

### General Description

This Type V Total Internal Reflection (TIR) optic is intended for use in outdoor or other high power applications using COBs with a light emitting surface of up to 18mm. The optical grade silicone provides excellent transmittance, impact resistance and high temperature operation while being immune to UV degradation. The 65° beam distribution allows greater spacing while maintaining uniformity.

The flange provides mounting features that are compatible with off-the-shelf frames. The bottom side of the optic includes mounting alignment features.

### Features and Benefits

- Excellent uniformity
- Unlimited service lifetime
- Mounting features matching other off-the-shelf optics
- Greater than 91% light transmittance
- Continuous service temperature range -45 to +200° C
- Impact, chemical and UV resistant

### Applications

Outdoor area lighting including parking lots, intersections, dusk-to-dawn, rough service, and more.

### Ordering Information

Please call 877-257-5841 for pricing and delivery.

### Specifications

“18-V-W”: 18mm LED / Type 5 (V) / Wide Beam Distribution

Designated LED size: 18mm

Light Distribution Type: V (5)

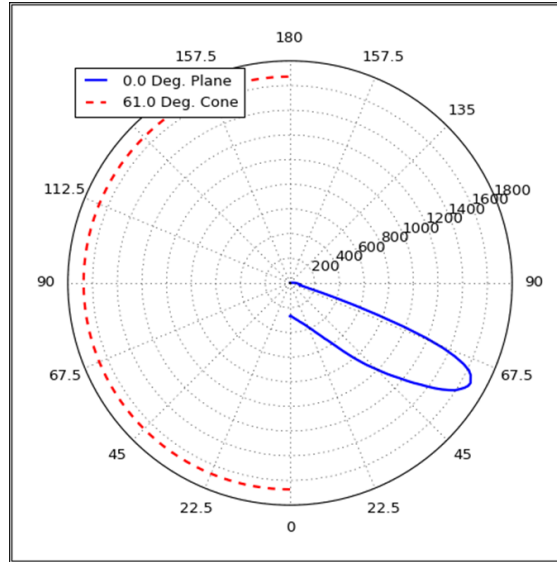
Beam Description: Wide

### Materials

Optical grade silicone

### Fixture Performance for Reference Only

**Report Number:** 07257  
**Issue Date:** 06/01/23  
**Prepared for:** A.L.P. LexaLite Brand  
**Catalog Number:** Series 1100: LSR  
**Luminaire:** Type V Silicone Optic with Vero 40E4000D7 LED  
**Lamp:** Vero 40E4000D7 LED  
**Driver:** California Instruments Power Supply  
**Watts:** 30.45  
**Volts:** 29  
**Lumens per watt:** 150.82  
**Luminous Diameter**  
**Width:** 0.24  
**Length:** 0.24  
**Height:** 0.09



Flux Distribution by Solid Angle		
(Per IESNA LM-79-08, Luminaire Classification System for Outdoor Luminaires)		
	Lumens	Percent of Fixture
Forward Light	2273.10	49.50
FL (0 - 30)	158.53	3.45
FM (30 - 60)	1249.57	27.21
FH (60 - 80)	828.12	18.03
FVH (80 - 90)	36.89	0.80
Back Light	2273.10	49.50
BL (0 - 30)	158.53	3.45
BM (30 - 60)	1249.57	27.21
BH (60 - 80)	828.12	18.03
BVH (80 - 90)	36.89	0.80
Uplight	46.38	1.01
UL (90 - 100)	31.70	0.69
UH (100 - 180)	14.68	0.32
Trapped Light	NaN	NaN
Total Flux	4592.59	100.0
Lumens per Watt	150.82	

