

# GLASS BK7 PLANO-CONCAVE LENSES

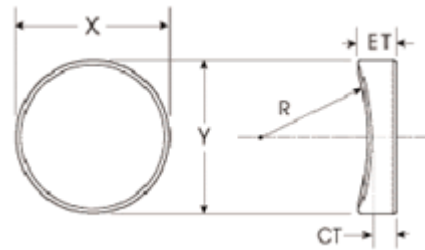
Spherical plano concave lenses of BK7 are mostly used for monochromatic lights, such as laser beams or Fraunhofer lines.

These lenses are useful when parallel beams are converged or lights from point sources are converted to parallel beams, namely at infinite conjugate ratios.

Non-coated and AR coated products are available.

## Standard Specifications:

Optical Material:	BK7 Grade A Optical Glass
Diameter Tolerance:	+0.0, -0.1mm
Design Wavelength:	546.10nm
Design Index:	1.5183±0.0005
Paraxial Focal Length:	±2%
Centration:	3 arc minutes
Clear Aperture:	>85%
Surface Quality:	60-40 scratch and dig
Wavefront Distortion:	lambda/4 at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request



## Standard Glass BK7 Plano-Concave Lenses:

Dia(mm)	f(mm)	R1(mm)	te(mm)	tc(mm)	Fb(mm)	Product Number
4.0	-6.0	3.101	1.50	0.77	-5.0	UQT-PLCAB0001
5.0	-10	5.17	1.64	1.0	-8.91	UQT-PLCAB0002
6.0	-8.0	4.15	3.3	2.0	-5.8	UQT-PLCAB0004
6.0	-10.0	5.18	3.0	2.0	-8.0	UQT-PLCAB0005
6.0	-12.0	6.22	2.8	2.0	10.2	UQT-PLCAB0006
6.0	-18.0	9.33	2.5	2.0	-16.4	UQT-PLCAB0007
8.0	-10.0	5.18	3.1	2.0	-8.0	UQT-PLCAB0008
8.0	-18.0	9.33	2.9	2.0	-16.1	UQT-PLCAB0009
7.5	-13.0	6.743	2.0	0.86	-11.7	UQT-PLCAB0010
10.0	-15.0	7.78	3.8	2.0	-12.5	UQT-PLCAB0011
10.0	-22.0	11.40	3.1	1.9	-20.0	UQT-PLCAB0012
12.7	-15.0	7.78	5.3	2.0	-11.5	UQT-PLCAB0013
12.7	-20.0	10.37	4.2	2.0	-17.2	UQT-PLCAB0014
12.7	-25.0	12.96	3.7	2.0	-22.6	UQT-PLCAB0015
12.7	-30.0	15.55	3.4	2.0	-27.8	UQT-PLCAB0016
12.7	-40.0	20.73	3.0	2.0	-38.0	UQT-PLCAB0017
12.7	-50.0	25.92	2.8	2.0	-48.2	UQT-PLCAB0018
12.7	-75.0	38.87	2.5	2.0	-73.4	UQT-PLCAB0019

12.7	-100.0	51.83	2.4	2.0	-98.4	UQT-PLCAB0020
14.0	-25.0	12.968	4.0	1.90	-22.4	UQT-PLCAB0021
17.0	-34.0	17.637	4.20	2.00	-31.2	UQT-PLCAB0022
18.5	-30.0	15.562	5.0	2.00	-26.7	UQT-PLCAB0023
20.0	-40.0	20.73	4.5	1.9	-37.0	UQT-PLCAB0024
20.0	-35.0	18.155	4.20	1.20	-32.2	UQT-PLCAB0025
20.0	-50.0	25.936	4.00	2.00	--47.4	UQT-PLCAB0026
22.0	-34.0	17.637	5.80	1.90	30.2	UQT-PLCAB0027
22.4	-40.0	20.73	5.3	2.0	-36.5	UQT-PLCAB0028
22.4	-50.0	25.92	4.6	2.0	--47.0	UQT-PLCAB0029
22.4	-60.0	31.10	4.1	2.0	57.3	UQT-PLCAB0030
22.4	-100.0	51.83	3.2	2.0	-97.9	UQT-PLCAB0031
22.4	-75	38.905	3.50	1.85	-72.7	UQT-PLCAB0032
22.4	-70	36.309	3.83	2.05	-67.5	UQT-PLCAB0033
25.0	-700.0	363.105	2.20	2.00	-689.6	UQT-PLCAB0034
25.4	-25.4	13.17	11.7	2.0	-17.7	UQT-PLCAB0035
25.4	-35.0	18.14	7.2	2.0	-30.3	UQT-PLCAB0036
50.0	-25.4	25.92	5.3	2.0	-46.5	UQT-PLCAB0037
60.0	-25.4	31.10	4.7	2.0	-56.9	UQT-PLCAB0038
70.0	-25.4	36.28	4.3	2.0	-67.2	UQT-PLCAB0039
75.0	-25.4	38.87	4.1	2.0	-72.3	UQT-PLCAB0040

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

**NOTES!**

- ➔ The edge thicknesses fare theoretical values not including chamfer.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.