

## S2F Series: Dynamic Beam Shaping Lenses Product Datasheet

### Description

LensVector's Dynamic Beam Shaping lenses deliver virtually infinite beam control allowing designers to create scenes and manage environments on-demand without mechanical systems, without ladders, without replacement optics, and without replacement lamps.

LensVector lenses work perfectly with conventional or wireless control systems. From very narrow spots to wide flood, or something in between, LensVector's Dynamic Beam Shaping lenses give you more control than ever before.

S2F Series lenses enable Dynamic Beam Shaping from as narrow as 15° and as wide as 35°.



LensVector supports integration efforts with driver reference designs, sample drivers, PCBs and software reference designs. Contact LensVector for third party suppliers of drivers, collimating optics, LEDs and software solutions that enable customer designs.

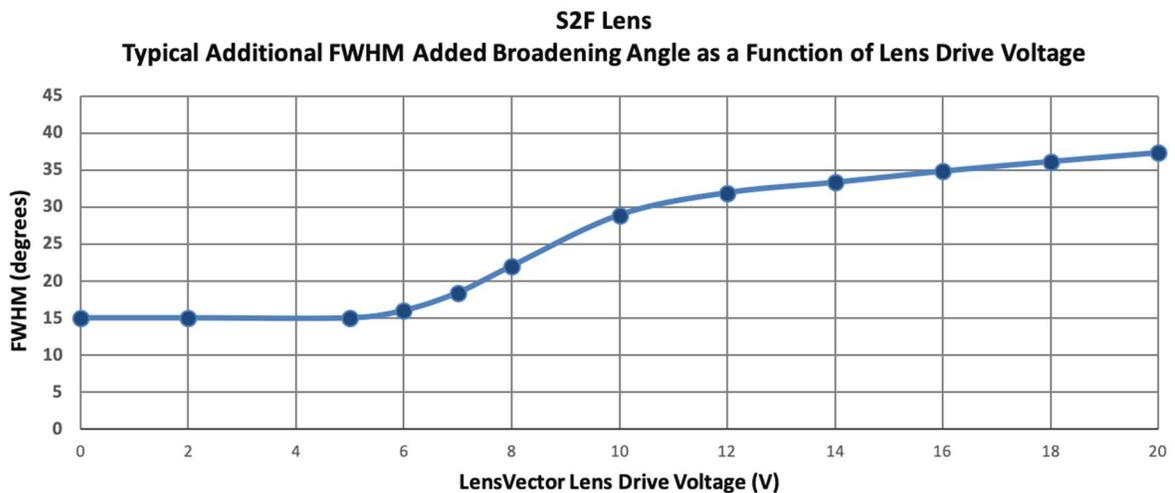
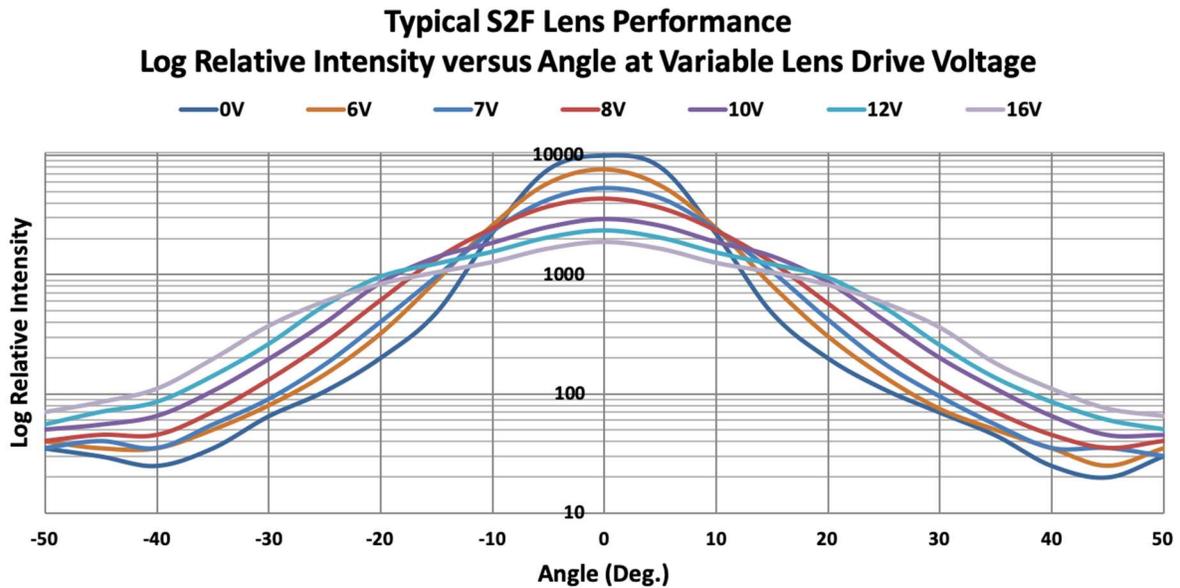
### S2F Series

