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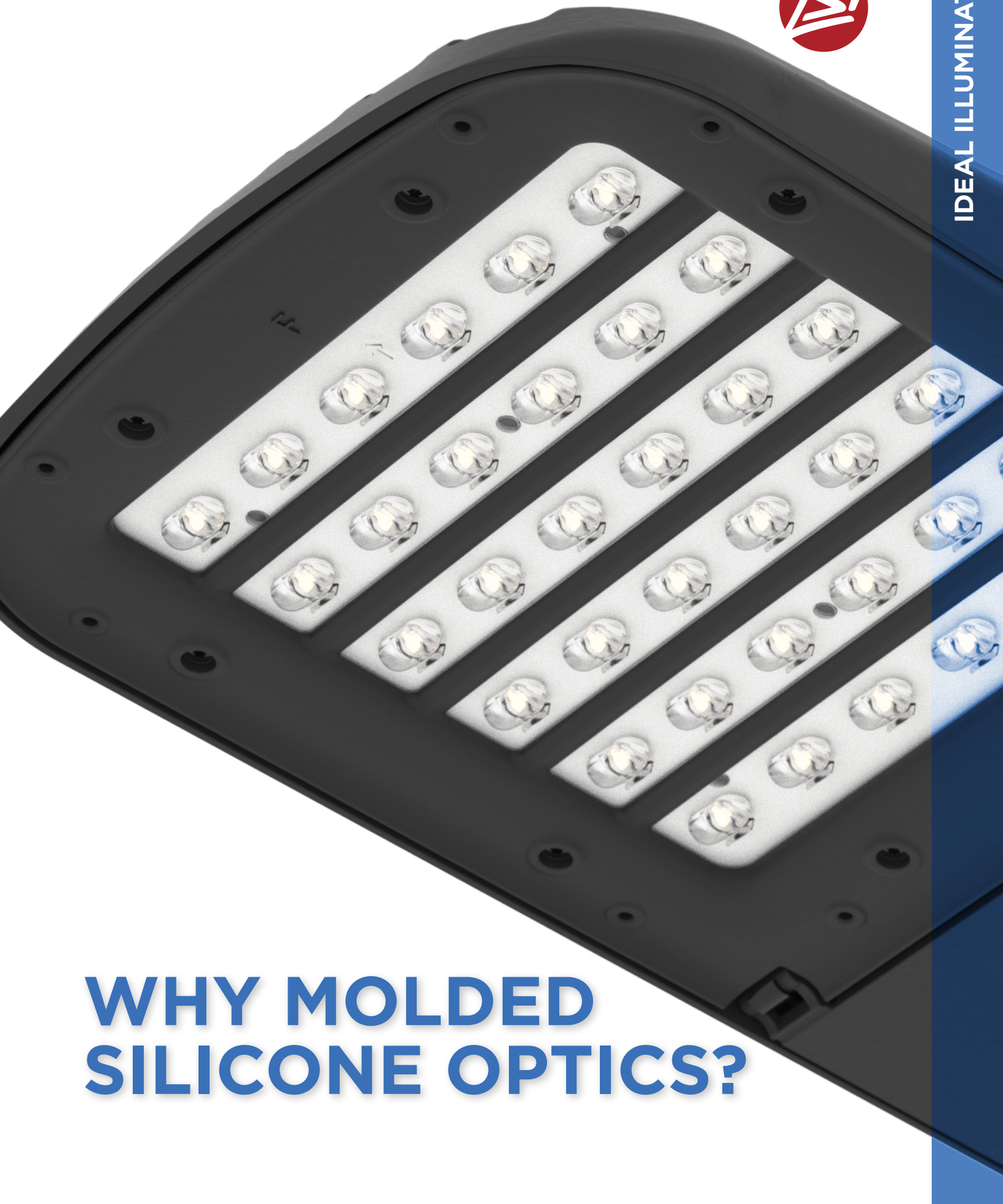
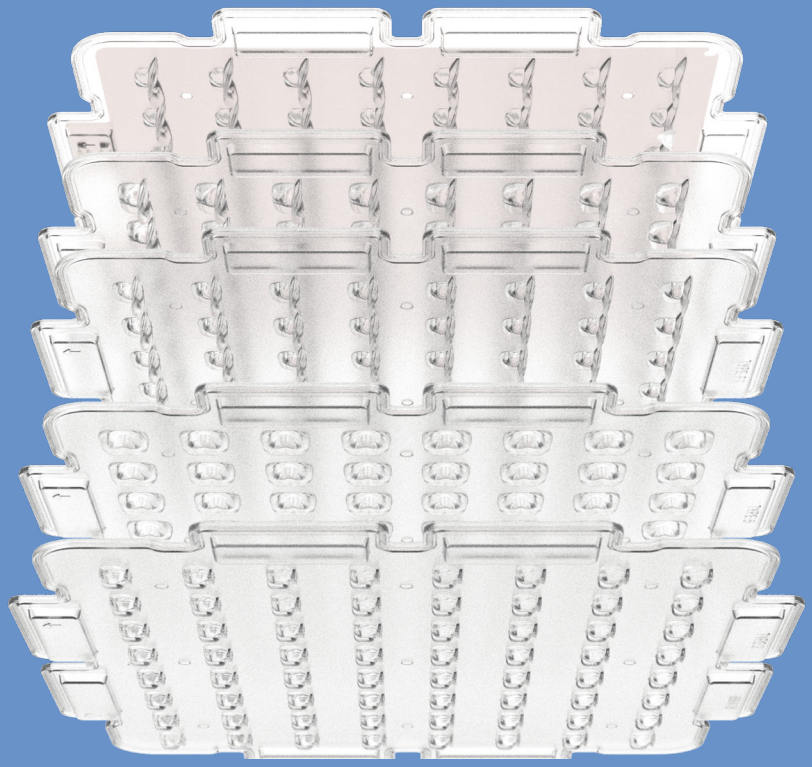


WHY MOLDED SILICONE OPTICS?

