD can also be simultaneously Qualified. Screw Base Qualified Lamps can NOT be CSD, LED Light Engines can NOT be Qualified
Specifications that must be met	ENERGY STAR Lamps (current version is ENERGY STAR Lamps V1.0, released 8/28/13, effective 9/30/14 but now available for early certification)	ENERGY STAR Luminaires (current version is ENERGY STAR Luminaires V1.2, released 11/30/12)	Qualified lamps appear on the Qualified Products List (QPL) EPA Certified lamps/engines appear on the Certified Subcomponent Database (CSD)
Target Market	Retail, Consumer	Lighting Fixture Manufacturers intending to sell ENERGY STAR Qualified luminaires	CSD lamps are typically shipped with the light fixtures
Product shows ENERGY STAR Mark	Yes	No	
Lifetime requirement	<u>CFL</u> : None. Lamp shall maintain ≥ 90% of initial lumen output at 1000-hours; and ≥ 80% of initial lumen output at 40% of rated life <u>LED</u> : 15,000hrs min.	<u>CFL</u> : 10K hrs min. <u>LED</u> : 25K hrs (resi indoor), 35K hrs (resi outdoor and commercial grade) min.	

	 ENERGY STAR Qualified	 EPA Certified for use in ENERGY STAR Qualified Luminaires (CSD)	Notes																				
Warranty	<15,000hrs life = 2yrs ≥15,000hrs life = 3yrs	3 yrs																					
Min. Efficacy	Omnidirectional: <15W 55lpw, for ≥15W 65lpw	65lpw																					
Light Output	<table border="1"> <thead> <tr> <th>Rated Wattage of the Referenced Incandescent Lamp (watts)</th> <th>Light Output (lumens)</th> </tr> </thead> <tbody> <tr><td>25</td><td>250-449</td></tr> <tr><td>40</td><td>450-799</td></tr> <tr><td>60</td><td>800-1,099</td></tr> <tr><td>75</td><td>1,100-1,599</td></tr> <tr><td>100</td><td>1,600-1,999</td></tr> <tr><td>125</td><td>2,000-2,549</td></tr> <tr><td>150</td><td>2,550-3,000</td></tr> <tr><td>200</td><td>3,100-3,999</td></tr> <tr><td>300</td><td>4,500-6,000</td></tr> </tbody> </table>	Rated Wattage of the Referenced Incandescent Lamp (watts)	Light Output (lumens)	25	250-449	40	450-799	60	800-1,099	75	1,100-1,599	100	1,600-1,999	125	2,000-2,549	150	2,550-3,000	200	3,100-3,999	300	4,500-6,000	800 lumens minimum (some exceptions apply to multi-head and decorative chandelier and pendant products)	
Rated Wattage of the Referenced Incandescent Lamp (watts)	Light Output (lumens)																						
25	250-449																						
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200	3,100-3,999																						
300	4,500-6,000																						
Photometric Performance Testing Required	LM-79 (output at room temperature)	LM-82 (output as a function of temperature)																					

MAXLITE & ENERGY STAR

- MaxLite was the first CSD-Listed GU24 LED enclosed-rated LED lamp.

In late 2014, MaxLite will introduce the LED Puck Lamp, which is being third-party certified for the Certified Subcomponent Database for use in ENERGY STAR luminaires. This lamp is the industry's first enclosed-rated CSD listed lamp and, as such, greatly expands the types of fixtures in which manufacturers can use replaceable GU24 lamps to certify luminaires. Prior to this lamp introduction, there was no LED lamp available on the CSD that could be used in fully enclosed luminaires. Now, manufacturers of products such as coach lanterns, closet lights, ceiling fixtures, and other enclosed decorative fixture types can easily certify their luminaires with this LED light source. The LED Puck Lamp is not only listed for use in enclosed fixtures, it is also damp location listed. It emits 800 lumens and is equivalent to light from a 60W incandescent lamp.

PROJECT NAME: _____ CATALOG NUMBER: _____

NOTES: _____ FIXTURE SCHEDULE: _____

Page: 1 of 2

LED PUCK LAMP
LEPM SERIES

E26

GU24

PRODUCT DESCRIPTION:
MaxLite's LED Puck Lamp is a leading edge energy efficient light source suitable for use in a wide variety of luminaires.

The puck lamp was designed with a proprietary heatsink which minimizes thermal levels allowing this light source to be used in totally enclosed luminaires.

The puck lamp is fully dimmable and emits light equivalent to a 60W incandescent lamp.

