



#### NOTES/SPECIFICATIONS:

1. MATERIAL: CORNING FUSED SILICA, PER MIL-G-174B
2. MANUFACTURE PER MIL-PRF-13830B EXCEPT  
MINIMUM ILLUMINATION SHALL BE 100 WATT BULB  
MINIMUM MAGNIFICATION SHALL BE 6X
3. CHAMFER 0.10 TO 0.25mm AT 45° ALL SHARP EDGE
4. CLEAR APERTURE: >80% OF DIAMETER
5. SURFACE FLATNESS(S1): BETTER THAN  $\lambda/10$  @ 632.8nm,  
OVER  
CLEAR APERTURE
6. SURFACE QUALITY(S1): 10-5 SCRATCH DIG
7. NO STAINING, HAZE, OR RESIDUAL POLISH COMPOUND  
VISIBLE WHEN INSPECTED WITH A HIGH BRIGHTNESS LIGHT  
AT AN ANGLE SUCH AS A PELICAN 1920 FLASHLIGHT OR  
THORLABS OSL2 HIGH BRIGHTNESS ILLUMINATOR AT A  
SOURCE DISTANCE OF LESS THAN 2 cm
8. NO CHIPS ALLOWED
9. SURFACE FLATNESS(S2): BETTER THAN  $\lambda/2$  @ 632.8nm, OVER  
CLEAR APERTURE
10. SURFACE QUALITY(S2): 40-20 SCRATCH DIG
11. PARALLELISM: < 3arcmin

DRAWING PROJECTION						
	NAME	DATE	D12.7 Substrate, Blank, Polished			
DRAWN	CWD	2022/5/18	WG4127-6.4-1			
APPROVAL	ZSE	2022/5/18	MATERIAL	WEIGHT	SCALE	REV
FOR INFORMATION ONLYNOT FOR MANUFACTURING PURPOSES			SEE NOTES		2:1	A