NOTES:

1. SUBSTRATE:
   N-BK7

2. SURFACE S2 TO BE PARALLEL TO SURFACE S1 TO WITHIN 1 ARCMIN

3. COATING (APPLY ACROSS COATING APERTURE)
   S1: NONE
   S2: NONE

4. EDGES: FINE GROUND

5. POWER, IRREGULARITY, AND SURFACE QUALITY SPECIFICATIONS APPLY ACROSS CLEAR APERTURE

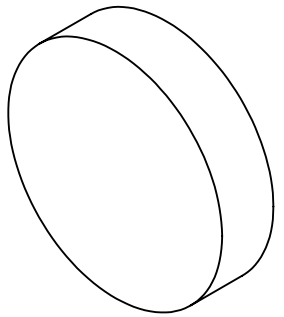
6. TRANSMITTED WAVE FRONT OVER THE CLEAR APERTURE SHALL BE SPHERICAL (Y^4) +0.25λ WAVE PEAK TO VALLEY @ 587nm.
   WAVE FRONT ERROR FROM IDEAL SPHERICAL FORM SHALL BE LESS THEN ±0.0625 WAVES

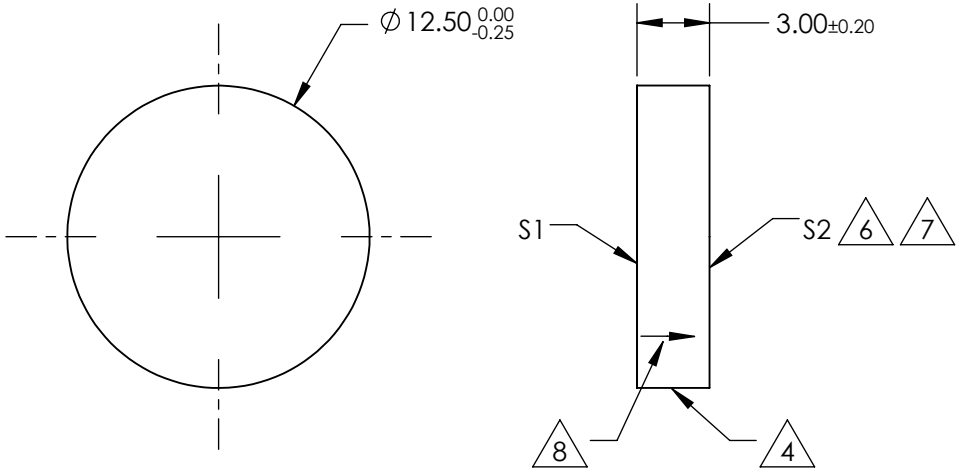
7. ASPHERIC SURFACE DESCRIBED BY (REF. COEFFICIENT TABLE):

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

8. APPLY AN ARROW POINTING TOWARDS THE ASPHEREIC SURFACE S2 WITH PENCIL OR PERMANENT INK

FOR INFORMATION ONLY:
DO NOT MANUFACTURE PARTS TO THIS DRAWING





COEFFIECIENT TABLE 7.		
COEFFICIENT	S1	S2
k	0	0
D	0	0
E	0	-2.8391015E-07
G	0	0
H	0	0
J	0	0
L	0	0

	S1	S2
SHAPE	PLANO	PLANO
CLEAR APERTURE	>85	>85
SURFACE QUALITY	60-40	60-40
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

Edmund Optics®

THIRD ANGLE PROJECTION		TITLE	12.5mm DIA +0.25λ ABERRATION, SPHERICAL ABERRATION PLATE	
ALL DIMS IN	mm	DWG NO	66749	SHEET 1 OF 1