FEATURES:

- UL Listed for damp locations and totally enclosed luminaires
- Very compact design allows fit into shallow fixture housings
- Fits into same fixtures where Squat CFLs are used, allows cooler and longer-lasting fixture life
- 140 degree beam angle is ideal for general lighting applications
- Light output equivalent to a 60W A lamp

CONSTRUCTION:

- Die cast Aluminum heatsink

LUMINAIRE ORDERING INFORMATION:

ORDER CODE	WATTS (NOMINAL)	MODEL	DELIVERED LUMENS	LIFE (L ₇₀)	DIMENSIONS (D" X H")	CCT
74132	9	LEPM3A0927	800	25,000	3" x 2.75"	2700K
74135	9	LEPM3A0927GU	800	25,000	3" x 2.90"	2700K
74133	9	LEPM3A0930	850	25,000	3" x 2.75"	3000K
74134	9	LEPM3A0930GU	850	25,000	3" x 2.90"	3000K

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MAX14148 Revised: 10-21-14

MAXLITE & ENERGY STAR

- MaxLite one of the industry's first Certified 100W LED Omni Lamps.

In August 2014, MaxLite introduced an award-winning **17W LED Omni lamp that is both Certified and on CSD**. This lamp is one of the industry's first to emit over 1600 lumens of omnidirectional light and is equivalent to light from a 100W incandescent lamp. Winning a 2014 Lighting for Tomorrow award in the replacement lamp category, judges for this award remarked this lamp “provides good light output at an excellent price point.” Being both Certified and CSD-listed, the lamp is available as a great product both for consumers and for manufacturers, who may use it to certify expanded families of Certified Luminaires. The 100W equivalency opens up the ability to use Certified products in hospitality and more commercial applications where higher lumen packages are needed.

- MaxLite one of the industry's first and only CSD-Listed GU24 LED BR Lamp.

In 2014, MaxLite introduced the industry's first and only CSD-listed GU24 LED BR30 lamp. Developed to help manufacturers develop Certified downlight luminaires, MaxLite's **SKRR3009GUDLED27** is a GU24 LED 9W BR30 lamp that emits over 600 lumens and only consumes 9W of power. The size and distribution makes it ideal to help manufacturers create Certified downlight luminaires.



maxLED
by
MaxLite

PROJECT NAME: _____ CATALOG NUMBER: _____
NOTES: _____
FIGURE SCHEDULE: _____ Page 1 of 1

LED OMNIDIRECTIONAL A-LAMP
ALS-A17-0100

PRODUCT DESCRIPTION:
This is a variable (DIMMABLE) E17 omnidirectional LED omnidirectional lamp. It is a replacement for the 100W incandescent lamp. This product is made of high quality materials and is designed for long life. The lamp is made of high quality materials and is designed for long life. The lamp is made of high quality materials and is designed for long life.

FEATURES:

- 100W equivalent (17W)
- Dimmable down to 10 percent
- Guaranteed 50,000 hours of average life
- Power factor > 0.9
- Standard E17 base & E17 socket
- Five year limited warranty

APPLICATIONS:

- Residential
- Commercial
- Hospitality
- Retail
- Industrial
- Healthcare
- Education
- Hospitality
- Retail
- Industrial
- Healthcare
- Education

MODEL	BASE	DIMMABLE	WATTAGE	WATTAGE	WATTAGE
Model: ALS-A17-0100	Dimmable: Yes	Base: E17	Wattage: 17W	Wattage: 100W	Wattage: 100W

COMPATIBLE DIMMERS:

MODEL	BASE	WATTAGE
Model: ALS-A17-0100	Dimmable: Yes	Wattage: 17W

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LED R30 GU24

PROJECT NAME: _____
CATALOG NUMBER: _____
NOTES: _____
FIGURE SCHEDULE: _____

FEATURES:

- 9W LED
- CSD-Listed
- High light output (600 lumens)
- Five year limited warranty

COMPATIBLE DIMMERS:

MODEL	BASE	WATTAGE
Model: SKRR3009GUDLED27	Dimmable: Yes	Wattage: 9W

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MAXLITE & ENERGY STAR

- MaxLite has the most CSD-listed LED products.**

MaxLite has shown a strong commitment to the ENERGY STAR program by continuing to develop the most LED light sources that are certified for the CSD database. **With 16 GU24 lamps, and 6 LED Light Engines on the CSD,** MaxLite has the most light sources available to ease manufacturers' processes when trying to develop Certified LED luminaires. Additionally, MaxLite maintains one of the largest offerings of GU24 CFLs in the market.

