

Tel: +82-70-7605-1652

Fax: +82-70-7605-0020

E-mail: ashton@fresnelfactory.com

Fresnel Factory

© Common Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	FL06-12	Ø12	6	0.4	
2	FL12-24	Ø24	12	0.3	
3	FL16-30	Ø30	16	0.5	
4	FL28-45	Ø45	28	0.3	
5	FL35-115	115*140	35	0.3	
6	FL40-100	Ø100	40	0.3	
7	FL50-100	Ø100	50	0.3	
8	FL55-120	Ø120	55	0.3	
9	FL63-110	Ø110	63	0.3	
10	FL70-100	Ø100	70	0.3	
11	FL74-210	Ø210	74	0.3	
12	FL80-160	Ø160	83	0.5	
13	FL90-114	114*80	90	0.3	
14	FL90-150	Ø150	90	0.5	
15	FL100-180	Ø180	100	0.3	
16	FL100-230	230*230	100	0.5	
17	FL120-200	Ø200	120	0.3	
18	FL120-210	Ø210	120	0.5	
19	FL130-140	140*100	130	0.3	
20	FL135-120	120x100	135	0.3	
21	FL135-230	Ø230	135	0.5	
22	FL140-150	Ø150	140	0.3	
23	FL140-250	Ø250	140	0.5	
24	FL148-120	120x90	148	0.3	
25	FL156-240	Ø240	156	0.3	
26	FL160-130	Ø130	160	0.3	
27	FL170-220	Ø220	170	0.3	
28	FL170-140	140*100	170	0.3	
29	FL185-230	Ø230	185	0.3	
30	FL185-240	Ø240	185	0.5	
31	FL200-285	Ø285	200	0.5	
32	FL210-160	Ø160	210	0.3	
33	FL210-230	230*230	210	0.5	
34	FL220-220	220x170	220	0.5	
35	FL220-300	Ø300	220	0.3	
36	FL235-300	Ø300	235	0.5	
37	FL250-240	Ø240	250	0.5	
38	FL260-160	Ø160	260	0.3	
39	FL310-230	230x170	310	0.3	
40	FL326-180	Ø180	326	0.3	
41	FL370-230	Ø230	370	0.5	
42	FL400-300	Ø300	400	0.3	
43	FL457-260	260*210	457	0.2	
44	FL500-510	510*300	500	0.125	
45	FL510-375	375*260	510	0.5	
46	FL600-320	Ø320	600	0.5	
47	FL700-780	780*780	700	0.2	
48	FL900-300	Ø300	900	0.3	
49	FL1000-256	Ø256	1000	0.5	
50	FL2000-300	Ø300	2000	0.3	

◎ 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	LF890-813	812.8x812.8	890	0.5	Condenser
3	LF1000-1100	1100*1100	1000	0.5	Rear Projector
4	LF700-780	780x780	700	0.2	Rear Projector

◎ Linear Fresnel Lens					
No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	FLL12-30	30*800	12	0.3	
2	FLL15-40	40*800	15	0.5	
3	FLL18-50	50*800	18	0.5	
4	FLL25-65	65*800	25	0.5	
5	FLL30-80	80*800	30	0.5	
6	FLL40-110	110*800	40	0.5	
7	FLL50-30	30*800	50	0.5	
8	FLL60-150	150*800	60	0.5	
9	FLL70-200	200*800	70	0.5	
10	FLL80-200	200*800	80	0.5	
11	FLL90-200	200*800	90	0.5	
12	FLL100-200	200*800	100	0.5	
13	FLL150-50	50*800	150	0.5	
14	FLL1500-1000	1000*500	1500	0.5	

◎ Array Fresnel Lens					
No.	Description	Size H x L (mm)	Focal Length (mm)	lens array size(mm)	etc.
1	FM08-684	684*385.34	8.028		426*240 lens array
2	FM29-679	679.77*380.97	29.88		91*51 lens array
3	LS200MK	482*298		11.6*10.8	48*28 lens array

◎ Minus Focus Fresnel Lens					
No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	FLM300-240	240*240	-300	0.5	
3	FLM220-300	300*300	-220	0.5	
4	FLM63-75	Ø75	-63	0.3	
5	FLM170-180	Ø180	-170	0.3	
6	FLM62-90	Ø90	-62	0.3	
7	FLM330-300	300*300	-330	0.5	
8	FLM140-180	Ø180	-140	0.3	
9	FLM05-150	150*100	-5	0.5	

