

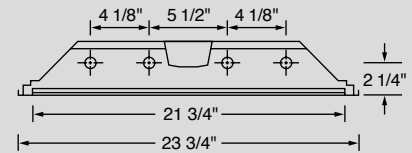
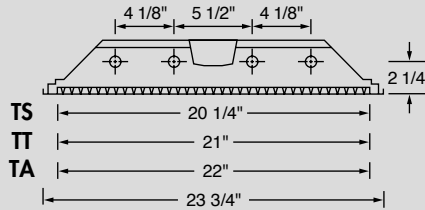
VERSATILE TROFFER AND LENS



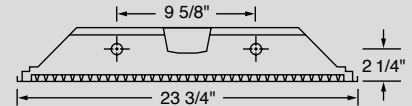
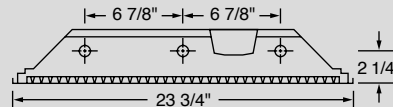
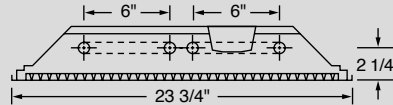
SIMKAR's new technology ensures sure firing of U-bend lamps – first time, every time



TY-244



TY, TK, TB



TROFFERS

SIMKAR Lay-In Troffers are versatile, efficient fixtures available in many lamp configurations. TWENTY-ONE design features make SIMKAR's 3 3/4" troffer the best on the market.

Housing: Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Flush white steel door frame with mitered corners that can be hinged from either side. TE - black flush steel door frame. Swing-action cam latches provide positive fit. Light traps standard. Access plate providing 2 KO's and ground screw.

Shielding: A variety of acrylic lens and louvers available. Silver or gold durabolic, specular, and semi-specular louver finishes available.

Electrical: Fully wired for 120V, 60 Hz AC operation with ETL-CBM, thermally protected, automatic resetting, energy saving, Class P, high-power-factor ballast, unless otherwise specified. Sound rated A ballast, except slimline and high-output models. U.L. listed.

Mounting: Lay-in (T) or Flange (F) troffer.

NOTES

- See pages 58 through 63 for additional information.
- See page 24 for photometric data.

Ordering Information

T	Y	—	244	332	B11	20G	120V
MOUNTING	SPEC DOOR	SIZE	LAMPS	BALLAST	SPECIAL FEATURE	VOLTAGE	
T - Lay-In	FW - Flat white	122 - 1 x 2	131 - (1) 31W U6" T8	B10 - Magnetic TT	20G - 20 gauge (2 x 2 and 2 x 4 only)	120	
F - Flange	aluminum	124 - 1 x 4	217 - (2) 17W 24" T8	B11 - Electronic T8	FL - Flex, see page 62	277	
XF - Powder coat, flange	RB - Regressed black	242 - 2 x 2	232U - (2) 32W U6" T8**	B14 - Electronic TT	Heat return option, see page 61		
XT - Powder coat, lay-in	RW - Regressed white	244 - 2 x 4	232 - (2) 32W 48" T8	E1 - Magnetic T12	L - Lamps		
	WF - White steel	484 - 4 x 4	240 - (2) 34 or 40W 48" T12		Reflectors, see page 59		
			240U - (2) 40W U6" T12		B - Black door		
			240TT - (2) 40W 22" TT		G - Gold durabolic		
			332U - (3) 32W U 1 5/8" T8		S - Silver specular (standard)		
			332 - (3) 32W 48" T8		SD - Silver durabolic		
			340 - (3) 34 or 40W 48" T12		SM - Silver semi-specular		
			340TT - (3) 34 or 40W 22" TT				
			432 - (4) 32W 48" T8				
			440 - (4) 34 or 40W 48" T12				
LOUVER/LENS							
A - 1/2" x 1/2" x 1/2" cell*							
B - .125 clear prismatic acrylic polycarbonate							
E - 1 x 4 with 26 cells (2 rows of 13)*							
2 x 2 with 36 cells (6 rows of 6)*							
2 x 4 with 78 cells (6 rows of 13)*							
K - .125 clear prismatic acrylic							
L - 1/2" x 1/2" x 1/2" egg crate, white*							
P - Acrylic drop dish							
S - 1/2" x 1 1/2" x 1"							
X - Parahex louver							
Y - Clear prismatic acrylic							
* Specify silver or gold finish ** For 1 5/8" please specify							



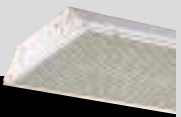
VERSATILE TROFFER AND LENS

TE, XTE, FE, XFE SERIES PARABOLIC: Semi-specular aluminum parabolic louver, 3 1/2" square.