SILICONE **OPTICS**



LSI MOLDED SILICONE OPTIC BENEFITS INCLUDE:

- High photo-thermal stability operating temps
- High light transmittance of 93%
- Does not yellow or crack with age
- Does not leak
- Lighter weight (compared with glass)
- Accurately able to reproduce complex designs
- Allows integration of additional designs, such as gaskets
- Proven and warranted solution

DURABILITY & EFFICIENCY

LSI's exposure testing demonstrates that silicone is resistant to environmental aging caused by temperature and UV light. Unlike other industry-standard materials such as polycarbonate and acrylic, silicone does not crack or yellow over time. Silicone is the most thermal-resistant and efficacious optical material on the market. This allows us to utilize LEDs at their full potential by extracting the most light to optimize fixture performance.

FEATURES	SILICONE	ACRYLIC	POLYCARB
High Max Operating Temp	150° C	80°C	90°C
High Light Transmittance	~93%	~92%	~90%
UV Resistance (Yellows)	Superior	Good	Acceptable
Moisture Resistance	Good	Good	Good

FLEXIBLE DESIGN

LSI's silicone optics are single-molded, self-sealing LED lenses which increases fixture efficacy, performance and environmental durability.



Mirada Large (MRL)
ZONE Large (ZNL)



Mirada Medium (MRM)
ZONE Medium (ZNM)



Mirada Small (MRS)



Mirada Post Top
(MPP/MPH)



Mirada Wall Sconce
(XWS/XWM)



Slice Medium (SLM)



Linear Area (LAL4)



Enterprise (ENM4)
Constitution (XCN4)



Lexington (LXM4)



Lifestyle Medium (XDLM)

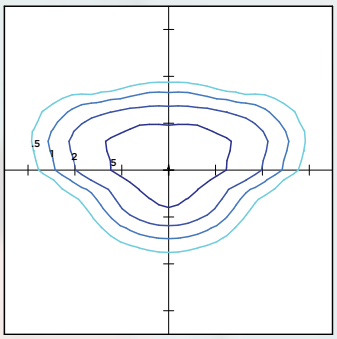
SUPERIORITY

LSI manufactures the commercial lighting industry's largest continuous optical silicone lensing. Fewer parts means fewer points-of-failure and increased reliability. Other manufacturers use a high number of discrete lens components and seals which exposes fixtures to leaks and environmental contaminants such as moisture, dust, ice, and temperature change.

FEATURES	BENEFITS
High photo-thermal stability	Higher maximum operating temp levels
High light transmittance	Maximum light delivered to tasks
Accurate reproduction	Consistent high quality and reliability
Integration of additional designs	Fewer components required
Proven by LED chip makers	Confidence in use of material for application
Single piece optics	Increases leak resistance

DISTRIBUTION

TYPE 2



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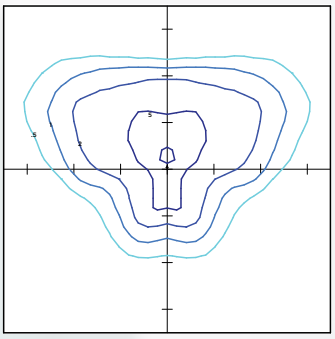

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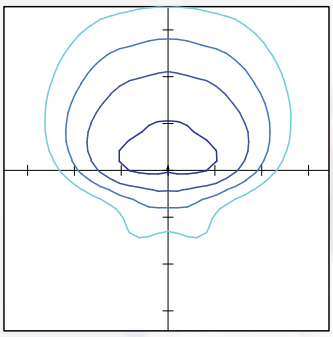

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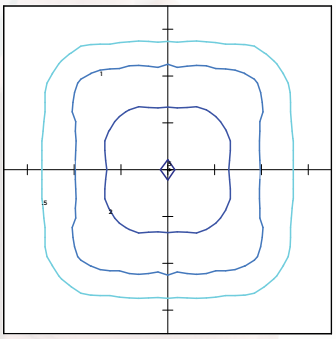

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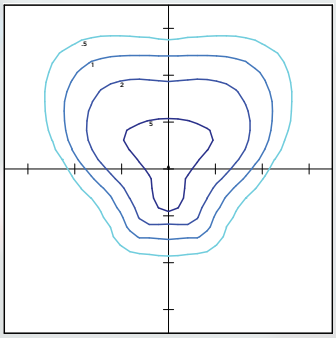

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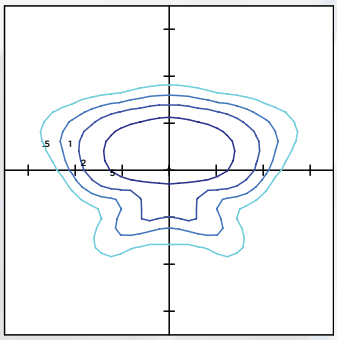

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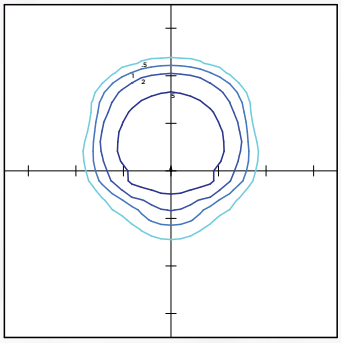

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