◎ Condenser Fresnel Lens(Silicone-Glass materials)					
No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	thickness
1	CG1300-1010	1010x1010 (per 244x244mm)	1300		4
2	CG93.5-830	830x630 (per 50x50mm)	93.5		4

◎ 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	CP330-280	280x280	330	0.5	
3	CP350-300	310x310	350	1	
4	CP350-330C	340x340	350	1	
5	CP265-250	Ø240	265	0.5	
6	CP406-260	Ø250	406	0.5	
7	CP450-230	Ø200	450	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	

© 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	LM20-01B	Ø162	20	0.1	Ø30, 21 array
4	LM20-01M	Ø162	20	0.1	Ø30, 11 array
5	LM20-01S	Ø162	20	0.1	Ø30, 7 array
6	LM20-01V	Ø210	20	0.1	Ø42, 7 array Ø35, 6 array Ø45, 6 array
7	LS21-03	Ø38	21	0.3	
8	LM24-026	Ø62	24	0.26	
9	LM24-03	152.3x152.3	24	0.3	Ø52, 6 array
10	LS2605-02	Ø44.8	26.5	0.2	
11	LS2705-05	Ø51	27.5	0.5	
12	LS35-05	Ø52	35	0.5	
13	LS35-05D	Ø80	35	0.5	
14	LM35-05	44x42	35	0.5	
15	LM35-05B	100.5x51.5	35	0.5	Ø50, 2 array
16	LS52-04	26.5x19.5	52	0.4	
17	LM6704-025		67.4/134.8	0.25	
18	LM83-025	Ø268.5	83/125	0.25	
19	LS90-125	(64+125)x90	90	0.5	
20	LS90-155	(58+155)x100	90	0.5	
21	LS120-75	75.5x75.5	120	0.3	
22	LS120-138	138x120	120	0.3	
23	LS120-170	Ø170	120	0.3	
24	LS120-200	Ø200	120	0.3	
25	LS130-147	Ø147	130	0.3	
26	LS135-88	Ø88	135	0.3	
27	LS135-155	(59+155)x100	135	0.3	
28	LS140-88	(22+88)x72	140	0.5	
29	LS140-198	Ø198	140	0.5	
30	LS140-165	Ø165	140	0.3	
31	LS140-200	Ø200	140	0.3	
32	LS150-035	Ø298	150	0.35	
33	LS150-035S	84.2x57	150	0.35	
34	LS170-198	Ø198	170	0.3	
35	LS185-198	Ø198	185	0.3	
36	LS185-200	Ø200	185	0.3	
37	LM185-155	155x85	185	0.3	85x77.5 , 2 array
38	LS200-205	Ø205	200	0.5	
39	LS200-115	115x115 , Ø150	200	0.3	
40	LS200-260	Ø260	200	0.5	
41	LS210-196	Ø196	210	0.5	
42	LS210-252	252x137	210	0.5	
43	LS220-196	Ø196	220	0.3	
44	LS220-197	Ø197.5	220	0.3	

45	LS230-150	Ø150	230	0.5	
46	LS230-180	Ø180	230	0.5	
47	LS235-205	Ø205	235	0.5	
48	LS235-250	Ø250	235	0.5	
49	LS235-260	Ø260	235	0.5	
50	LS240-180	Ø180	240	0.5	
51	LS326-250	Ø250	326	0.5	
52	LS406-240	Ø240	406	0.5	
53	LS600-310	Ø310	600	0.5	

