

Aristolite is a formed prismatic diffuser designed for surface mount fluorescent light fixtures.

It features:

- Made in Australia
- Extruded & roll formed profile in 100% acrylic
- Sonically welded end caps
- Available in clear Y19 prismatic
- Diffusers cut to length to suit requirements
- Suitable for T5 and T8 Lamps

Properties

Acrylic material used in Aristolite meets or exceeds recognised standards.

Under normal interior conditions these lenses will perform satisfactorily for 20 years.

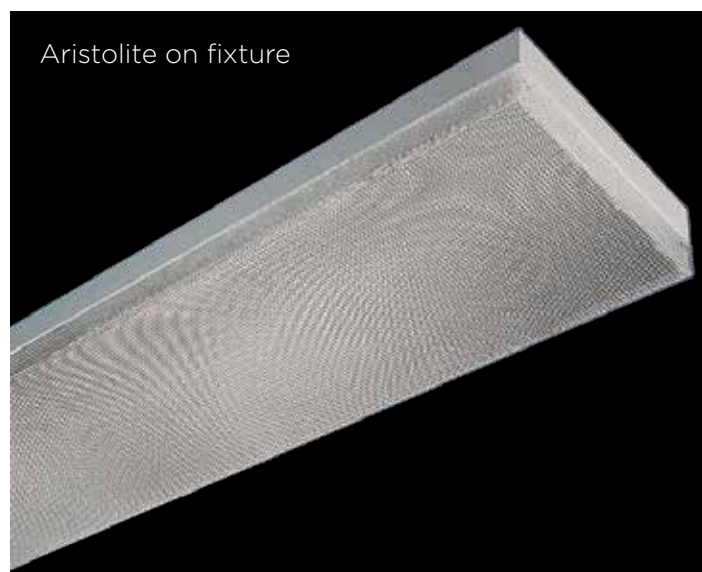
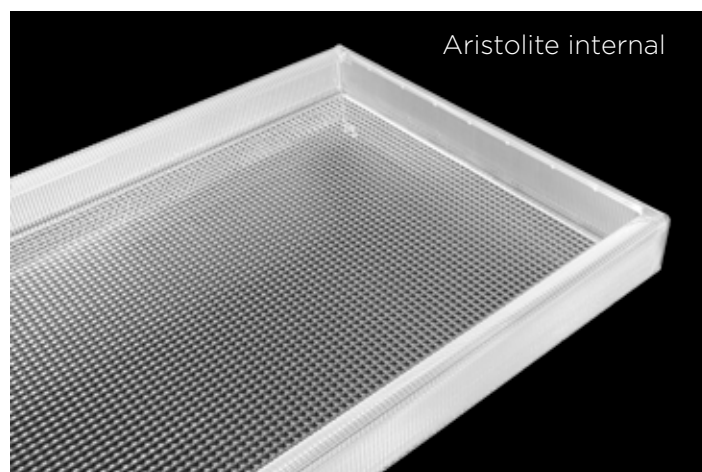
Aristolite is manufactured from 100% Acrylic (Polymethylmethacrylate). Flammability Rating-UL94 HB.

Part Number & Dimensions

Aristolite 190 - 190mm Wide x specified length.
Aristolite 305 - 305mm Wide x specified length.

Uses

- Schools
- Halls
- Offices



Report of Test LL11843

2 x 36W T8 Luminaire.

Product ID: 2 x 36W Type E Troffer 45816.
 Folded/welded metal body, 305 mm x 1263 mm x 40 mm deep, with gloss white finish. Prismatic wraparound diffuser with luminous dimensions of 305 mm x 1260 mm x 40 mm.

