

## ◎ Common Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	FL12-24	Ø24	12	0.3	
2	FL50-140	Ø140	50	0.3	
3	FL63-160	Ø160	63	0.3	
4	FL63-90	Ø90	63	0.3	
5	FL70-260	Ø260	70	0.5	
6	FL83.3-70	Ø70	83.3	0.3	
7	FL90-200	200x170	90	0.3	
8	FL90-150	Ø150	90	0.3	
9	FL100-180	Ø180	100	0.3	
10	FL100-200	200x170	100	0.3	
11	FL120-200	Ø200	120	0.3	
12	FL120-220	220x180	120	0.3	
13	FL135-120	120x100	135	0.3	
14	FL135-130	Ø130	135	0.3	
15	FL135-180	180x160	135	0.3	
16	FL135-230	Ø230	135	0.3	
17	FL140-150	Ø150	140	0.3	
18	FL140-200	200x170	140	0.3	
19	FL140-300	300x300	140	0.5	
20	FL148-120	120x90	148	0.3	
21	FL152.4-160	Ø160	152.4	0.3	
22	FL160-220	220x170	160	0.3	
23	FL160-130	Ø130	160	0.3	
24	FL170-230	Ø230	170	0.3	
25	FL170-240	240x180	170	0.3	
26	FL185-230	Ø230	185	0.3	
27	FL185-130	130x100	185	0.3	
28	FL200-230	Ø230	200	0.3	
29	FL200-210	210x160	200	0.3	
30	FL200-285	Ø285	200	0.5	
31	FL210-300	Ø300	210	0.3	
32	FL210-220	220x180	210	0.3	
33	FL210-300	Ø300	210	0.5	
34	FL220-220	220x170	220	0.5	
35	FL220-285	285x285	220	0.5	
36	FL220-395	395x395	220	0.5	
37	FL235-230	Ø230	235	0.3	
38	FL235-300	Ø300	235	0.5	
39	FL235-220	220x220	235	0.3	
40	FL235-310	310x310	235	0.5	
41	FL260-170	Ø170	260	0.5	
42	FL310-230	230x170	310	0.3	
43	FL326-310	310x310	326	0.5	
44	FL330-395	395x395	330	0.5	
45	FL400-385	Ø385	400	0.5	

46	FL406-300	300x250	406	0.5
47	FL510-230	230x200	510	0.5
48	FL510-300	300x220	510	0.5
49	FL510-220	220x200	510	0.5
50	FL510-420	420x260	510	0.5
51	FL550-350	350x250	550	0.5
52	FL600-300	300x300	600	0.5
53	FL600-325	Ø325	600	0.5
54	FL600-330	330x240	600	0.5
55	FL630-431	431x401	630	0.5
56	FL900-360	Ø360	900	0.5

### ◎ **Large Fresnel Lens**

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	LF1300-1100	1100x1100	1300	0.5	Condenser
2	LF890-812	812.8x812.8	890	0.5	Condenser
3	LF1100-1328	1328x747(60")	1100	0.14	Rear Projector
4	LF1100-1439	1439x809.5(65")	1100	0.14	Rear Projector
5	LF700-780	780x780	700	0.2	

### ◎ **Reading Magnifier Series**

No.	Description	Size H x L (mm)	Focal Length (mm)	AMPLIFICATION	etc.
1	RM3X-S1	277x212		3x	
2	RM3X-S2	300x250		3x	
3	RM4X-S3	130x90		4x	
4	RM3X-S4	Ø75 , 130x20		3x	
5	RM3X2X	86x54	83 / 125	3x / 2x	
6	RM3X-S5	Ø99 , 150x25		3x	
7	RM2X-S6	400x300	510	2x	

### ◎ **Minus Focus Fresnel Lens**

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	FL-300-240	240x240	-300	0.5	
2	FL-48-65	Ø65	-48	0.3	
3	FL-220-300	300x300	-220	0.5	
4	FL-63-75	Ø75	-63	0.3	
5	FL-170-180	Ø180	-170	0.3	
6	FL-62-90	Ø90	-62	0.3	
7	FL-330-300	300x300	-330	0.5	
8	FL-140-180	Ø180	-140	0.3	
9	FL-48-64.2	Ø64.2	-48	0.3	

### ◎ **Condenser Fresnel Lens(Glass-silicon materials)**

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	CG200-780	780x480 (per 150x150mm)	200		5x3 array
2	CG48-740	740x500 (per 40x40mm)	48	0.3	18x12 array
3	CG62-496	496x496 (per 60x60mm)	62	0.3	8x8 array
4	CG140-496	496x496 (per 120x120mm)	140	0.3	4x4 array
5	CG127-1100	1100x200 (per 90x90mm)	127	0.3	12x2 array
6	CG114-1100	1100x200 (per 90x90mm)	114	0.3	12x2 array

