



YORK PLASTIC PRODUCTS

# Y19 Prismatic Panel

Silver-Tint Acrylic



## Distribution Data

Gamma	0	22.5	45	67.5	90	output lumens
90	0	0	0	0	0	-
85	2	3	3	3	2	25
80	5	5	5	5	5	-
75	7	8	6	7	7	71
70	8	11	7	11	9	-
65	10	15	12	16	13	104
60	17	22	23	25	20	-
55	32	37	42	43	37	116
50	56	62	70	72	69	-
45	103	103	107	115	122	86
40	150	150	155	162	170	-
35	182	181	181	191	197	37
30	200	201	205	214	215	-
25	220	221	226	231	230	14
20	238	239	243	244	242	-
15	253	253	254	253	251	7
10	260	260	260	259	258	-
5	264	263	264	263	263	3
0	265	265	265	265	265	-

## Utilisation Factor UF (F)

Room Reflectance			Room Index SHR NOM=1.25								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
70	50	20	0.34	0.38	0.41	0.42	0.45	0.47	0.48	0.50	0.49
	30		0.31	0.35	0.38	0.40	0.43	0.45	0.46	0.49	0.48
	10		0.29	0.33	0.36	0.38	0.41	0.43	0.45	0.48	0.47
50	50	20	0.33	0.37	0.40	0.41	0.44	0.45	0.46	0.48	0.47
	30		0.31	0.35	0.37	0.39	0.42	0.44	0.45	0.47	0.46
	10		0.29	0.33	0.36	0.38	0.40	0.42	0.44	0.46	0.45
30	50	20	0.32	0.36	0.39	0.40	0.42	0.44	0.44	0.46	0.46
	30		0.30	0.34	0.37	0.39	0.41	0.42	0.43	0.46	0.45
	10		0.29	0.33	0.35	0.37	0.40	0.41	0.42	0.45	0.44
	0		0.28	0.32	0.34	0.36	0.38	0.40	0.41	0.43	0.42

Zonal Lumens and Percentages			
Zone	Lumens	% Lamp	% Luminaires
0-30	201	20.1	43.3
0-40	316	31.6	68.3
0-60	439	43.9	94.7
0-90	464	46.4	100.0
40-90	147	14.7	31.7
60-90	25	2.5	5.3
90-180	0	0.0	0.0
0-180	464	46.4	100.0

Average Luminance (cd/sq.m/klm)			
Gamma	C0	C45	C90
45	449	467	536
55	170	229	199
65	77	90	94
75	81	74	82
85	84	90	85

Light output ratio = 46.4%

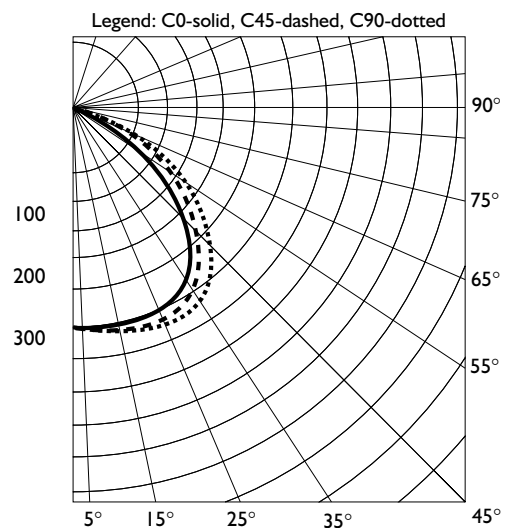
## Certified Test Report No. LSA3135

Sample 2x36W 1200x300mm (nom) T-bar troffer tested as supplied. Off-white body with control gear mounted under box section central spine T-bar rail fitted with YPP Y19ST prismatic inlay panel. Two White 36W 26mm diameter fluorescent lamps side by side. Luminous opening 1177x275mm. Operating at 36W, 240V.

## Product Data

Prism Size	4.7mm x 4.7mm
Prism Configuration	Male square to sheet
Prism depth	2mm
Max Width	1270mm
Max Length	2540mm
Resistance to U.V.	Excellent

Under normal interior conditions 100% acrylic will perform satisfactorily for 20 years.



