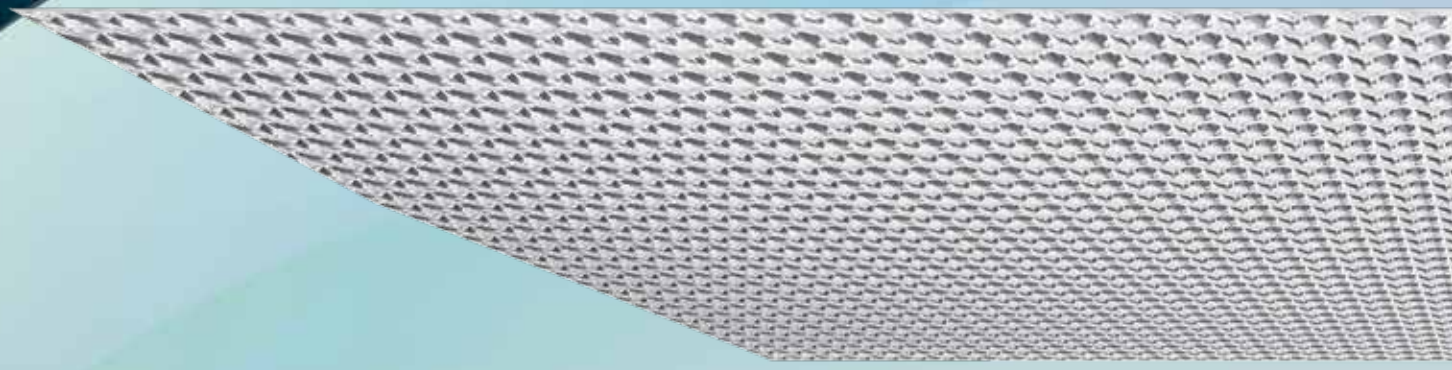
Y15 Prismatic Panel



An attractive diffuser offering an alternative choice for Lighting Designers.

Applications

- Retail areas
- Illuminated ceilings
- Sky domes
- Natural lighting
- General office

Description

Y15 has been engineered to provide the ridged structural characteristics needed to span extra-wide luminaires, while presenting a flawlessly flat appearance. The large 9.5mm square based female prisms, which run parallel and perpendicular to the length and width of the panel, create an aesthetically pleasing appearance that has seen **Y15** used in many architectural applications.

Quality

Acrylic material used in Y15 meets or exceeds recognised standards.
Under normal interior conditions these lenses will perform satisfactorily for 20 years.
Y15 is manufactured from 100% Acrylic (Polymethylmethacrylate). Flammability Rating- UL94 HB.

Performance (Based on photometric tests on reverse)

- Light output ratio of 82%
- Typical unified glare rating of 18

Dimensions

Prism Depth	2.4mm
Thickness	4.4mm

Prism size	9.5mm x 9.5mm
Prism config.	Female square to sheet
Prism depth	2mm
Max width	1270mm
Max length	2540mm

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

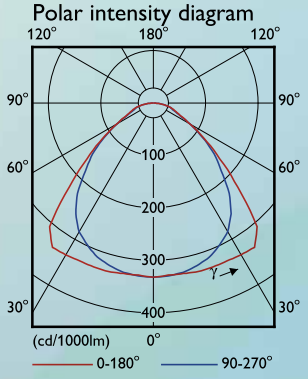
Y15 is also available in Silver Tint.

Y15 Prismatic Panel

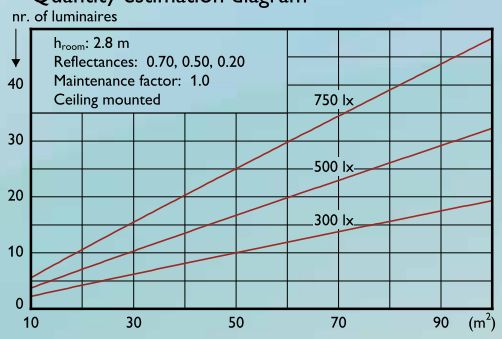
FSN128 1 x T5 28W / 840 Y15

1 x 2600 lm

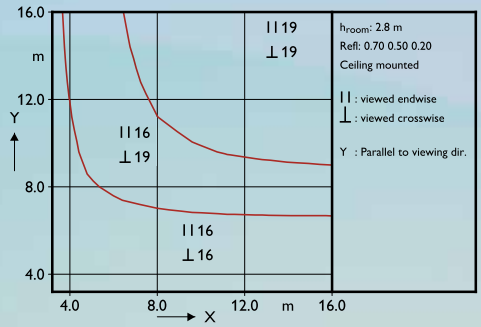
Polar intensity diagram



Quantity estimation diagram



UGR diagram



Light output ratio

Light output ratio	0.82
Service upward	0.00
Service downward	0.82
CIE flux code	58 87 97 100 82
SHR NOM (square)	1.25
SHR MAX (square)	1.46
SHR MAX (continuous)	1.80
UGRcen (4Hx8H, 0.25H)	17
CIBSE: LG3	65 deg, 1500 cd/m2