7	CG63-620	620x420 (per 50x50mm)	63	0.3	12x8 array
8	CG300-496	496x496 (per 239x239mm)	300		2x2 array
9	CG350-1040	1040x790 (per 250x250mm)	350	0.5	4x3 array
10	CG256-1010	1010x1010 (per 240x240mm)	256	1	4x4 array
11	CG170-740	740x500 (per 120x120mm)	170	0.3	4x6 array
12	CG373-1010	1010x1010 (per 244x244mm)	373.3	1	4x4 array
13	CG280-1170	1170x980 (per 190x190mm)	280		6x5 array
14	CG450-960	960x960 (per 310x310mm)	450		3x3 array
15	CG350-960	960x960 (per 230x230mm)	350		4x4 array
16	CG450-1010	1010x1010 (per 325x325mm)	450		3x3 array
17	CG140-596	596x456 (per 70x70mm)	140		8x6 array
18	CG361-1010	1010x1010 (per 244x244mm)	361		4x4 array
19	CG530-1701	1701x1041 (per 330x330mm)	530		5x3 array

### © Condenser Fresnel Lens(PMMA material)

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	CP300-230	238x238	300	0.5	
2	CP248-230	238x238	248	1	
3	CP330-280	280x280	330	0.5	
4	CP220-280	280x280	220	0.5	
5	CP250-270	270x250	250	1	
6	CP250-250	270x254	250	1	
7	CP350-300	310x310	350	1	
8	CP350-330C	340x340	350	1	
9	CP350-330B	358x350	350	1	
10	CP350-330	336x350	350	1	
11	CP250-25249	268x249	250	1	
12	CP250-25248	268x256	250	1	
13	CP265-25249	268x249	265	1	
14	CP265-25249C	268x257	265	1	
15	CP265-25249B	268x265	265	1	
16	CP250-195	201x201	250	1	
17	CP150-M1212	1212x132 (per 120x120mm)	150	1	10x1 array
18	CP182-235	235x235	182	0.5	

### © DIY-projector Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	PS220-178	295x178	220	0.5	
2	PS320-180	295x180	320	0.5	
3	PH200-84	120x84	200	0.3	
4	PH120-90	108.4x90	120	0.3	
5	PS140-108	175x108	140	0.3	
6	PS210-102	184x102	210	0.5	
7	PS210-118	164x118	210	0.5	
8	PS135-118	164x118	135	0.3	

## © The Projector With A Fresnel Lens Reflex (OHP)

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	OP365-305	305x305	365/365	0.4	
2	OP368-305	368/368	305x305	0.5	
3	OP368-305W	368/368	305x305	0.5	
4	OP182/406	182/406	310x310	0.5	
5	OP182/406-2	182/406	285x285	0.5	
6	OP214/326	214/326	310x310	0.5	

## © Reflecting Wide-Angle Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	RN350-40	60x40	350	0.3	
2	RN350-44	44x29	350	0.35	
3	RN280-38	117.8x37.8	280	0.3	
4	RN350-54	54x35	350	0.35	
5	RN350-53	84.5x53.6	350	0.3	
6	RN350-30	64.5x29.5	350	0.35	
7	RN350-47	74x47	350	0.3	
8	RN350-B47	74x47 , Ø30	350	0.35	
9	RT350-49	65.3x49.5	350	0.3	
10	RT350-R49	65.3x49.5	350	0.3	
11	RN175-283	283x283	175	0.4	
12	RN145-298	298x298	145	0.5	
13	RP375-268	292x292	375	0.4	
14	RN145-280	280x280	145	0.4	

## © Reversing The Wide-Angle Mirror

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	PR350-199	252x199	350	0.3	MATERIAL (PVC)

