

**NOTES:**

1. SUBSTRATE: GRADE A FINE ANNEALED ZEONEX E48R
2. COATING:  
S1: NONE  
S2: NONE

3. EDGES: FINE GROUND

4. ASPHERIC SURFACE DESCRIBED BY:

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

6. SURFACE PROFILE CHANGE DUE TO DIFFRACTIVE PATTERN DEFINED BY:

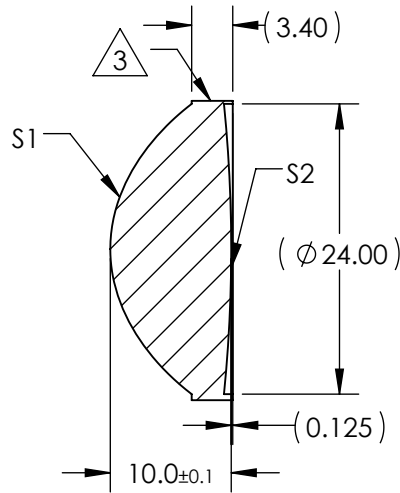
WHERE:

$$STEP \quad \_ \quad HEIGHT = \frac{\lambda}{nd - 1}$$

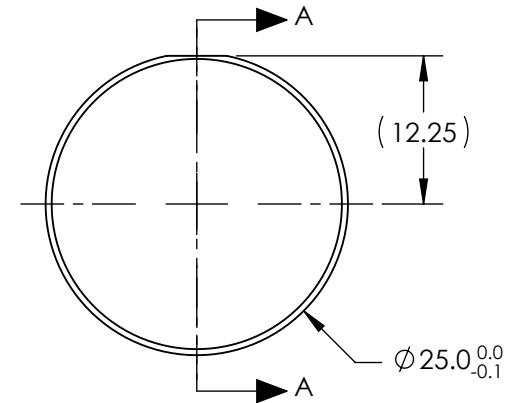
$$Z_{DIFF}(Y) = \frac{1}{(nd - 1)} * (Z_2 * Y^2 + Z_4 * Y^4) + (STEP \_ HEIGHT) * \left[ INT \left( \frac{1}{\lambda} * (Z_2 * Y^2 + Z_4 * Y^4) \right) \right]$$

**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**


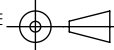
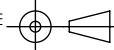
COEFFICIENT TABLE	
COEFFICIENT	S1
$\lambda$	0.587 MICRONS
$Z_2$	-1.3038692E-3
$Z_4$	-1.8779522E-06
$k$	-0.6
$D$	0
$E$	-1.6901876E-6
$F$	-3.085777E-8
$G$	-1.0872058E-10
$H$	-7.5852482E-13
$J$	0
$L$	0



SECTION A-A



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE DIMENSIONS ARE FOR REFERENCE ONLY

REV. A	S1	S2	EFL (@ 587.6nm)	20	 Edmund Optics®			
SHAPE	CONVEX	CONVEX	BFL (@ 587.6nm)	13.89				
RADIUS	12.0	120.0			TITLE	25mm DIA. X 20mm FL, UNCOATED, HYBRID ASPHERE		
SURFACE QUALITY	60 - 40	60 - 40						
CLEAR APERTURE	Ø 23.0	Ø 23.0			DWG NO	65991		
BEVEL MAX	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED						
			ALL DIMS IN	mm				
					SHEET 1 OF 1			