© PIR series Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Length(m)	Angle
1	PD55-14006	Ø13.6	5.5	6	140
2	PD60-12008	Ø12.7	6	8	120
3	PD105-10010S	23.4*23.4	10.5	10	100
4	PF08-10B	Ø12	8	10	30
5	PF20-10WS	Ø20	20	10	120
6	PF20-10B	Ø20	20	10	60
7	PF28-10W	Ø20	28	10	60
8	PF36-10W	Ø20	36	10	60
9	PF20-10W	Ø22.3	20	10	60
10	PD15-14006	Ø28	15	6	140
11	PD15-36007	Ø49	15	7	360
12	PD105-10010	Ø23.4	10.5	10	100
13	PF30-12012C	43.2*19.7	30	12	120
14	PF30-12012S	46*20	30	12	120
15	PF20-06015	Ø35	20	15	60
16	PF297-79810	58x45	29.7	10	79.8
17	PF30-12012P	59.5x39	30	12	120
18	PF30-12012	59.5x39	30	12	120
19	PF31-12012	52*60	31	12	120
20	PD06-12005	Ø16	6	5	120
21	PF03-3025	Ø17	19	16	30
22	PD75-12005		7.5	5	120
23	PD75-12005A	12.71	7.5	5	120
24	PD75-12005B	19.77	7.5	5	120
25	PD75-12005C	19	7.5	5	120
26	PD06-12002B	Ø13.34	6	2	120
27	PD12-12010	24*24	12	10	120
28	PF20-10	Ø22	20	10	60
29	PD15-36010P	Ø41.5	15	10	360
30	PD15-36010	Ø43	15	10	360
31	PD05-12005W / B	Ø11.8	5	5	120
32	PD09-12008W	Ø17.8	9	8	120
33	PD09-12008B	Ø17.8	9	8	120
34	PF28	Ø19.05	28.7	10	60
35	PD116-12010	Ø23.3	11.65	10	120
36	PF305-9012	60.7*42.4	30.5	12	90
37	PF23-11012	56.7*35.7	23	12	110
38	PF305-8324	61*42.7	30.5	24	83
39	PF22-10010	57*36	22	10	100
40	PF20-8907	39*25	20	7	89
41	PD30-0000		30		
42	PD175-36005	Ø45	17.5	5	360
43	PD15-36005A	Ø44.5	15	5	360
44	PD105-10005	Ø22.7	10.5	5	100
45	PD12-11612	Ø23.5	12	12	116
46	PD50-12008	Ø100	50	8	120
47	PD15-12010	Ø35.7	15	10	120
48	PF297-79810R	56.8x44.6	29.7	10	79.8

49	PD105-10010F	23.3x23.3	10.5	10	100
50	PF25-12012	92.3*40	25	12	120
51	PF25-9010	53.5*34	25	10	90
52	PD06-12008	Ø14	6	8	120
53	PD06-12008TOP	Ø14	6	8	120
54	PF16-12012	62*25	16	12	120
55	PD05-9005	Ø17	5	5	90
56	PF23-6020	39*25	23	20	60
57	PD11-12010	Ø23	11	10	120
58	PD15-36005B	Ø44.5	15	5	360
59	PF25-11012		25	12	110
60	PD96-8010	Ø12.5	9.6	10	80
61	PF20-3027		20	27	30
62	PF25-10012	43.3*24.5	25	12	100
63	PD23-6020	35*25	23	20	60
64	PD	64.83*59.7			
65	PF21-12015P	76*36	21	15	120
66	PD25-10007	34.9*20	25	7	100
67	PD30	62.2*52/46.2	30		
68	PD12-11607	Ø23.9	12	7	116
69	PD-C				
70	PD30-10010		30	10	100
71	PD115-12010	Ø26	11.5	10	120
72	PD115-12010_HAT	Ø26	11.5	10	120
73	PD30-36010	76.58	30	10	360
74	PD06-6005	Ø11.5	6	5	60
75	PD076-9005	Ø20.7	7.6	5	90
76	PD03-12005	Ø9.5	3	5	120
77	PD04-6005	Ø10.1	8	3	60
78	PD04-7004	18.7*18.7	4	5	70
79	PD08-6003		8	3	60
80	FD08-10005		8	5	100
81	FD08-110AP		8	12	110

◎ VR Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
1	VR80-50	Ø50	80	0.3	
2	VR90-70	70*70	90	0.3	

◎ Prism Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
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<http://www.fresnelfactory.com/prism-fresnel-lens-en.html>

◎ Lenticular Fresnel Lens

No.	Description	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.
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<http://www.fresnelfactory.com/lenticular-fresnel-lens-en.html>

