



YORK PLASTIC PRODUCTS

Y19 Prismatic Panel



A premium diffuser for quality lighting applications.

Application

- Supermarkets
- Computer rooms
- Laboratories
- Schools and colleges
- Test and inspection areas
- Hospitals
- Radio frequency sensitive areas
- General offices

Description

Y19 is the premier prismatic pattern. With a 4.7mm male prism running parallel and perpendicular to the length and width of the panel, **Y19** provides good lamp cut-off to minimize lamp images and provide very low brightness at angles close to the horizontal.

Y19 Silver-Tint has a faint translucent tint that creates an elegant lighting effect. **Y19** Silver-Tint produces lower brightness enclosure with improved visual comfort.

Y19's high degree of luminance control make it best suited for interiors involving more arduous visual tasks.

Photopia performance evaluation



File no.: YORKY19D

File no.: YORKY19S

Quality

Acrylic material used in Y19 meets or exceeds recognised standards.

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

Y19 is manufactured from 100% Acrylic (Polymethylmethacrylate). Flammability Rating-UL94 HB.

Performance

(Based on photometric tests on reverse)

- Light output ratio of 78%
- Typical unified glare rating of 16

Dimensions

Prism Depth 2mm
Thickness 4mm and 3.6mm

Prism size 4.7mm x 4.7mm
Prism config. Male square to sheet
Prism depth 2mm
Max width 1270mm
Max length 2540mm

Standard Sizes (nominal)

2540mm x 1270mm
1270mm x 1270mm
Cut to size upon request.

Y19 is available in the following variations:
Y19 Silver Tint, Y19 U.V. Absorbing, Y19 Radio Frequency Reducing.

VIC

8 Brady Close
Braeside VIC 3195
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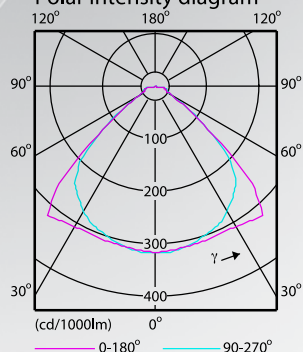
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Photometric Data

FSN128 1 x T5 28W / 840 Y19, 1 x 2600 lm

Y19 Prismatic Panel

Polar intensity diagram

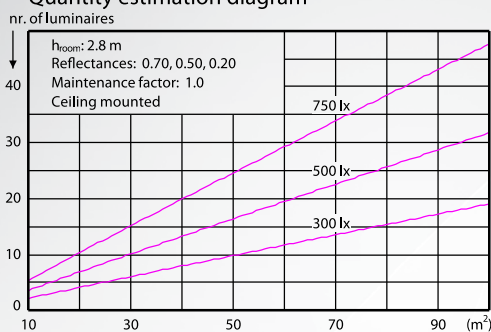


Light output ratio 0.78
Service upward 0.00
Service downward 0.78

CIE flux code 58 90 97 100 78

SHR NOM (square) 1.50
SHR MAX (square) 1.57
SHR MAX (continuous) 1.91
UGRcen (4Hx8H, 0.25H) 16
CIBSE: LG3 65 deg, 1500 cd/m²

Quantity estimation diagram

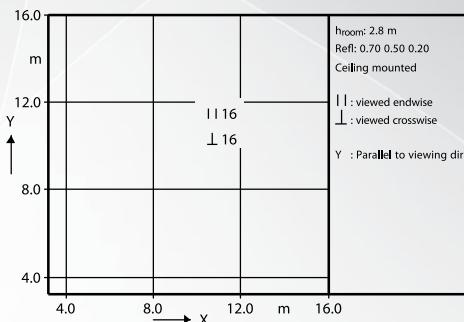


Utilisation factor table

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	53	60	65	69	73	76	78	81	83
0.70	0.30	0.20	48	55	60	64	70	73	75	79	81
0.70	0.10	0.20	45	51	57	61	66	70	73	76	79
0.50	0.50	0.20	52	58	63	67	71	74	76	78	80
0.50	0.30	0.20	48	54	59	63	68	71	73	76	78
0.50	0.10	0.20	44	51	56	60	65	69	71	74	76
0.30	0.50	0.20	51	57	62	65	69	71	73	75	77
0.30	0.30	0.20	47	53	58	62	66	69	71	74	75
0.30	0.10	0.20	44	50	56	59	64	67	69	72	74
0.00	0.00	0.00	43	49	54	57	61	64	66	69	71

