

Y12 Prismatic Panel

An economical diffuser for standard lighting applications.

Applications

- General offices
- Clinical facilities
- Retail areas
- Skylights
- Schools

Description

Y12 is the original prismatic pattern lighting panel whose overall efficiencies and lamp concealment qualities have become the benchmarks against which other prismatic panels are judged. With a 5mm diagonal female prism pattern, Y12 provides maximum efficiency and good brightness control in the direct glare zone.

Quality

Acrylic material used in Y12 meets or exceeds recognised standards. Under normal interior conditions these lenses will

perform satisfactorily for 20 years. Y12 is manufactured from 100% Acrylic (Polymethylmethacrylate). Flammability Rating-UL94 HB.

Performance

(Based on photometric tests on reverse)

- Light output ratio of 74%
- Typical unified glare rating of 22

Dimensions

Thickness Prism depth I.8mm Thickness 2.5, 2.8, 3.0, 4.0mm

2.5 - 4mm

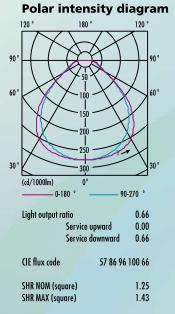
Prism size5mm x 5mmPrism config.Female at a 45° axisPrism depth1.8mmMax width1270mmMax length2540mm

Standard Sizes (nominal) 1500mm x 600mm 1200mm x 600mm 1200mm x 300mm 600mm x 600mm Cut to size upon request.

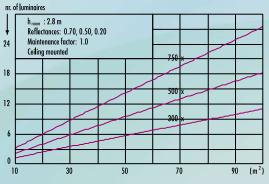
Photometric Data

(2.5mm YI2 used in tests)

2x36W T8 Lamps in a commodity troffer



Quality estimation diagram

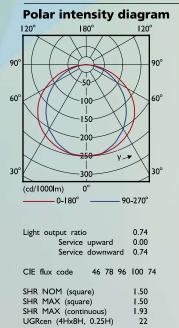


Utilisation factor table

Reflectances			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	42	48	53	56	60	63	65	68	69
0.70	0.30	0.20	37	44	48	52	56	60	62	65	67
0.70	0.10	0.20	34	40	45	49	54	57	60	63	65
0.50	0.50	0.20	41	47	51	54	58	61	63	65	67
0.50	0.30	0.20	36	43	47	51	55	58	60	63	65
0.50	0.10	0.20	33	40	44	48	52	56	58	61	63
0.30	0.50	0.20	40	46	50	52	56	59	60	63	64
0.30	0.30	0.20	36	42	46	50	54	56	58	61	63
0.30	0.10	0.20	33	39	44	47	51	55	57	60	61
0.00	0.00	0.00	32	38	42	45	49	52	54	57	58

Ceiling mounted

2x28W T5 Lamps in a project troffer



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Quantity estimation diagram nr. of luminaires h_{room}: 2.8 m Reflectances: 0.70, 0.50, 0.20 Maintenance factor: 1.0 24 Ceiling mounted 750 Ix 18 -500 Ix 12 _300[.] Ix 6 0 10 30 50 70 90 (m²)

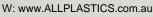
Utilisation factor table

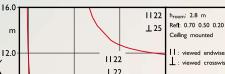
Ref	lectar	ices		Room Index									
с	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00		
0.70	0.50	0.20	44	50	56	59	65	68	71	74	76		
0.70	0.30	0.20	38	44	50	54	60	64	67	71	74		
0.70	0.10	0.20	34	40	46	50	56	61	64	68	71		
0.50	0.50	0.20	43	48	54	57	62	66	68	71	73		
0.50	0.30	0.20	38	43	49	53	59	62	65	69	71		
0.50	0.10	0.20	34	40	45	49	55	59	62	66	69		
0.30	0.50	0.20	41	47	52	56	60	63	66	68	70		
0.30	0.30	0.20	37	43	48	52	57	61	63	66	69		
0.30	0.10	0.20	34	39	45	49	54	58	61	65	67		
0.00	0.00	0.00	32	37	43	46	52	55	58	61	63		

Ceiling mounted

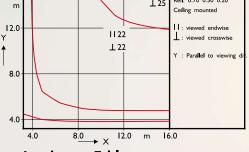
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UGR diagram



Luminance Table

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Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0		
45.0	4256	4227	4142	3972	3755	3545	3471		
50.0	428	4262	4182	3974	3730	348	3393		
55.0	4265	4237	4152	392	3620	3360	3226		
60.0	4152	4192	4119	3886	3557	3275	3138		
65.0	3998	3998	3923	3675	3350	3045	2915		
70.0	3905	3882	3788	3517	3200	29 9	2777		
75.0	3544	3482	3327	3062	2800	2519	2364		
80.0	3152	3106	2920	2665	2410	2202	2038		
85.0	2400	2400	2218	1940	1661	1522	1296		
90.0	-	-	-	-	-	-	-		
	(-1/-2								

 (cd/m^2)

