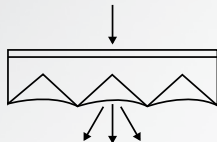


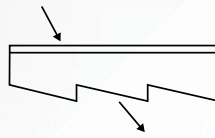


YORK PLASTIC PRODUCTS

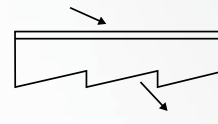
Y3E One Lamp



Female prisms



Elevating prisms



Depressing prisms

Applications

- **For energy efficient lighting especially in corridors and smaller offices.**

Architectural specifications

Y3E clear acrylic

In a nominal 300mm x 1200mm with one 28 watt T5 lamp centered in the luminaire with the lamp centre 70mm above the bottom of the lens, minimum luminaire efficiency is 83%.

Thickness

3.5mm lenses are 3.2mm - 3.6mm thick with prestressed arch to span up to 305mm x 1220mm.

Standard Sizes

310mm x 1600mm

310mm x 1220mm

Acrylic material used in Y3E

The acrylic used in Y3E prismatic lighting is 100% high molecular weight polymethyl methacrylate (PMMA) virgin material meeting grade requirements as set forth in table 2 of ASTM D-788-69a. It exceeds IES-NEMA-SPI standards for acrylic material by 100%. Under normal conditions these lenses will perform satisfactorily for 20 years.

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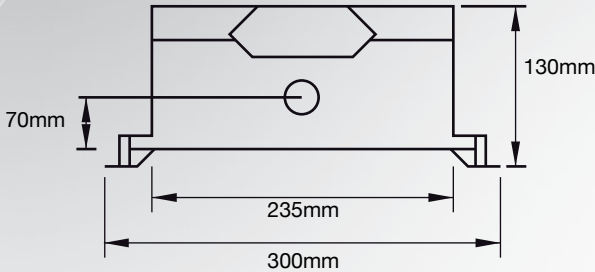




YORK PLASTIC PRODUCTS

Y3E One Lamp

Commercially available troffer



Sample test

Room dimensions

Width	8.00 m
Length	6.00 m
Height	2.70 m
Working Plane Height	0.70 m
Maintenance Factor	0.80

Unified Glare Rating (CIE): 19

Calculation Results

Luminance calculations:

Calculation	Type	Unit	Ave	Min/Ave	Min/Max	Result
Working plane	Surface illuminance	lux	334	0.79	0.64	Total

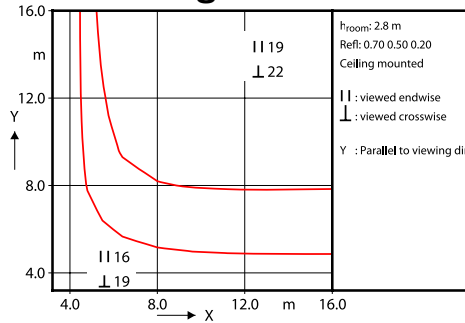
Luminaire Details

FSN128 Y3E 1xT5 28W/840

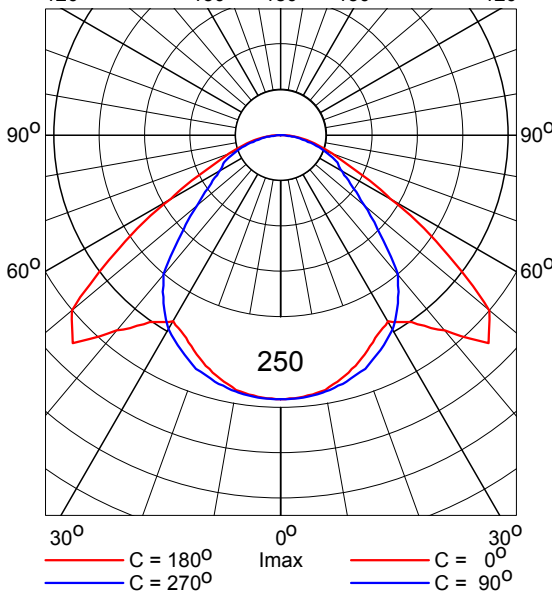
Light output ratios

DLOR	: 0.83
ULOR	: 0.00
TLOR	: 0.83
Lamp flux	: 2600 lm
Luminaire wattage	: 32.0 W
Measurement code	: PH1122

UGR Diagram



Luminous Intensity Diagram (candela/1000 lumen)



Luminance Table

Plane Cone	0.0	15.0	30.0	45.0	60.0	75.0	90.0
45.0	3692	3446	2920	2228	1872	1790	1778
50.0	3765	3580	3175	2558	1818	1580	1498
55.0	3053	3164	2931	2575	1878	1434	1323
60.0	2255	2620	2598	2270	1837	1414	1226
65.0	1685	2125	2213	1949	1656	1398	1293
70.0	1422	1768	1888	1684	1435	1259	1213
75.0	1322	1633	1529	1331	1197	1107	1083
80.0	1204	1462	1159	1061	954	887	856
85.0	1013	1048	817	711	613	551	533
90.0	-	-	-	-	-	-	-

(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	49	57	63	68	74	78	81	84	87
0.70	0.30	0.20	43	51	58	62	69	74	77	81	84
0.70	0.10	0.20	39	46	53	58	65	70	73	78	82
0.50	0.50	0.20	48	55	61	66	71	75	78	81	83
0.50	0.30	0.20	43	50	56	61	67	71	74	78	81
0.50	0.10	0.20	39	46	52	57	64	68	72	76	79
0.30	0.50	0.20	47	54	60	64	69	72	75	78	80
0.30	0.30	0.20	42	49	55	60	65	69	72	76	78
0.30	0.10	0.20	38	45	52	56	63	67	70	74	77
0.00	0.00	0.00	36	43	49	54	60	64	67	70	73

Ceiling mounted

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