



A.L.P.
ALP-23

Female Conical Circular Base Prisms

ALP-23

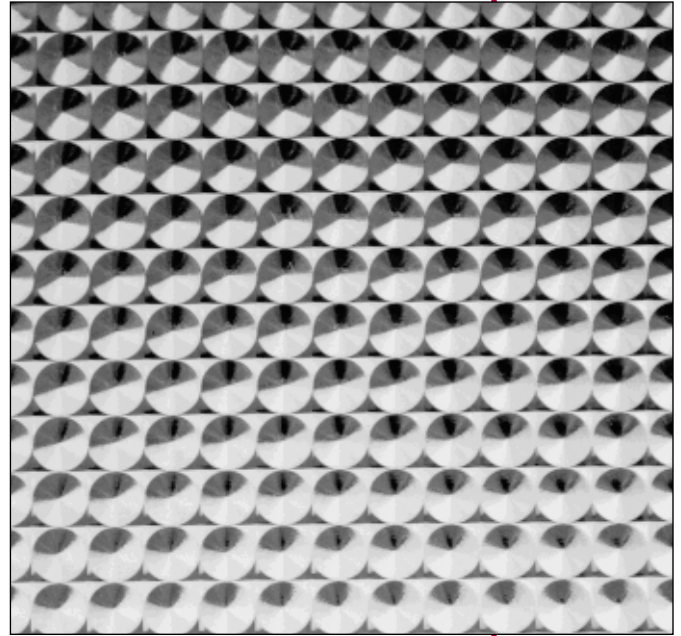
Description

ALP-23 acrylic lenses have **female conical circular** base prisms of 3/8" diameter running parallel and perpendicular to the length and width of the panel. The female arcuate pyramids form a network which provides the **maximum resistance to sagging**.

Its uniform prismatic lens currently in production and being offered to the lighting industry. Testing to date shows **higher** efficiencies (72% luminaire efficiency) **than the Pattern 12** lens which has been the benchmark for judging lens efficiencies for years.

A truss-shaped prism design means **no sagging** lenses. The unique combination of two prism shapes that keep the **light distribution uniform** and the lens definition you want virtually eliminates annoying lamp images.

The .100" nominal overall thick lenses have been designed to span 24" wide openings with superior sag resistance compared to 1/8" nominal thickness Pattern 12 type parts. This is accomplished by the **unique prism design** which actually provides approximately 10% more material by weight than commodity 1/8" thick cone prisms.



ALP-23

Catalog Number	Description	Thickness	Dimension	Carton Quantity	Carton Weight
Acrylic Panels					
ALP23 14CA	Acrylic	.100"	11-3/4" x 47-3/4"	60	110
ALP23 22CA	Acrylic	.100"	23-3/4" x 23-3/4"	60	110
ALP23 24CA	Acrylic	.100"	23-3/4" x 47-3/4"	30	110
ALP23 14CA125	Acrylic	.125"	11-3/4" x 47-3/4"	50	122
ALP23 22CA125	Acrylic	.125"	23-3/4" x 23-3/4"	50	122
ALP23 24CA125	Acrylic	.125"	23-3/4" x 47-3/4"	25	122

ALP-23 Profile

section

A (thickness): .100", .125"

Nominal Sizes

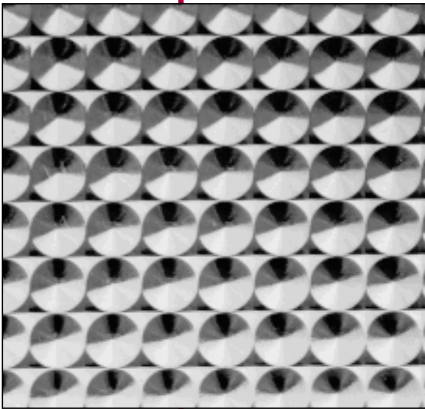
1' x 4'
2' x 2'
2' x 4'