◎ Solis - Daylight Film

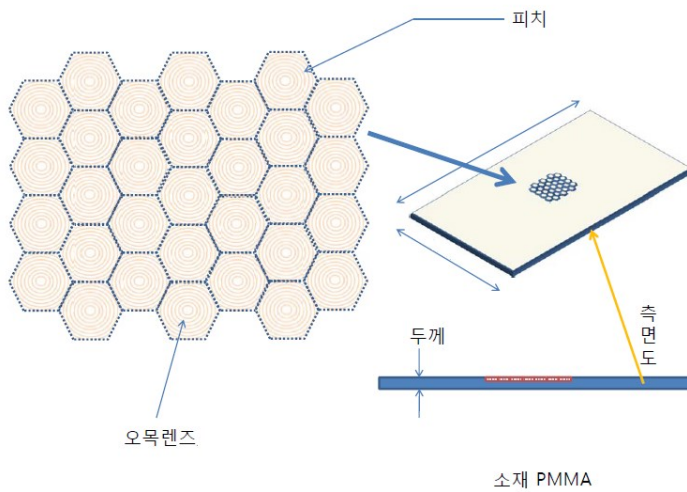
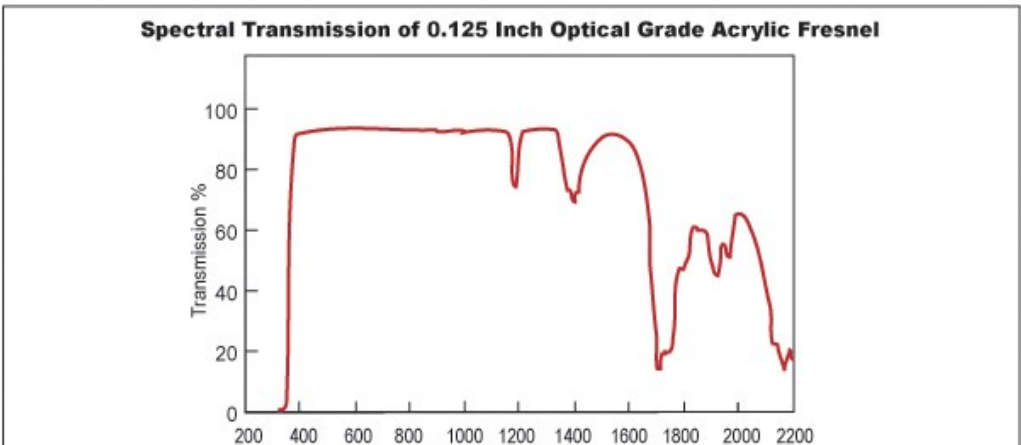
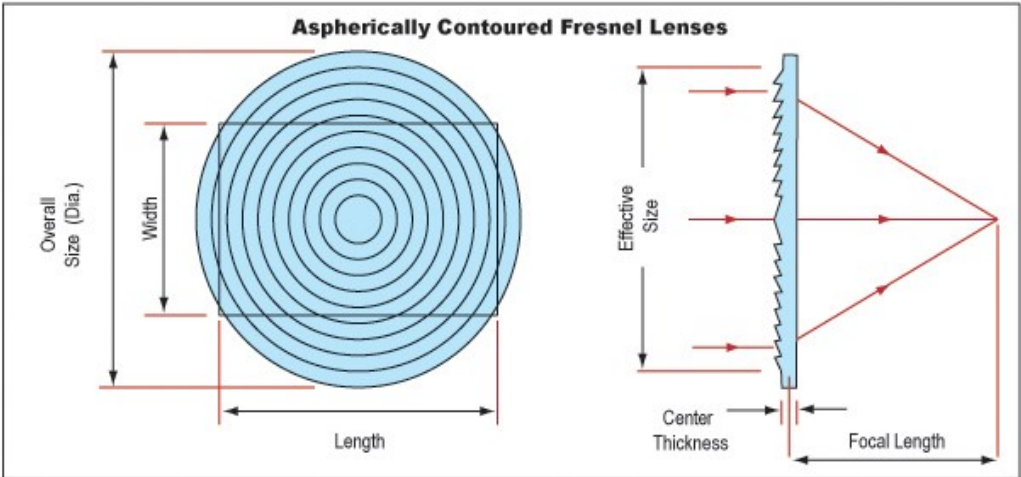
No.	Description	Size H x L (mm)	Light energy saving	Daylighting area	illumination
1	SL3402	1500*1000	30%	250%	350lx
2	SL5034	1500*1000	30%	250%	350lx

<http://soliswindowfilm.com>

Specification Table

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

Technical Images



Please send Email to ashton@fresnelfactory.com

Optical designing and tooling a mold according to customer's needs is always welcome for us.

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