NOTES: UNLESS OTHERWISE SPECIFIED

1. -OA1- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.

2. ASPHERIC SURFACES ARE DEFINED BY:

$$z(r) = \frac{r^2/R_c}{1+\sqrt{1-(1+K)(r/R_c)^2}} + \sum_i A_{2i} r^{2i}$$

WHERE: Y= RADIAL DISTANCE FROM VERTEX IN mm

3. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	Ø4.50	Ø4.00
R_C	8.767857	PLANO
K	-0.578238	0.000000
A_2	0.000000E0	0.000000E0
A_4	0.000000E0	0.000000E0
A_6	-8.484209E-8	0.000000E0
A_8	-7.465802E-10	0.000000E0
A_{10}	0.000000E0	0.000000E0
A_{12}	0.000000E0	0.000000E0
A_{14}	0.000000E0	0.000000E0
A_{16}	0.000000E0	0.000000E0

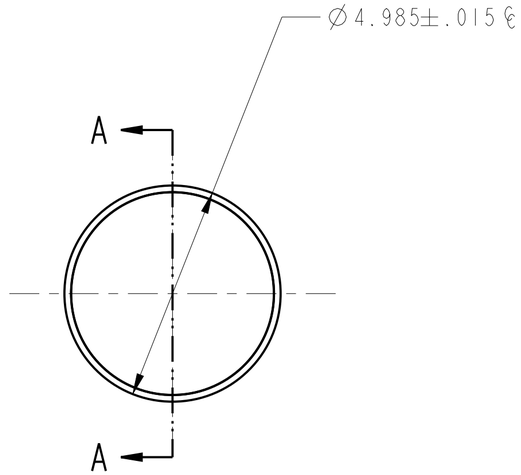
4. NOMINAL DESIGN PARAMETERS.

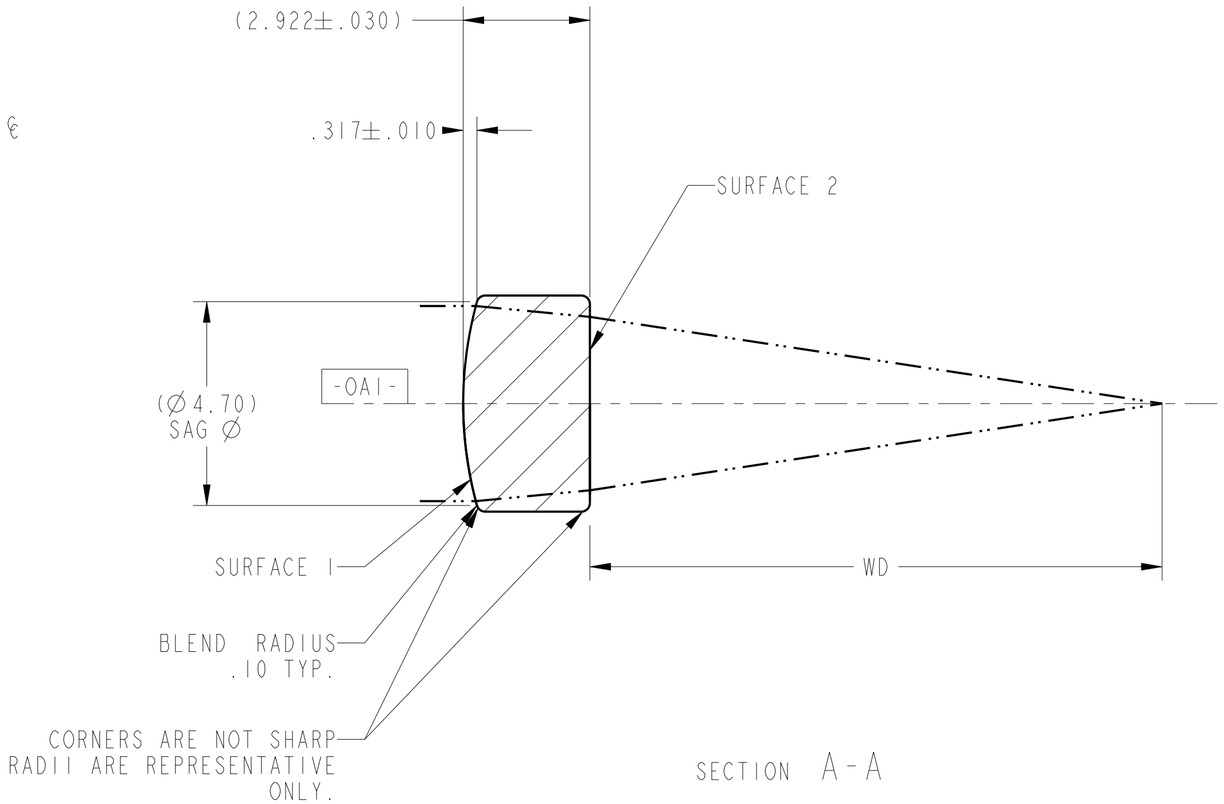
DESIGN WAVELENGTH	670 nm
W.D.	13.2 mm
N.A.	0.2
E.F.L.	15.0mm ± 1.0%

5. FEATURES IDENTIFIED AS ℄ ARE CRITICAL CHARACTERISTICS.
CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.

6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.℄
-00: S/D: 40/20

7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.076 WAVES RMS @ 632.8nm;
@ 50% APERTURE < 0.270 WAVES P-V
PER LIGHTPATH PWI INS-8.2-03.℄





SECTION A-A

REVISION HISTORY

REV	DCO	DESCRIPTION	DATE	INITIALS
A	2086	INITIAL RELEASE	04/15/09	ASYMMONS
B	2159	OUTSIDE DIAMETER WAS 5.00	07/01/09	ASYMMONS
C	4367	UPDATED FORMAT	12/09/15	PL

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM.
DECIMAL TOLERANCES ARE:
.X ± 0.25
.XX ± 0.10
.XXX ± 0.025
.XXXX ± 0.013
ANGLES: ± 0.5°

DRAWN: ASYMMONS\ORL

MATERIAL: D-ZK3(m)

SOFTWARE: Pro/ENGINEER

LightPath TECHNOLOGIES
2603 CHALLENGER TECH CT. SUITE 100
ORLANDO, FL 32826

TITLE: LENS CODE 354120

SIZE: A2

DWG NO: 0354120

REV: C

SCALE: 10.00

THIRD ANGLE PROJECTION

SHEET 1 OF 1

REV C

SH 1

DWG NO 0354120