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	52	60	66	70	75	78	81	84	86
0.70	0.30	0.20	46	54	60	64	70	74	77	81	84
0.70	0.10	0.20	42	50	56	60	67	71	74	79	81
0.50	0.50	0.20	50	58	64	67	72	76	78	81	83
0.50	0.30	0.20	45	53	59	63	69	72	75	79	81
0.50	0.10	0.20	41	50	55	60	65	69	72	76	79
0.30	0.50	0.20	49	57	62	65	70	73	75	78	80
0.30	0.30	0.20	45	53	58	62	67	70	73	76	78
0.30	0.10	0.20	41	49	55	59	64	68	71	74	77
0.00	0.00	0.00	39	47	53	56	61	65	67	71	73

Ceiling mounted

Luminance Table

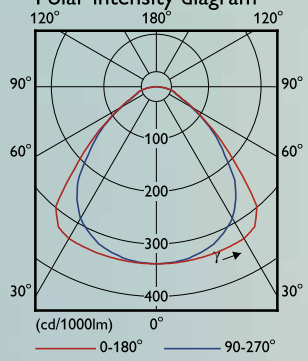
Plane / Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	2584	2600	2593	2445	2259	2120	2082
50.0	2064	1979	1972	1960	1883	1882	1890
55.0	1647	1542	1413	1506	1553	1593	1604
60.0	1302	1279	1207	1307	1307	1282	1285
65.0	1078	1184	1158	1172	1109	1058	1031
70.0	1026	1215	1130	1063	1013	988	942
75.0	1094	1327	1058	994	1011	1050	1050
80.0	1026	1333	1084	1018	1022	1031	1043
85.0	891	1212	1113	948	923	899	923
90.0	-	-	-	-	-	-	-

(cd/m²)

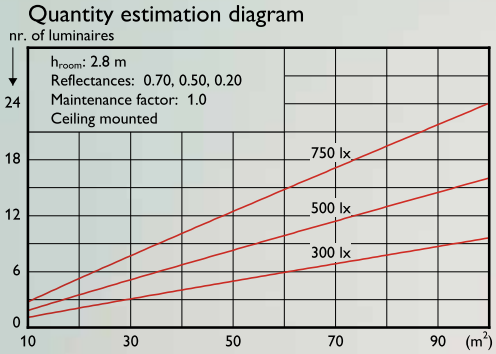
FSN228 2 x T5 28W / 840 Y15

2 x 2600 lm

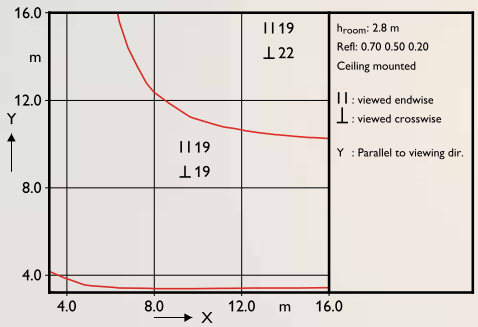
Polar intensity diagram



Quantity estimation diagram



UGR diagram



Light output ratio

Light output ratio	0.82
Service upward	0.00
Service downward	0.82
CIE flux code	59 87 97 100 82
SHR NOM (square)	1.25
SHR MAX (square)	1.43
SHR MAX (continuous)	1.76
UGRcen (4Hx8H, 0.25H)	19

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	52	60	66	70	75	78	81	84	86
0.70	0.30	0.20	46	55	60	65	70	74	77	81	84
0.70	0.10	0.20	42	50	56	61	67	71	74	78	81
0.50	0.50	0.20	51	59	64	67	72	76	78	81	83
0.50	0.30	0.20	46	54	59	63	69	72	75	78	81
0.50	0.10	0.20	42	50	56	60	65	69	72	76	79
0.30	0.50	0.20	50	57	62	65	70	73	75	78	80
0.30	0.30	0.20	45	53	58	62	67	70	73	76	78
0.30	0.10	0.20	42	49	55	59	64	68	71	74	76
0.00	0.00	0.00	40	48	53	56	62	65	67	70	72

Ceiling mounted

Luminance Table

Plane / Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	5012	5065	4996	4776	4526	4303	4178
50.0	4062	3902	3822	3804	3728	3733	3714
55.0	3205	3008	2777	2902	3033	3113	3110
60.0	2576	2478	2337	2520	2531	2472	2449
65.0	2046	2281	2234	2236	2114	1985	2007
70.0	1945	2319	2142	2013	1936	1845	1844
75.0	2126	2556	1954	1860	1934	2010	2080
80.0	2011	2525	2029	1950	1993	2107	2064
85.0	1839	2308	2168	1917	1926	1987	2029
90.0	-	-	-	-	-	-	-

(cd/m²)

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