Ceiling mounted

UGR diagram



Luminance Table

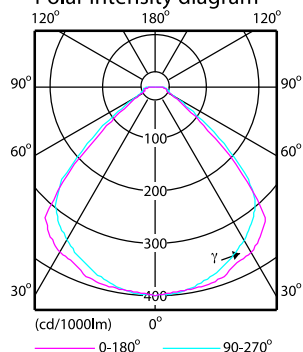
Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	2947	2947	2913	2751	2674	2481	2310
50.0	1778	1987	2216	2112	2128	1940	1765
55.0	1052	1245	1676	1641	1774	1315	1101
60.0	676	869	1312	1219	1424	958	732
65.0	457	638	1047	762	1095	743	504
70.0	517	618	906	529	929	718	588
75.0	622	738	731	459	715	832	653
80.0	881	904	788	822	765	1008	973
85.0	924	923	970	924	1015	1062	1109
90.0	-	-	-	-	-	-	-

(cd/m²)

Photometric Data

FSN128 1 x T5 28W / 840 Y19, With internal reflector, 1 x 2600 lm

Polar intensity diagram

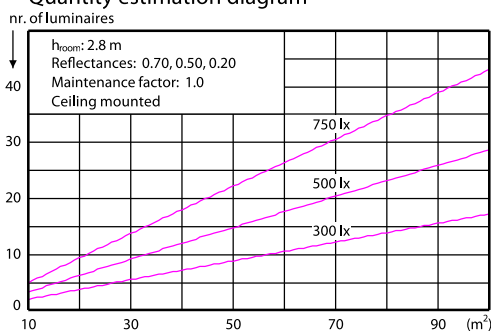


Light output ratio 0.89
Service upward 0.00
Service downward 0.89

CIE flux code 62 91 97 100 89

SHR NOM (square) 1.25
SHR MAX (square) 1.46
SHR MAX (continuous) 1.73
UGRcen (4Hx8H, 0.25H) 16
CIBSE: LG3 65 deg, 1500 cd/m²

Quantity estimation diagram

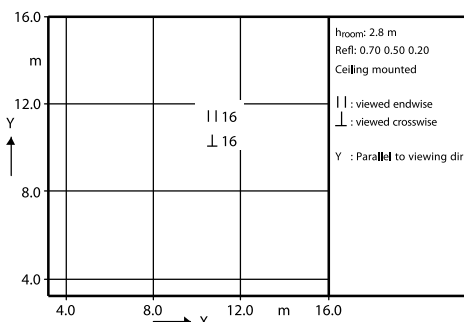


Utilisation factor table

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	59	68	74	78	83	87	89	92	94
0.70	0.30	0.20	53	62	68	73	79	83	86	89	92
0.70	0.10	0.20	48	58	64	69	75	79	82	87	90
0.50	0.50	0.20	57	66	72	75	80	84	86	89	91
0.50	0.30	0.20	52	61	67	71	77	80	83	87	89
0.50	0.10	0.20	48	57	63	67	73	78	80	84	87
0.30	0.50	0.20	56	64	70	73	78	81	83	86	87
0.30	0.30	0.20	51	60	66	70	75	78	81	84	86
0.30	0.10	0.20	48	57	62	66	72	76	78	82	84
0.00	0.00	0.00	46	55	60	64	69	73	75	78	80

Ceiling mounted

UGR diagram



Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	2663	2700	2805	2782	2828	2814	2856
50.0	1627	1865	2172	2150	2247	2156	2122
55.0	1024	1203	1683	1662	1866	1480	1333
60.0	644	821	1295	1195	1432	1030	837
65.0	476	628	1085	790	1143	800	590
70.0	541	635	929	529	941	765	635
75.0	653	785	778	505	746	886	715
80.0	926	916	765	858	788	1054	1042
85.0	831	946	970	970	1109	1155	1246
90.0	-	-	-	-	-	-	-

(cd/m²)

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