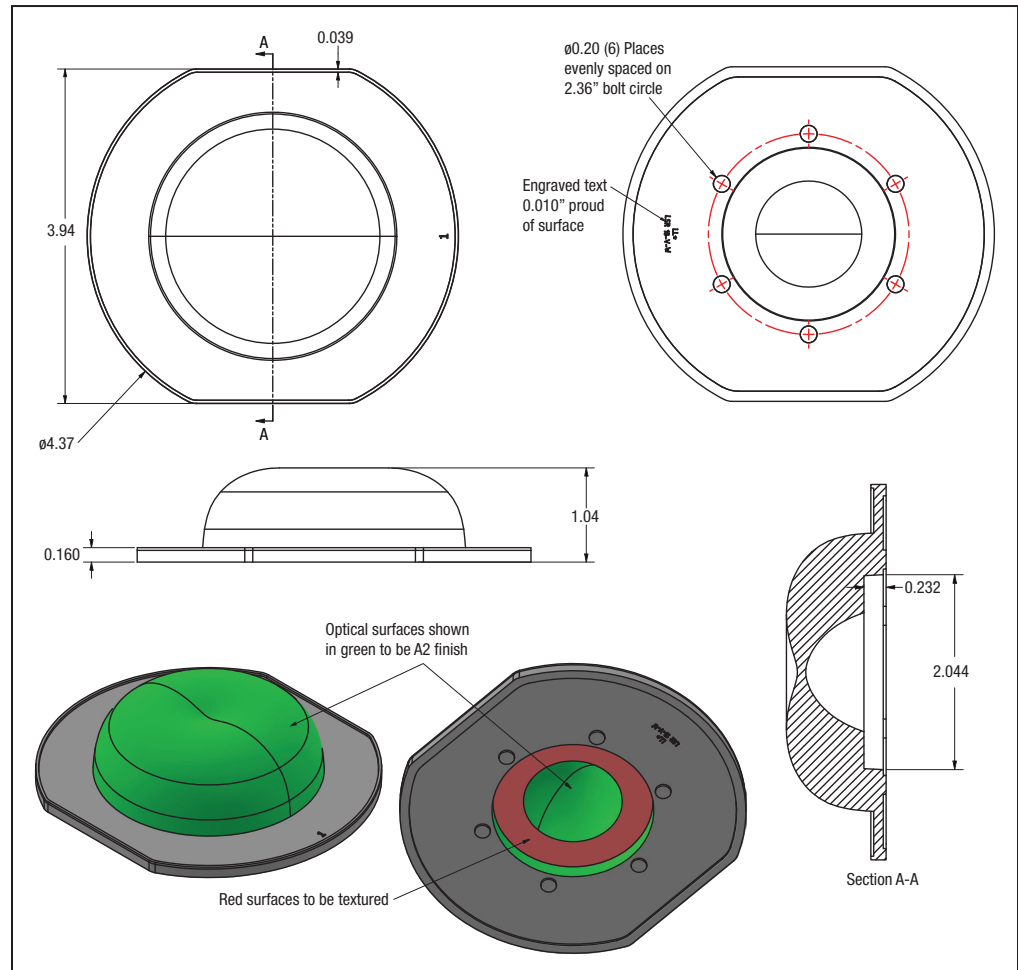
### Materials

See the LexaLite® brand price list for current part numbers and material offerings. Up-to-date and detailed material specifications can be found in the Resources section on our website [www.alpadvantage.com](http://www.alpadvantage.com).

### Notice

A.L.P. assumes no responsibility for suitability of these materials in any luminaire or application. Please test for fit and function prior to ordering project quantities.

While A.L.P. utilizes IESNA testing procedures and believes our testing results to be accurate, A.L.P. provides photometry for reference only. Actual results will vary based on the actual light source(s) and power source(s) used, i.e. ballast, driver, generator, etc. and the combinations in which they are used, as well as operating temperatures, and other electrical and environmental variables. We urge that customers perform their own fixture qualifications prior to making performance-based claims. In no event will A.L.P. be liable for any loss or damage, including without limitation, indirect or consequential loss or damage in connection with the use of this information.



*This drawing is for reference only. Actual part dimensions will vary. Customer is urged to review actual samples to confirm fit and function. All specifications and dimensions are subject to change without notice.*