Part Number	Clear Aperture	Dynamic Beam Shaping Min / Max	Center Beam Intensity Efficiency	Total Beam Flux Transmission Efficiency
LV-S2F-35002-P	35.1 mm	15° to 35°	~ 89% to 84%	~ 91% - 88%
LV-S2F-44002-P	44.1 mm			
LV-S2F-48002-P	48.1 mm			
LV-S2F-65002-P	65.1 mm			

\*For outdoor use, use LV-S2F-XX002-PU

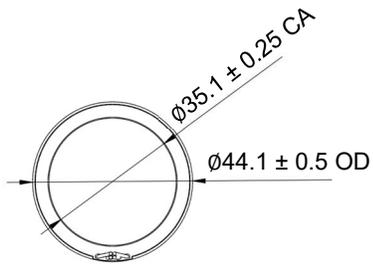
## Performance Graphs

The following performance graphs apply to all S2F Series lenses.

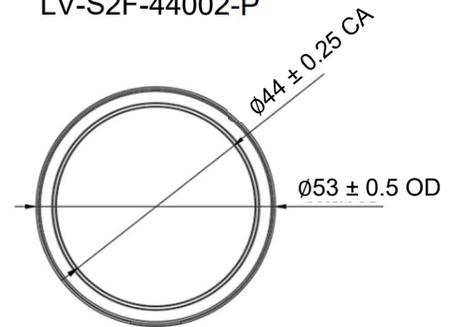


## Dimensions

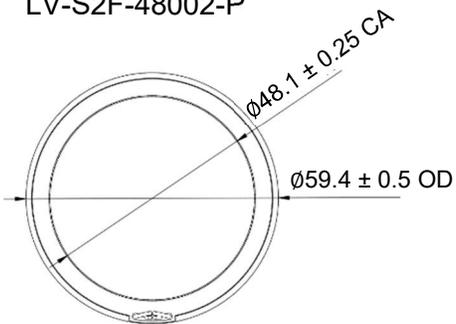
LV-S2F-35002-P



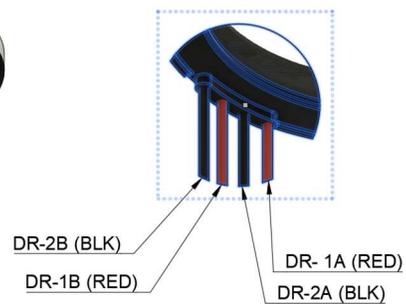
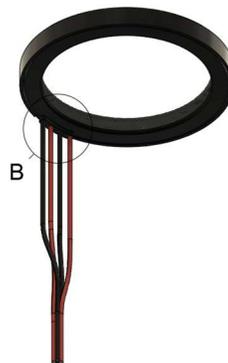
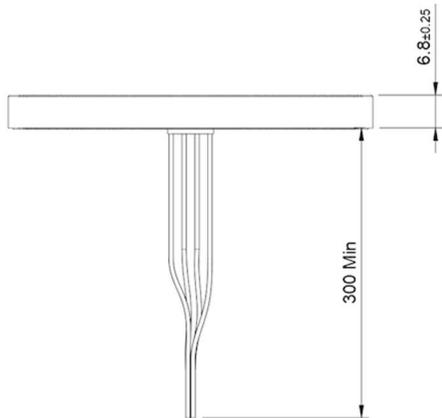
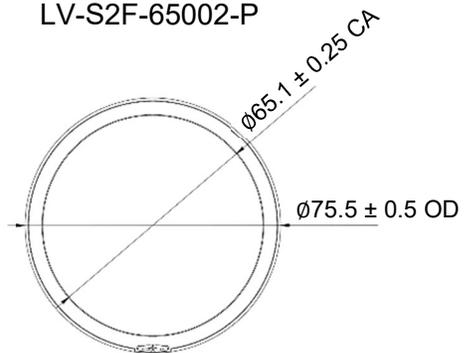
LV-S2F-44002-P



LV-S2F-48002-P



LV-S2F-65002-P



The LensVector lens is sensitive only to the AC components of the differential voltages (DR\_1A – DR\_1B) and (DR\_2A – DR\_2B).

Therefore, DR\_1A can be swapped with DR\_1B and DR\_2A can be swapped with DR\_2B, without affecting the behavior of the lens.

# LENSVECTOR®

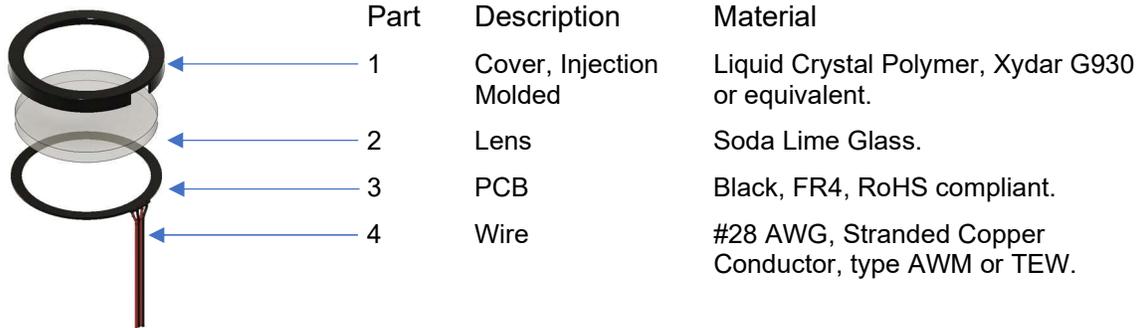
## Normal Operating Conditions

Indoor Use Only      -20° to 80°C, less than 100% RH

**Note 1:** For verification, an operating reference temperature  $T_{ref}$  measurement via a contact thermocouple at the outside center-point of the lens should not exceed 70°C.

**Note 2:** When using the outdoor version of the lens, the LensVector part cannot be used to achieve an IP rating for the finished luminaire.

## Exploded View and Material Callout



## Compliance



Application of Council Directives:  
Low Voltage Directive (LVD) 2006/95/EC  
Electromagnetic Compatibility Directive (EMC) 2004/108/EC  
Conformity is declared to Annex II (EMC)2004/108/EC

## About LensVector

LensVector is transforming the shape of light from fixed reflectors and lenses with digital liquid crystal technology that allows light to be infinitely shaped on demand from IoT platforms, mobile devices, and modern control systems. LensVector's innovative Dynamic Beam Shaping technology has been recognized with a 2018 Sapphire Award and as a Top Ten Innovation at the 2018 Light + Building Conference and Exhibition.

LensVector lenses are covered by U.S. and international patents. These patents are listed and updated at <http://lensvector.com/company/#patents>

## Availability

See <http://lensvector.com> for distribution partners.