

# TRF 2X4 - Troffer Acrylic Lens

## Application

The TRF series 2X4 Parabolic troffer is an economical and efficient design for quality lighting in commercial, retail and institutional applications. Long recognized as a standard in luminaires, this acrylic lens luminaire offers low cost maintenance with exceptional light output. For use in grid ceiling (NEMA Type G). Available in 2, 3, 4 and 6 lamp T5 or T8 configurations.

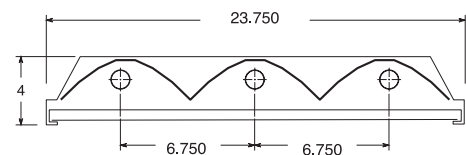
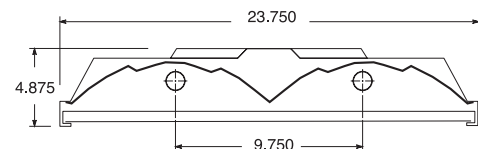
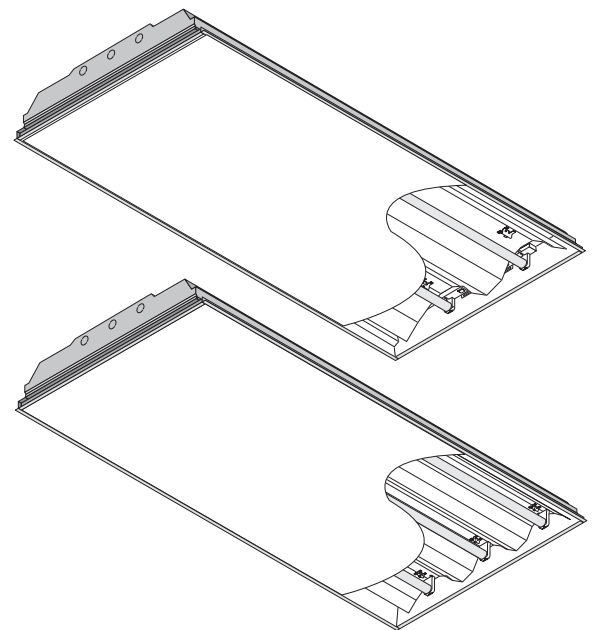
## Construction

Fixture housing and ends are constructed from die formed steel, embossed for strength and uniformity. The heavy-duty ends attach to housing with tabs and screws. Fixture has integral EQ clips. Quick access plate for convenient power connections. All painted metal parts are pre-treated with a phosphate bonding process and painted with electrostatically applied high temperature baked white enamel for superior quality and durability.

Reflectors are constructed from highest quality specular on polished or white aluminum. Material form, fit and thickness meet or exceed all UL 1598 requirements. Computer assisted design provides maximum light output, uniform light distribution, rigid strength and ballast access without the use of tools. The durable surface is highly resistant to scratching and non-abrasive cleaning solutions, making the reflectors easy to clean.

## Electrical

Energy saving and electronic Class P, CBM/ETL certified HPF ballast comply with Federal Energy Efficiency Standards; Underwriters Laboratories listed.



*Industry Leaders in Customization + Lead Times for Over 25 Years*



# TRF 2X4 - Photometrics

reflect-a-light™

Coefficients of Utilization-Zonal Cavity Method Effective Floor Cavity Reflectance 0.20											
RC	80%				70%				50%		
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%
0	97	97	97	97	94	94	94	94	90	90	90
1	90	87	84	81	88	85	82	80	81	79	77
2	83	78	73	69	81	76	72	68	73	70	67
3	77	70	65	60	75	69	64	60	67	62	59
4	72	63	57	52	70	62	57	52	60	55	51
5	66	57	51	46	65	56	50	46	54	49	45
6	61	52	45	41	60	51	45	40	50	44	40
7	57	47	41	36	56	46	40	36	45	40	36
8	53	43	36	32	52	42	36	32	41	35	32
9	49	39	32	28	48	38	32	28	37	32	28
10	46	35	29	25	45	35	29	25	34	29	25

**Catalog Number:**  
TRF-23224-EA-N

**Lamps:**  
Two F32T8

**Ballast:**  
Electronic 2-F32IS

**Plane:** 0-DEG 90-DEG  
**Spacing Criteria:** 1.2 0.9  
**Efficiency:** 81.1%  
**Photometric Certified by:** Luminaire Testing Laboratory  
**Report No.:** LTL13755

Coefficients of Utilization-Zonal Cavity Method Effective Floor Cavity Reflectance 0.20											
RC	80%				70%				50%		
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%
0	87	87	87	87	85	85	85	85	81	81	81
1	81	78	76	74	79	77	75	72	74	72	70
2	76	71	67	63	74	69	66	62	67	64	61
3	70	64	59	55	69	63	58	54	61	57	54
4	65	58	52	48	64	57	52	48	55	51	47
5	60	52	46	42	59	51	46	42	50	45	42
6	56	48	42	38	55	47	41	37	46	41	37
7	52	43	37	33	51	43	37	33	42	37	33
8	48	39	33	30	47	39	33	29	38	33	29
9	45	35	30	26	44	35	30	26	34	29	26
10	42	32	27	23	41	32	27	23	31	26	23

**Catalog Number:**  
TRF-33224-EA-N

**Lamps:**  
Three F32T8

**Ballast:**  
Electronic 3-F32IS

**Plane:** 0-DEG 90-DEG  
**Spacing Criteria:** 1.2 1.1  
**Efficiency:** 73.3%  
**Photometric Certified by:** Luminaire Testing Laboratory  
**Report No.:** LTL03675

## Fixture Ordering Guide

TRF Series	2 Lamps	32 Wattage	24 Length x Width	EA Material	N Ballast
---------------	------------	---------------	----------------------	----------------	--------------

**Troffer Series**  
TRF - Acrylic Lens

**No. of Lamps**  
2 - Two Lamps  
3 - Three Lamps  
4 - Four Lamps  
6 - Six Lamps

**Lamp Wattage**  
32 - 32 Watt T8  
54 - 54 Watt T5

**Fixture Size (Length x Width)**  
24 - 2x4

**Material Type**  
EA - 95% Enhanced Aluminum  
SA - 86% Specular Aluminum  
WA - 91% White Aluminum  
MA - 93% Micro Aluminum

**Electronic Ballast Options**  
H - High Power  
N - Normal Power  
L - Low Power  
4 - 480 Volt

Download catalog PDF's, IES files and cutsheets on our website.



www.usenergysciences.com  
1.800.537.1629

US Energy Sciences  
reflecting technology™