



A.L.P.
ALP-15
Female Conical Prismatic Lens

ALP-15

General Information

ALP-15 is an **extruded lens** with a **large 3/8" square pattern** design that renders a **bold, well ordered look** and hides the lamps from direct view. The recessed female conical pattern **provides maximum strength** to weight ratios for panels up to 48" square.

ALP-15 is an ideal prismatic lens where the **bolder prism pattern** is desired.

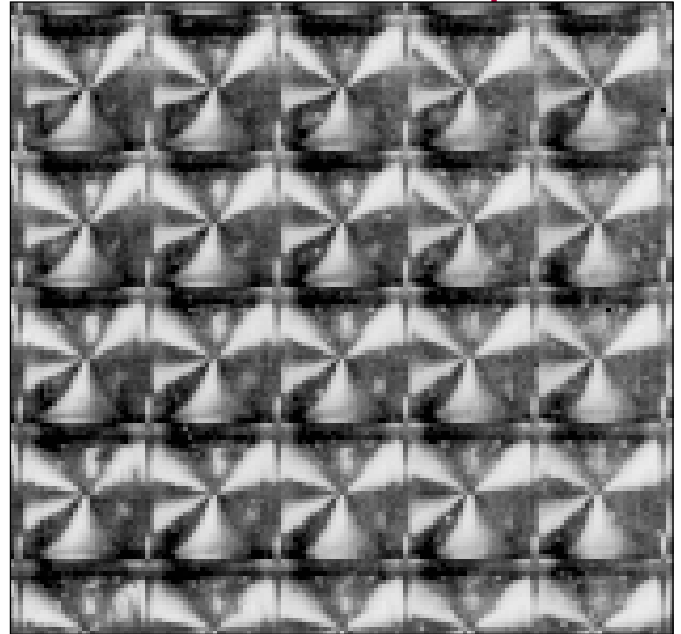
Approved by Major Building Codes

A.L.P. lighting panels meet all requirements for approval of **acrylic plastic for use as light diffusers and lenses as specified in building codes** throughout the country.

A typical approval (by State of Michigan) attests to conformance of acrylic material from which an A.L.P. lens is produced, to standards for burn rates and smoke density tested in accordance to ASTM standards. Approvals include use for such applications as schools, hospitals and nursing homes.

A.L.P. Acrylic Material Meets or Exceeds Recognized Standards

The acrylic used in A.L.P. prismatic lighting panels is 100% high molecular weight virgin material meeting grade 8 requirements as set forth in table 2 of ASTM D-788-69a. It exceeds IES-NEMA-SPI standards for acrylic material by 100%. Under normal interior conditions these panels will perform satisfactorily for 20 years.



ALP-15

ALP-15 Profile

section

A (thickness): .200"

Nominal Sizes

1' x 4'
 2' x 2'
 2' x 4'
 3' x 3'
 4' x 4'
 4' x 8'

Colors and Materials

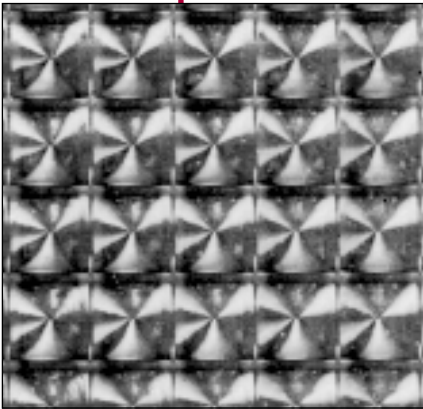
Clear
 White
 Acrylic

CATALOG NUMBER	DESCRIPTION	THICKNESS	DIMENSIONS
Acrylic Panels			
ALP15 14CA	Clear	.200"	11-3/4" x 47-3/4"
ALP15 22CA	Clear	.200"	23-3/4" x 23-3/4"
ALP15 24CA	Clear	.200"	23-3/4" x 47-3/4"
ALP15 33CA*	Clear	.200"	35-3/4" x 35-3/4"
ALP15 48CA*	Clear	.200"	48" x 96"
ALP15 50X51CA*	Clear	.200"	50" x 51"

Other available color: White (W)
 Minimum quantities for colored lenses may apply, contact A.L.P. for details.
 *Shipment of oversize lenses are subject to a special packaging charge.
 Special sizes are available, contact A.L.P.

