NOTES:
1. SUBSTRATE: GRADE A FINE ANNEALED
   ZEONEX E48R

2. COATING:
   S1: NONE
   S2: NONE

3. EDGES: FINE GROUND

4. ASPHERIC SURFACE DESCRIBED BY:

$$Z_{ASPH}(Y) = \frac{(1/RADIUS)*Y^2}{1+\sqrt{1-(1+k)*(1/RADIUS)^2*Y^2}} + D*Y^2 + E*Y^4 + F*Y^6 + G*Y^8 + H*Y^{10} + J*Y^{12} + L*Y^{14}$$

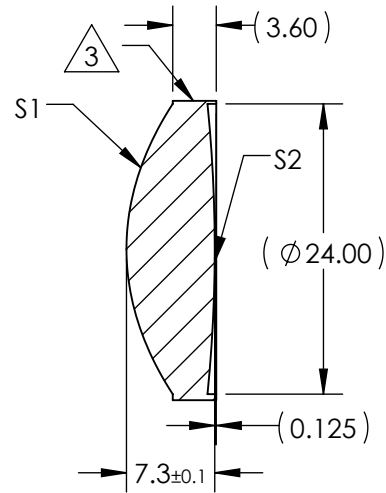6. SURFACE PROFILE CHANGE DUE TO DIFFRACTIVE PATTERN DEFINED BY:
   WHERE:
   $$STEP\_HEIGHT = \frac{\lambda}{nd-1}$$
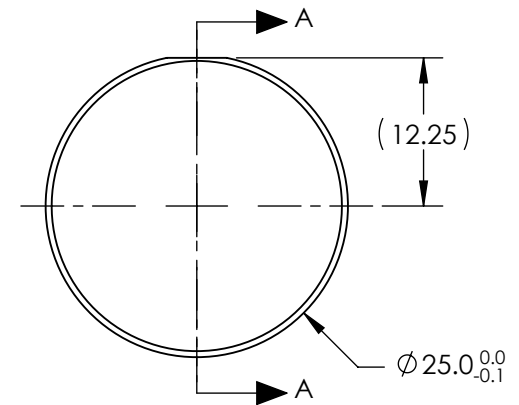
$$Z_{DIFF}(Y) = \frac{1}{(nd-1)}*(Z_2*Y^2 + Z_4*Y^4) + (STEP\_HEIGHT)*\left[\left|INT\left(\frac{1}{\lambda}*(Z_2*Y^2 + Z_4*Y^4)\right)\right|\right]$$
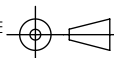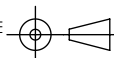
### COEFFIECIENT TABLE

| COEFFIECIENT | S1 |
|---|---|
| λ | 0.587 MICRONS |
| Z2 | -9.0934891E-4 |
| Z4 | -2.9217142E-7 |
| k | -0.52 |
| D | 0 |
| E | -4.5472262E-6 |
| F | -1.0144672E-8 |
| G | -1.5372192E-11 |
| H | 0 |
| J | 0 |
| L | 0 |



SECTION A-A

(3.60)

S1

S2

( ⌀24.00 )

(0.125)

7.3±0.1

3

A

A

( 12.25 )

⌀25.0 $^{0.0}_{-0.1}$

| REV. A | | S1 | S2 |
|---|---|---|---|
| SHAPE | | CONVEX | CONVEX |
| RADIUS | | 19.2 | 120.0 |
| SURFACE QUALITY | | 60 - 40 | 60 - 40 |
| CLEAR APERTURE | | ⌀23.0 | ⌀23.0 |
| BEVEL MAX | | PROTECTIVE AS NEEDED | PROTECTIVE AS NEEDED |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE DIMENSIONS ARE FOR REFERENCE ONLY

| | | |
|---|---|---|
| EFL (@ 587.6nm) | 30 | |
| BFL (@ 587.6nm) | 25.82 | |

**Edmund Optics®**

THIRD ANGLE PROJECTION

TITLE: 25mm DIA. X 30mm FL, UNCOATED, HYBRID ASPHERE

ALL DIMS IN: mm

DWG NO: 65993

SHEET 1 OF 1