

Aspheric Condenser Lenses

- *Ideal for broadband illumination applications*
- *Minimal spherical aberrations*



Aspheric lenses have at least one surface that is not a true sphere. The aspheric profile used is frequently a conic surface of revolution about the lens axis, matched in design to the shape of the second surface. The shape of this lens produces a dramatic reduction of the spherical aberration, even for very low f-numbers.

The lenses listed here have a molded aspheric surface as well as a second surface (R2) which is ground and polished. These lenses are mainly used in condenser or illumination applications. They are also used where a high light gathering power is needed such as for focusing onto detectors or fibers.

Molded Aspheric Condenser Lenses

Catalog Number	Diameter Ø (mm)	Effective Focal Length, EFL (mm)	Center Thickness (mm)	Glass	R2	Front Focal Length (mm)	Back Focal Length (mm)
01-103-001	5.00	3.70	2.00	LIBA2000	Plano	3.70	2.39
01-103-002	6.30	9.00	1.70	LIBA2000	Plano	9.00	7.88
01-103-003	6.80	6.00	2.70	LIBA2000	Plano	6.00	4.23
01-103-004	8.50	7.40	4.00	LIBA2000	Plano	7.40	4.77
01-103-005	12.00	10.50	5.50	LIBA2000	25.0	9.34	6.06
01-103-006	12.00	7.50	5.50	LIBA2000	12.70	6.39	4.56
01-103-007	13.00	7.40	6.30	LIBA2000	16.14	7.06	3.77
01-103-008	16.00	10.80	8.00	F2	Plano	10.80	5.86
01-103-009	18.00	13.50	7.40	LIBA2000	Plano	13.50	8.64
01-103-010	18.00	15.50	7.40	LIBA2000	Plano	15.50	10.64
01-103-011	18.00	8.00	6.30	F2	Plano	8.00	4.11
01-103-012	20.00	16.00	8.00	LIBA2000	80.00	15.45	11.12
01-103-013	20.00	17.50	8.30	LIBA2000	117.50	17.07	12.35
01-103-014	26.00	19.50	9.05	LIBA2000	42.00	18.06	14.63
01-103-015	30.00	17.50	14.00	LIBA2000	24.00	14.00	10.37
01-103-016	50.00	40.00	19.00	LIBA2000	Plano	40.00	27.51