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

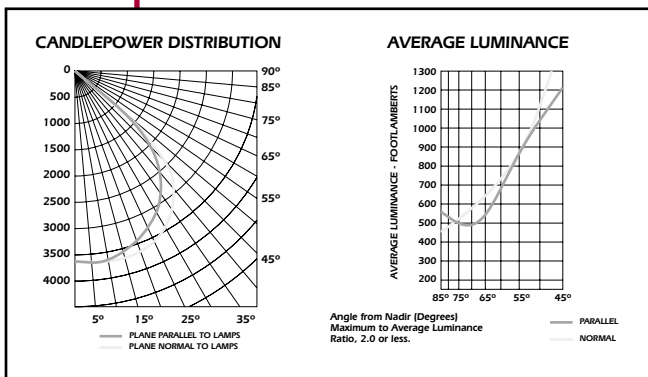
ALP-15 PHOTOMETRICS



Specifications

ALP-15 lenses shall be clear acrylic as manufactured by A.L.P. Lighting Components, Inc. Prisms shall be 3/8" square based female cones aligned parallel and perpendicular to the length and width of the panel. Minimum prism depth shall be .160". In a nominal 2' x 4' fixture with four, 40 watt lamps each rated at 3200 lumens, minimum luminaire efficiency shall be 63%. Maximum average luminance in the 65° - 85° zone shall be 650 footlamberts. The ratio of maximum to average luminance shall be 2.3 or less at 0° nadir.

CLEAR Building Acoustics and Lighting Laboratories, Inc. Report No. 5096.0, 7/7/87. ALP-15 Clear Acrylic Lens .200". Nadir Candlepower 3647.



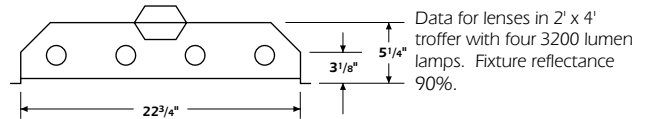
COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

FLOOR	20%						
	80%				50%		
CEILING							
WALLS	70%	50%	30%	10%	50%	30%	10%
1	.74	.72	.69	.67	.67	.66	.64
2	.69	.64	.61	.57	.61	.58	.55
3	.64	.58	.53	.50	.55	.52	.49
4	.59	.52	.47	.43	.50	.46	.43
5	.55	.47	.42	.38	.45	.41	.37
6	.51	.43	.37	.34	.41	.36	.33
7	.47	.39	.33	.30	.37	.33	.29
8	.43	.35	.29	.26	.33	.29	.26
9	.40	.31	.26	.23	.30	.26	.22
10	.37	.28	.23	.20	.27	.23	.20

To determine Coefficients of Utilization for 2-lamp luminaire, multiply figures shown by 1.12. For 3-lamp luminaire, multiply by 1.06. I.E.S. Spacing Criteria End 1.3, Diagonal 1.3, Cross 1.4.

EFFICIENCY	
DEGREE	PERCENT
0-40°	38.2%
0-60°	59.0%
0-90°	66.8%

Commercially Available Troffer



Visual Comfort Probability Table

CLEAR ACRYLIC									
From B.A.L.L. Report No. 5096									
100 F.C. ROOM		REFLECTANCES 80/50/20							
		LENGTHWISE				CROSSWISE			
W	L	8.5	10	13	16	8.5	10	13	16
20	20	65	69	76	79	63	68	74	76
20	30	58	62	70	71	57	61	68	69
20	40	55	58	63	66	55	57	61	63
20	60	52	55	59	62	53	55	57	59
30	20	66	70	75	78	65	68	73	76
30	30	58	62	66	70	57	61	65	68
30	40	54	57	61	64	54	57	59	62
30	60	51	53	56	59	52	54	55	57
30	80	50	52	54	56	52	53	53	55
40	20	67	71	75	79	66	70	74	77
40	30	59	63	67	70	59	62	65	68
40	40	55	57	61	64	55	57	59	62
40	60	52	53	55	58	53	54	55	57
40	80	50	51	53	55	52	53	53	54
40	100	49	50	51	53	51	52	52	53
60	30	61	64	67	70	60	63	66	69
60	40	56	58	60	63	56	58	59	62
60	60	52	54	55	58	53	54	54	56
60	80	50	51	52	54	52	53	52	54
60	100	49	50	50	52	51	52	51	52
100	40	60	61	62	65	60	61	62	64
100	60	55	56	56	59	56	57	56	58
100	80	53	54	53	55	54	55	53	55
100	100	51	52	51	53	53	53	52	53



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