## © LED series Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	LS15-04	Ø28	15	0.4	
2	LS18-03	Ø38	18	0.3	
3	LS21-03	Ø38	21	0.3	
4	LS2705-05	Ø51	27.5	0.5	
5	LS35-05	Ø52	35	0.5	
6	LS15-03	Ø21	15	0.3	
7	LM24-026	Ø62	24	0.26	
8	LS35-05D	Ø80	35	0.5	
9	LM35-05	44x42	35	0.5	
10	LM24-03	152.3x152.3	24	0.3	Ø52, 6 array
11	LS150-035S	84.2x57	150	0.35	
12	LM20-01B	Ø162	20	0.1	Ø30, 21 array
13	LM20-01M	Ø162	20	0.1	Ø30, 11 array
14	LM20-01S	Ø162	20	0.1	Ø30, 7 array
16	LM20-01V	Ø210	20	0.1	Ø42, 7 array Ø35, 6 array Ø45, 6 array
17	LS2605-02	Ø44.8	26.5	0.2	
18	LS52-04	26.5x19.5	52	0.4	
19	LM35-05B	100.5x51.5	35	0.5	Ø50, 2 array
20	LM6704-025		67.4/134.8	0.25	

21	LM83-025	Ø268.5	83/125	0.25	
22	LS150-035	Ø298	150	0.35	
23	LS135-88	Ø88	135	0.3	
24	LS140-198	Ø198	140	0.5	
25	LS185-198	Ø198	185	0.3	
26	LS170-198	Ø198	170	0.3	
27	LS120-200	Ø200	120	0.3	
28	LS185-200	Ø200	185	0.3	
29	LS140-200	Ø200	140	0.3	
30	LS220-196	Ø196	220	0.3	
31	LS210-196	Ø196	210	0.5	
32	LS220-197	Ø197.5	220	0.3	
33	LS230-180	Ø180	230	0.5	
34	LS240-180	Ø180	240	0.5	
35	LS120-170	Ø170	120	0.3	
36	LS140-165	Ø165	140	0.3	
37	LS230-150	Ø150	230	0.5	
38	LS130-147	Ø147	130	0.3	
39	LS406-240	Ø240	406	0.5	
40	LS600-310	Ø310	600	0.5	
41	LS200-205	Ø205	200	0.5	
42	LS235-205	Ø205	235	0.5	
43	LS200-260	Ø260	200	0.5	
44	LS235-260	Ø260	235	0.5	
45	LS235-250	Ø250	235	0.5	
46	LS326-250	Ø250	326	0.5	
47	LS140-88	(22+88)x72	140	0.5	
48	LS90-155	(58+155)x100	90	0.5	
49	LS135-155	(59+155)x100	135	0.3	
50	LS90-125	(64+125)x90	90	0.5	
51	LM185-155	155x85	185	0.3	85x77.5 , 2 array
52	LS200-115	115x115 , Ø150	200	0.3	
53	LS210-252	252x137	210	0.5	
54	LS120-75	75.5x75.5	120	0.3	
55	LS120-138	138x120	120	0.3	

### ©PIR series Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Length(m)	Angle
1	PD55-14006		5.5	6	140
2	PD60-12008		6	8	120
3	PD105-10010S		10.5	10	100
4	PF08-10B	Ø12	8	10	
5	PF20-10WS	Ø20	20	10	
6	PF20-10B	Ø20	20	10	
7	PF28-10W	Ø20	28	10	
8	PF36-10W	Ø20	36	10	
9	PF20-10W	Ø22.3	20	10	
10	PD15-14006		15	6	140
11	PD15-36007		15	7	360
12	PD105-10010	Ø23.4	10.5	10	100
13	PF30-12012C		30	12	120
14	PF30-12012S		30	12	120
16	PF20-06015	Ø35	20	15	60