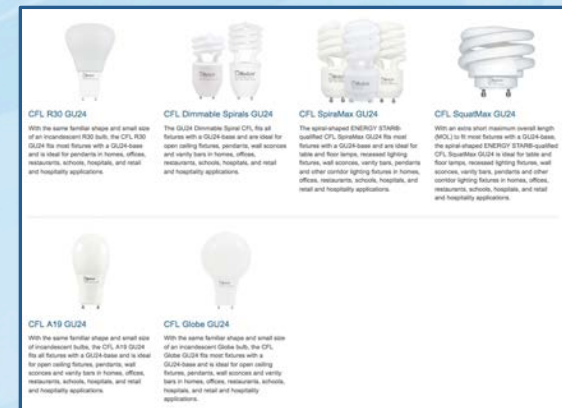
Certified Lighting Subcomponents - Light Engines and GU24 Based LED Lamps
Last Updated November 24, 2014

Lamp or Light Engine Manufacturer	Lamp or Light Engine Brand Name	Lamp or Light Engine Model Name
MaxLite	MaxLED	10A19GU0LED27
MaxLite	MaxLED	10A19GU0LED30
MaxLite	MaxLED	12A19GU0LED27
MaxLite	MaxLED	12A19GU0LED30
MaxLite	MaxLED	17A21GU0LED27
MaxLite	MaxLED	17A21GU0LED30
MaxLite	MaxLED	7A19GU0LED27
MaxLite	MaxLED	7A19GU0LED30
MaxLite	MaxLED	SKB007GU0LED27
MaxLite	MaxLED	SKB007GU0LED30
MaxLite	MaxLED	SKB007GU0LED30
MaxLite	MaxLED	SKB007GU0LED41
MaxLite	MaxLED	SKB010GU0LED30
MaxLite	MaxLED	SKRR3009GU0LED27
MaxLite	MaxLite	RR1530W
MaxLite	MaxLite	RR1540W
MaxLite	MaxLite	RR2630
MaxLite	MaxLite	RR2640
MaxLite	MaxLite	RR3430
MaxLite	MaxLite	RR3440
MaxLite	MaxLite	SKB010GU0LED27
MaxLite	MaxLite	SKB010GU0LED41



- MaxLite Expanded GU24 CFL offerings.**

MaxLite added four new GU24 CFL options in 3000K to the CSD to support fixture manufacturers selling Certified products in retail channels. In 2014, MaxLite added 3000K CCT options to the CSD in 13W, 18W, 23W and 27W.



MAXLITE & ENERGY STAR

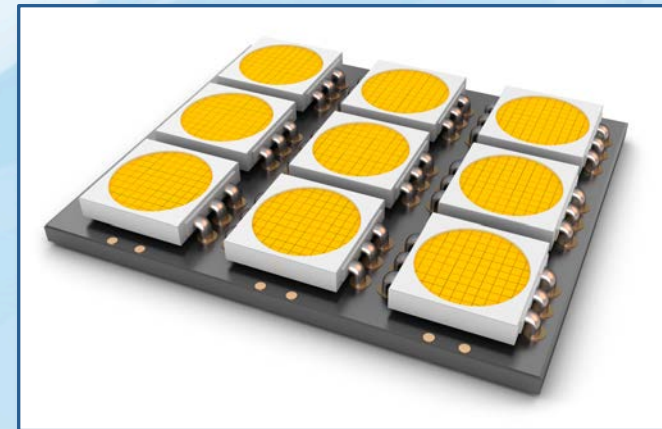
- MaxLite has the industry's first Certified LED torchiere.**

In November 2014, MaxLite introduced the industry's first Certified LED torchiere to the market. The product was shown for the first time at the 2014 ENERGY STAR Partner Meeting in Phoenix, AZ. Packaged with MaxLite's award-winning ENERGY STAR-qualified A19 LED Omnidirectional Lamp (12W), the GU24-socketed torchiere offers a long LED life and architectural-grade construction in one reasonably priced box for the residential and hospitality markets.



- MaxLite's Participation in product spec development efforts.**

MaxLite continued to assist the Environmental Protection Agency (EPA) in product spec development efforts in a number of ways. This included providing EPA with a "Proposal for AC LED Modules without heat sinks" procedure for inclusion of new AC LED Modules in Luminaire Certification efforts. Additionally, MaxLite attended and participated in the working session during the 2014 ENERGY STAR Partner Meeting in helping to develop Luminaires version 2.0 specifications.



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MAXLITE LIGHTING & TECHNOLOGY UNIVERSITY



**Product Training
Modules**



**Earn Your
Lighting Degree**



**Other Lighting &
Technology Resources**

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.

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- Breakfast and Learn
- Online via webinar
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- Focus on LED Technology or general lighting training
- Custom Presentations for your customers or staff



Email Greg Murphy at gmurphy@maxlite.com for more info!

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

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- Custom Rebate Calculator
- DLC / ENERGY STAR / LDL Product Listings
- Utility Rebate Paperwork Service



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

Special thanks to Premier Lighting for their contribution to this presentation.

For your lighting needs: <http://www.premierltg.com>

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

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