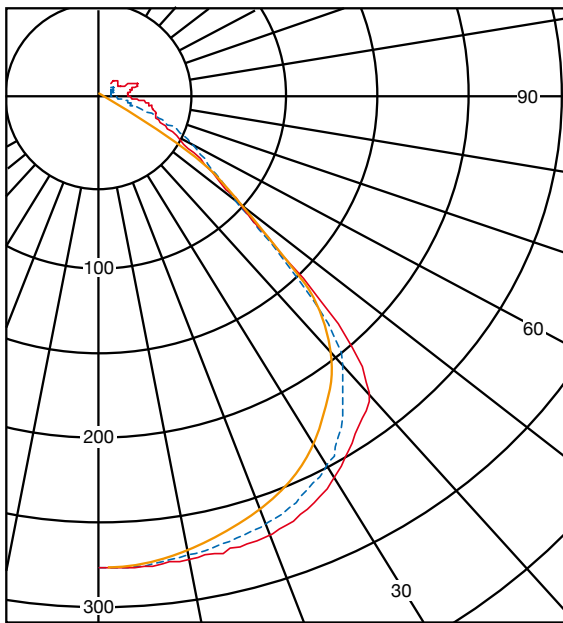
Lamps: 2 x (Osram, L 36W/840) with centres 150 mm apart and 20 mm below body.

Ballasts: 2 x (Osram, QTP8 1 x 36, 220-240 V, 0/50-60Hz) operated at 240 V/50 Hz.

Performance Summary

Light Output Ratio 69.2%
 Luminaire Power 69.6W
 SHR Nominal 1.25
 SHR Maximum 1.46

Polar Intensity Diagram



C0 — C45 — C90 (cd/klm)

Average Luminance (cd/sq.m/klm)

Gamma	C0	C45	C90
45.0	558	508	566
55.0	269	289	304
65.0	177	227	141
75.0	204	130	140
85.0	250	156	163

Intensity Summary (cd/klm)

Gamma	C-Plane					Output
	C0	C22.5	C45	C67.5	C90	Lumens
0.0	278	278	278	278	278	
5.0	278	278	277	277	277	26
10.0	277	276	275	273	272	
15.0	276	275	272	268	266	77
20.0	274	272	267	261	257	
25.0	268	266	260	252	247	119
30.0	257	255	249	239	233	
35.0	243	238	230	223	217	144
40.0	228	220	205	199	196	
45.0	171	164	154	157	159	122
50.0	102	110	100	104	105	
55.0	70	80	74	75	70	68
60.0	50	63	59	57	39	
65.0	37	50	46	44	24	43
70.0	32	40	30	31	19	
75.0	30	37	19	25	16	28
80.0	28	31	15	20	13	
85.0	21	22	12	12	7	16
90.0	16	14	6	5	3	

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	222	22.2	32.1
0-40	366	36.6	52.9
0-60	556	55.6	80.3
0-90	643	64.3	92.8
40-90	277	27.7	40.0
60-90	87	8.7	12.5
90-180	50	5.0	7.2
0-180	692	69.2	100.0

Light Output Ratio 69.2%

SHR-NOM=1.25

SHR-MAX=1.46

Calculated using the TM5 fine grind method

Utilisation Factors UF(F)

Room Reflectance	Room Index											
	C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70 0.50 0.20	0.46	0.50	0.54	0.57	0.62	0.64	0.66	0.69	0.71			
0.30	0.38	0.45	0.50	0.53	0.58	0.61	0.63	0.67	0.69			
0.10	0.35	0.42	0.46	0.50	0.55	0.58	0.61	0.64	0.67			
0.50 0.50 0.20	0.42	0.48	0.52	0.55	0.59	0.61	0.63	0.66	0.67			
0.30	0.38	0.44	0.48	0.51	0.56	0.59	0.61	0.64	0.65			
0.10	0.34	0.41	0.45	0.48	0.53	0.56	0.59	0.62	0.64			
0.30 0.50 0.20	0.40	0.46	0.50	0.53	0.56	0.58	0.60	0.62	0.64			
0.30	0.38	0.43	0.47	0.50	0.54	0.56	0.58	0.61	0.62			
0.10	0.34	0.40	0.44	0.47	0.51	0.54	0.56	0.59	0.61			
0.00 0.00 0.00	0.32	0.38	0.42	0.45	0.48	0.51	0.53	0.55	0.57			

Rating : Photometrically tested without ceiling board.

Multiply values by service correction factors. Calculated in accordance with CIBS Technical Memorandum No. 5 1980 using the fine grid method. Luminaire discretisation employed. Ceiling/Wall/Floor reflectances not used in calculations.