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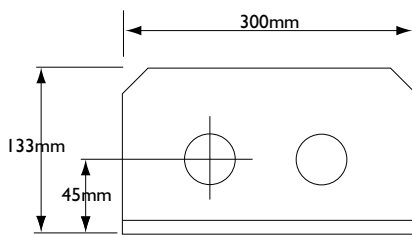
### Clear Acrylic Prismatic Panel Table of Maximum Glare Index Values

2H2H	14.6	16.4	15.1	16.8	17.2
2H3H	15.4	16.9	15.8	17.4	17.8
2H4H	15.9	17.4	16.4	17.8	18.3
2H6H	16.5	17.9	17.1	18.4	18.8
2H8H	16.7	18.0	17.2	18.4	18.9
2H12H	16.8	18.0	17.3	18.5	19.0
4H2H	15.4	16.8	15.8	17.3	17.7
4H4H	16.0	17.2	16.5	17.7	18.2
4H4H	16.5	17.6	17.1	18.2	18.7
4H6H	17.5	18.5	18.1	19.0	19.6
4H8H	17.8	18.7	18.4	19.2	19.8
4H12H	18.3	19.1	18.9	19.6	20.3
8H2H	20.3	20.3	20.3	20.3	20.3
8H3H	20.3	20.3	20.3	20.3	20.3
8H4H	17.4	18.3	18.0	18.8	19.4
8H6H	17.9	18.7	18.5	19.2	19.9
8H8H	18.4	19.0	19.0	19.6	20.3
8H12H	19.0	19.6	19.7	20.2	20.9
12H2H	20.9	20.9	20.9	20.9	20.9
12H3H	20.9	20.9	20.9	20.9	20.9
12H4H	17.8	18.6	18.5	19.2	19.8
12H6H	18.4	19.0	19.0	19.6	20.3
12H8H	18.7	19.2	19.3	19.8	20.5
12H12H	20.5	20.5	20.5	20.5	20.5

### Silvertint Acrylic Prismatic Panel Table of Maximum Glare Index Values

2H2H	13.5	15.2	14.0	15.6	16.0
2H3H	14.2	15.6	14.6	16.1	16.5
2H4H	14.2	15.6	14.7	16.0	16.5
2H6H	14.3	15.6	14.9	16.1	16.6
2H8H	14.6	15.8	15.1	16.2	16.7
2H12H	14.5	15.6	15.0	16.1	16.6
4H2H	13.9	15.2	14.4	15.7	16.2
4H4H	14.0	15.2	14.6	15.7	16.2
4H4H	14.3	15.3	14.9	15.9	16.4
4H6H	14.8	15.6	15.3	16.2	16.8
4H8H	14.9	15.7	15.5	16.3	16.9
4H12H	15.2	15.9	15.8	16.5	17.1
8H2H	17.1	17.1	17.1	17.1	17.1
8H3H	17.1	17.1	17.1	17.1	17.1
8H4H	14.6	15.4	15.2	16.0	16.6
8H6H	15.0	15.7	15.6	16.3	16.9
8H8H	15.2	15.8	15.9	16.4	17.1
8H12H	15.6	16.1	16.2	16.7	17.4
12H2H	17.4	17.4	17.4	17.4	17.4
12H3H	17.4	17.4	17.4	17.4	17.4
12H4H	15.0	15.7	15.6	16.3	16.9
12H6H	15.2	15.7	15.8	16.4	17.0
12H8H	15.3	15.7	15.8	16.4	17.0
12H12H	17.1	17.1	17.1	17.1	17.1

### Product Data



Lamp lumens used in calculation:	3000lms
Original lamp lumens (each):	500lms
Luminous opening in 0 deg plane:	0.275m
Luminous opening in 90 deg plane:	1.175m
Luminous sidewall height:	0.000m
Luminous endcap height:	0.000m
Observer height:	1.200m
Light loss factor:	0.80

Calculated in accordance with method passed by CIE committee TC3.13, Edinburgh conference 1993

Ceiling reflectance	70	70	50	50	30
Wall reflectance	50	30	50	30	30
Floor cavity reflectance	20	20	20	20	20

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