Colors and Materials

Clear
Acrylic

**For more information, or to place an order,
contact Customer Service.**

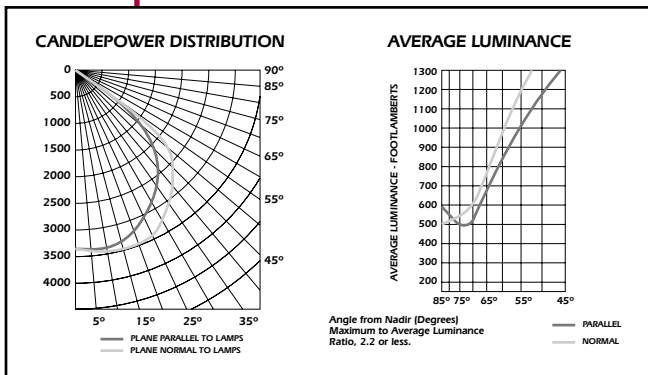
ALP-23 PHOTOMETRICS



Specifications

Fixture enclosure shall be ALP-23 clear acrylic as manufactured by A.L.P. Lighting Components, Inc. Prisms shall be 3/8" diameter circular based female cones interspersed with female arcuate triangles. In a nominal 2' x 4' fixture with four 40 watt lamps, each rated at 3200 lumens, minimum luminaire efficiency shall be 72%.

CLEAR Building Acoustics and Lighting Laboratories, Inc. Report No. 3413.0, 9/19/83. ALP-23 Clear Acrylic Lens, 100". Nadir Candlepower 3416.



COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

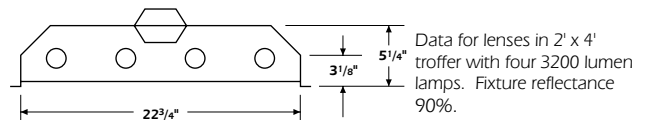
FLOOR	20%						
	80%				50%		
CEILING	70%	50%	30%	10%	50%	30%	10%
1	.83	.80	.77	.74	.75	.73	.71
2	.76	.71	.67	.63	.67	.64	.61
3	.71	.64	.58	.54	.60	.56	.53
4	.65	.57	.51	.47	.54	.50	.46
5	.60	.51	.45	.40	.48	.43	.39
6	.55	.46	.39	.35	.44	.38	.34
7	.51	.41	.35	.30	.39	.34	.30
8	.46	.37	.30	.26	.35	.30	.26
9	.43	.33	.27	.23	.31	.26	.22
10	.40	.30	.24	.20	.29	.23	.20

To determine Coefficients of Utilization for 2-lamp luminaire, multiply figures shown by 1.1. For 3-lamp luminaire, multiply by 1.05.

Spacing to Mounting Height Ratio 1.5.

EFFICIENCY	
DEGREE	PERCENT
0-40°	37.7%
0-60°	64.9%
0-90°	74.7%

Commercially Available Troffer



Visual Comfort Probability Table

CLEAR ACRYLIC									
From B.A.L.L. Report No. 3413									
100 F.C. ROOM		REFLECTANCES 80/50/20							
		LENGTHWISE				CROSSWISE			
W	L	8.5	10	13	16	8.5	10	13	16
20	20	58	60	66	74	55	58	63	70
20	30	54	56	60	64	49	52	57	60
20	40	52	53	56	59	47	49	51	54
20	60	50	51	53	56	45	46	48	51
30	20	60	62	65	71	57	60	63	68
30	30	54	56	57	61	51	53	55	58
30	40	52	53	54	56	48	50	51	53
30	60	50	51	51	53	46	47	47	49
30	80	49	50	50	51	46	46	45	47
40	20	62	64	66	71	60	62	65	69
40	30	56	58	58	61	54	56	56	59
40	40	53	54	55	56	50	51	52	53
40	60	51	51	51	52	48	48	47	49
40	80	50	50	50	50	47	47	45	46
40	100	49	49	49	50	47	46	45	45
60	30	58	59	60	61	56	58	58	60
60	40	54	55	55	56	52	53	53	54
60	60	51	52	51	52	49	49	48	49
60	80	50	50	49	50	48	48	46	46
60	100	49	50	48	49	47	47	45	45
100	40	58	58	58	59	56	57	56	58
100	60	54	55	54	55	52	52	51	52
100	80	52	53	51	52	51	51	48	49
100	100	51	51	50	50	50	49	47	47



A.L.P.
LIGHTING COMPONENTS, INC.
CORPORATE HQ: CHICAGO, IL U.S.A.
WEB SITE: WWW.ALP-LTG.COM

CENTRAL (Chicago) — (877) ALP-LTG1 • FAX: (800) 438-2500
WEST (Los Angeles) — (800) 545-6176 • FAX: (800) 545-6186
SOUTHEAST (Atlanta) — (404) 352-2110 • FAX: (800) 545-6192
EAST (Philadelphia) — (856) 486-0700 • FAX: (800) 545-6192

© 1999 A.L.P. LIGHTING COMPONENTS, INC., PRINTED IN THE U.S.A., 23 108