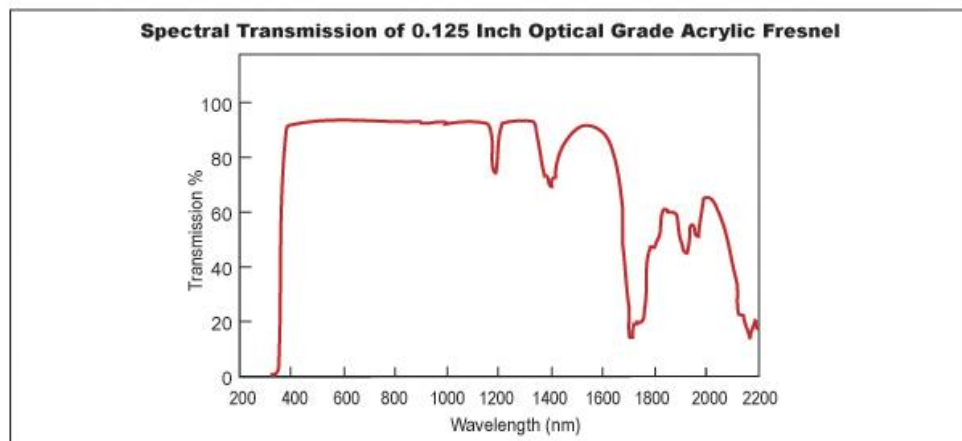
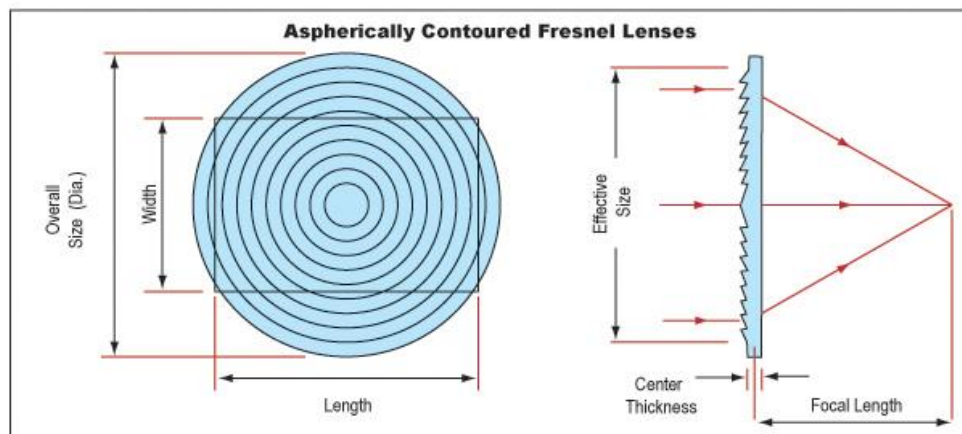
17	PF297-79810	58x45	29.7	10	79.8
18	PF30-12012P	59.5x39	30	12	120
19	PF30-12012	59.5x39	30	12	120
20	PF31-12012		31	12	120
21	PD06-12005		6	5	120
22	PD75-12005		7.5	5	120
23	PD75-12005A		7.5	5	120
24	PD75-12005B		7.5	5	120
25	PD75-12005C		7.5	5	120
26	PD06-12002B		6	2	120
27	PD12-12010		12	10	120
28	PF20-10	Ø22	20	10	
29	PD15-36010P		15	10	360
30	PD15-36010		15	10	360
31	PD05-12005W / B		5	5	120
32	PD09-12008W		9	8	120
33	PD09-12008B		9	8	120
34	PF13	25x23	13		
35	PF28	Ø19.05	28.7		
36	PD116-12010		11.65	10	120
37	PF142	29x25	14.2		
38	PF305-9012		30.5	12	90
39	PF23-11012		23	12	110
40	PF305-8324		30.5	24	83
41	PF22-10010		22	10	100
42	PF20-8907		20	7	89
43	PD30-0000		30		
44	PD175-36005		17.5	5	360
45	PD15-36005A		15	5	360
46	PD105-10005		10.5	5	100
47	PD12-11612		12	12	116
48	PD50-12008		50	8	120
49	PD15-12010		15	10	120
50	PF297-79810R	56.8x44.6	29.7	10	79.8
51	PD105-10010F	23.3x23.3	10.5	10	100
52	PF25-12012		25	12	120
53	PF25-9010		25	10	90
54	PD06-12008		6	8	120
55	PF16-12012		16	12	120
56	PD05-9005		5	5	90
57	PF23-6020		23	20	60
58	PD11-12010		11	10	120
59	PD15-36005B		15	5	360
60	PF25-11012		25	12	110
61	PD96-8010		9.6	10	80
62	PF20-3027		20	27	30
63	PF25-10012		25	12	100
64	PD23-6020		23	20	60
65	PD10-9005		10	5	90
66	PD				
67	PF21-12015		21	15	120
68	PD25-10007		25	7	100
69	PD30		30		

70 PF18-6015	18	15	60
71 PF022-120015	2.2	1.5	120
72 PF048-10006	4.8	6	100
73 PD12-11607	12	7	116
74 PD			
75 PD30-10010	30	10	100
76 PD115-12010	11.5	10	120
77 PD30-36010	30	10	360
78 PD06-6005	6	5	60
79 PD076-9005	7.6	5	90
80 PF25-3016	25	16	30

### Specification Table

<b>Focal Length Tolerance</b>	±5%
<b>Thickness Tolerance</b>	±40%
<b>Transmission</b>	92% from 400-1100nm
<b>Maximum Service Temperature</b>	80°C (176°F)
<b>Refractive Index</b>	1.49n <sub>d</sub>
<b>Notes</b>	*Designed for finite conjugates of 4f (grooved side) and 4f/3 (flat side).

### Technical Images



If you need more information,  
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