



NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 4 $\mu$ m
2. FOCAL LENGTH:  $f = -80.0\text{mm} \pm 2\%$
3. BACK FOCAL LENGTH(REF):  $bf = -77.9\text{mm}$
4. CLEAR APERTURE:  $> \phi 11.43\text{mm}$
5. SURFACE QUALITY: 40-20 SCRATCH-DIG
6. CENTRATION:  $< 3\text{arcmin}$
7. DIAMETER TOLERANCE:  $+0.0/-0.1\text{mm}$
8. THICKNESS TOLERANCE:  $\pm 0.1\text{mm}$
9. COATING: BBAR  $R_{\text{avg}} < 1.25\%$  FROM 2.0-5.0 $\mu$ m,  $0^\circ$  AOI ON BOTH OPTICAL SURFACES

FOR INFORMATION ONLY  
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			<b>THORLABS</b> www.thorlabs.com CaF <sub>2</sub> - MENISCUS LENS, $\phi 12.7\text{mm}$ , $f = -80\text{mm}$ , BBAR: 2.0-5.0 $\mu$ m	
NAME	DATE			
DRAWN	KMR	21/MAY/18	MATERIAL VACUUM UV GRADE CALCIUM FLUORIDE	
APPROVAL	BW	21/MAY/18		
COPYRIGHT © 2018 BY THORLABS			ITEM #	APPROX WEIGHT
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS			LF5154-E	1.3g