



YORK PLASTIC PRODUCTS

Y3EA Asymmetric



Y3EA Asymmetric is a three prism configuration for use with a single lamp giving superb distribution characteristics.

Applications

- Corridors
- Cashier & other service counters
- Task luminaires
- Lecture facilities
- Clinical bed-head luminaires

Description

Y3EA Asymmetric is a highly specialised lens comprising a three prism configuration arranged to create a unique control panel providing an unmatched asymmetric distribution with a peak intensity between 40° and 45°.

Y3EA Asymmetric is designed for use with a single lamp, T8 or T5 configuration.

Y3EA Asymmetric possesses superb distribution characteristics with efficiency values of nearly 60%.

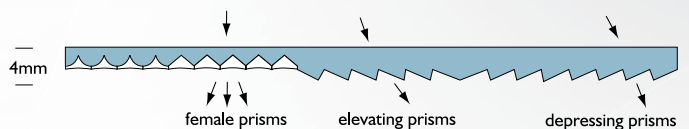
Quality

Acrylic material used in Y3EA Asymmetric meets or exceeds recognised standards. Under normal interior conditions these lenses will perform satisfactorily for 20 years. Y3EA Asymmetric is manufactured from 100% Acrylic (Polymethylmethacrylate). Flammability Rating-UL94 HB.

Dimensions

Thickness

Y3EA Asymmetric is 4mm thick.

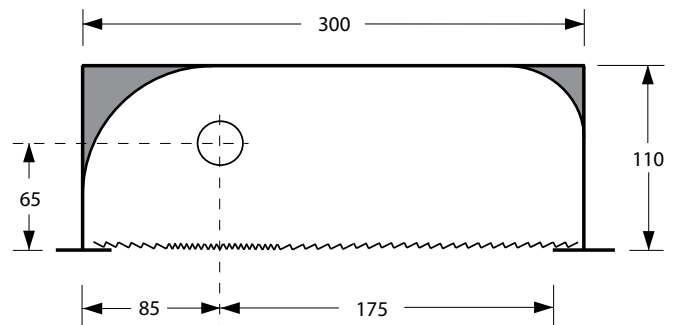


Standard Sizes

Generally used in single lamp luminaires with openings of approximately 260mm.

The diagram gives an indication of correct configuration of lamp - luminaire - Y3EA Asymmetric.

Alternative configurations are possible providing differing angles of maximum intensity. Please note that correct orientation and position of prisms is essential to obtain optimum performance.



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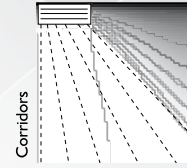
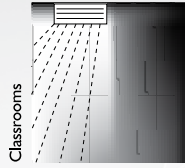
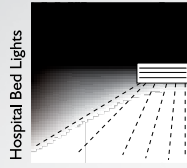
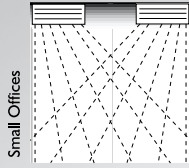
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Y3EA Asymmetric



Environmental Research Laboratories Inc.

Report No. E.R.L. 2222

Y3EA Asymmetric Lens in 1200x300mm troffer

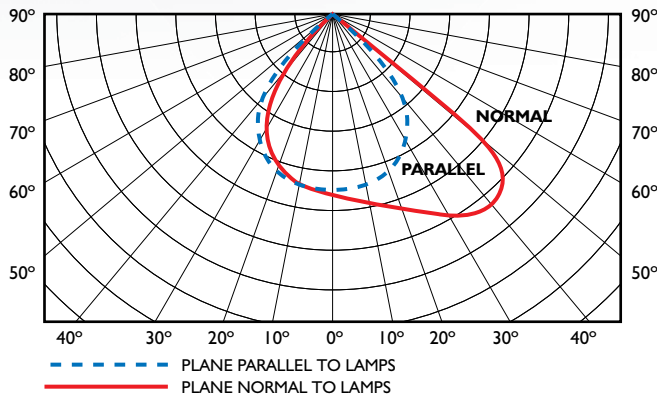
Building Acoustics & Lighting Labs Inc.

Test No. 1218

Y3EA Asymmetric Lens in 1200x300mm troffer

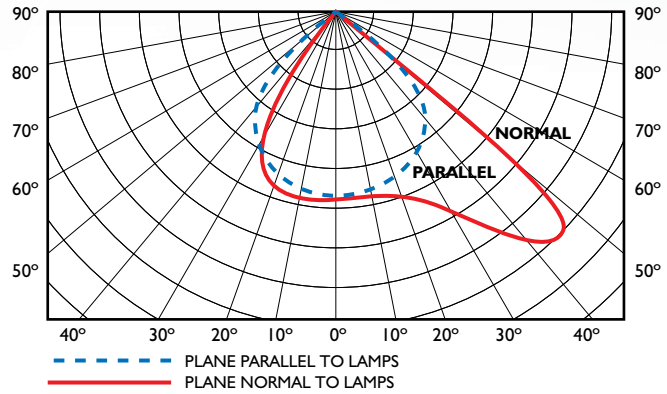
Distribution

Across axis beam angle: 42.5°



Distribution

Across axis beam angle: 45°



Coefficients of utilisation

Zonal cavity method

FLOOR	20%							
	CEILING	60%				60%		
		70%	50%	30%	10%	50%	30%	10%
1	.64	.62	.60	.58	.58	.56	.55	
2	.59	.5	.52	.49	.52	.49	.47	
3	.54	.49	.45	.42	.47	.43	.41	
4	.50	.44	.39	.36	.42	.38	.35	
5	.46	.39	.34	.31	.37	.33	.30	
6	.43	.35	.30	.27	.34	.30	.27	
7	.39	.32	.27	.24	.30	.26	.23	
8	.36	.28	.24	.20	.27	.23	.20	
9	.33	.26	.21	.18	.28	.20	.18	
10	.31	.23	.19	.16	.22	.18	.15	

Efficiency: 57.98%

Coefficients of utilisation

Zonal cavity method

FLOOR	20%							
	CEILING	60%				60%		
		70%	50%	30%	10%	50%	30%	10%
1	.63	.60	.58	.56	.57	.56	.54	
2	.58	.54	.51	.48	.51	.48	.46	
3	.53	.48	.44	.41	.46	.43	.40	
4	.49	.43	.39	.36	.41	.38	.35	
5	.45	.39	.34	.31	.37	.33	.30	
6	.42	.35	.30	.27	.33	.29	.26	
7	.38	.31	.27	.23	.30	.26	.23	
8	.35	.28	.23	.20	.27	.23	.20	
9	.32	.25	.20	.17	.24	.20	.17	
10	.30	.23	.18	.15	.22	.18	.16	

Efficiency: 56.55%

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