

MARIAN

LIGHT SHAPING & DIFFUSING LENS FOR OUTDOOR LUMINAIRES

CUSTOMER

US Manufacturer of high output, high efficiency LED luminaires for marine and industrial applications.

PART

Light Shaping Diffusing Lenses

MATERIAL

Multiple Luminit Light Shaping Diffusing Films with various beam angles

MARIAN ADVANTAGE

- Close partnership with the material supplier, Luminit.
- Advanced manufacturing capabilities and techniques to manufacture custom, flawless lenses with this fragile material.

CHALLENGE

The customer designs LED architectural luminaire that is used to wash the exterior of buildings with light. The manufacturer's goal was to design a light that offered variations in beam angle and superior performance compared to competitive alternatives without increased cost.

SOLUTION

Luminit Light Shaping and Diffusing films die cut by Marian! These films enable the LED Light to flow through the lens with select beam angles (for example 40, 50, 60) so that the installer can direct the light as needed without the expense of a molded lens, ground glass, or other hardware. Luminit offers the largest selection of angles and shapes (circular, elliptical) with films that offer high transmission and homogenization. Their patented technology allows for seamless rolls of film which enable Marian to die cut the required shapes efficiently and inexpensively. Marian's cutting process ensures that surfaces are free of scratches and other defects. During the cutting process Marian adds product identification (by embossing or silk screen) to distinguish the beam angle of each sheet.

CUSTOMER BENEFITS

The customer was able to enhance their architectural luminaire product with die cut Luminit film from Marian. The optional beam angles give the end-user multiple options for more pleasing and complete light distribution at a very reasonable cost. The customer maintains their reputation as a provider of high quality lighting solutions.

- The Marian and Luminit collaboration is proven to be successful in light design solutions.
- Marian's years of experience and advanced converting capabilities bring these and other materials into the customer's design.



An example of a building with architectural exterior washing lights



A portion of the final lens