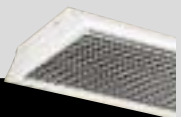
CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80		70		50		50		30	
					2-6" U	2-32W 1x4	3-32W	4-32W	70	50	30	70	50	30	50	50	30
0	2009	2009	2009	35	76	72	120	154	1	71	69	67	70	68	66	65	63
5	1997	2009	2013	50	54	50	84	108	2	66	62	59	65	61	58	59	56
15	1911	1940	1992	75	36	34	56	72	3	61	56	52	60	55	51	53	50
25	1761	1892	2077	100	27	25	42	54	4	57	50	45	55	49	45	48	44
35	1547	1828	2047	AVERAGE LUMINANCE CD/SQ.M				TYPICAL V.C.P.s				COEFFICIENT OF UTILIZATION					
45	1262	1669	2241	Angle	0	90	Room Size	Mounting Height		LIGHT DISTRIBUTION							
55	872	1396	1725	45	918	1613	30x30	8.5	10	Zone							
65	164	363	178	55	782	1547	40x40	88	82	Lumens							
75	27	31	38	65	200	217	60x30	90	86	%Lamp							
85	5	5	4	75	54	76	60x60	89	85	%Fixture							
90	1	0	0	85	30	24	100x100	91	88	0-30 1623 18.7 29.1							
				Lamps = (3) F32 T8 @ 2850 lumens ea. Input Watts = 105.9 LER = FP46.9 Test #00246								0-40 2753 31.6 49.3					
				Ballast = Electronic 120 V Ballast Factor = .88 S/MH: 0° = 1.2; 90° = 1.6								0-60 5237 60.2 93.8					
				Comparative yearly lighting energy cost per 1000 lumens = \$5.12 based on 3000 hrs. and \$.08 per KWH								0-90 5584 64.2 100.0					

TA, FA SERIES SMALL CELL LOUVER: 1/2" x 1/2" x 1/2" cell specular silver parabolic louver, PL1. 44° shielding from all angles, excellent brightness control.



CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80		70		50		50		30	
					2-"U" 6"	3-32W	4-32W	70	50	30	70	50	30	50	50	30	
0	3390	3390	3390	35	71	113	144	1	64	63	61	63	61	60	59	58	
5	3377	3402	3417	50	50	99	101	2	61	58	55	59	57	54	55	53	
15	3207	3312	3339	75	33	53	67	3	57	53	49	56	52	49	50	48	
25	2901	3036	3190	100	25	40	50	4	53	48	44	52	48	44	46	43	
35	2484	2685	2908	AVERAGE LUMINANCE CD/SQ.M				TYPICAL V.C.P.s				COEFFICIENT OF UTILIZATION					
45	1921	2177	2494	Angle	0	45	90	Room Size	Mounting Height		LIGHT DISTRIBUTION						
55	275	544	311	45	4161	4715	5402	30x30	8.5	10	Zone						
65	0	0	0	55	734	1453	830	40x40	87	93	Lumens						
75	0	0	0	65	0	0	0	60x30	87	93	%Lamp						
85	0	0	0	75	0	0	0	60x60	88	93	%Fixture						
90	0	0	0	85	0	0	0	100x100	88	93	0-30 2664 23.4 40.9						
				Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 100.1 LER = FP52.5 Test #02872 & 77								0-40 4348 38.1 66.7					
				Ballast = Electronic 120 V Ballast Factor = .525 S/MH: 0° = 1.2; 90° = 1.3								0-60 6518 57.2 100.0					
				Note: 2x2 model with 2-31W T8 U-6 has LER = FP49.5, Ballast Factor = .949, Input Watts = 55.8.								0-90 6519 57.2 100.0					
				Comparative yearly lighting energy cost per 1000 lumens: 2x2 = \$4.84 and 2x4 = \$4.57													

TS, FS SERIES 1 1/2" SUPERCUBE LOUVER: 1 1/2" x 1 1/2" x 1" cell specular silver parabolic louver, PL2. 38° shielding from all angles, excellent brightness control.



CANDLEPOWER				LIGHT GUIDE (T8 LAMPS AND ELECTRONIC BALLAST)				COEFFICIENT OF UTILIZATION									
Angle	0	45	90	Footcandles	Area/fixture in sq.ft./lg. room, good conditions - 8' to 10' ceilings			RC 80		70		50		50		30	
					2-"U" 6"	3-32W	4-32W	70	50	30	70	50	30	50	50	30	
0	2995	2995	2995	35	57	91	116	1	63	61	59	61	60	58	57	56	
5	2991	3006	3019	50	40	63	81	2	59	56	53	58	55	52	53	51	
15	2868	3010	3052	75	27	42	54	3	55	51	48	54	50	47	49	46	
25	2625	2840	2963	100	20	32	41	4	51	46	43	50	46	42	45	42	
35	2277	2598	2793	AVERAGE LUMINANCE CD/SQ.M				TYPICAL V.C.P.s				COEFFICIENT OF UTILIZATION					
45	1803	2229	2554	Angle	0	45	90	Room Size	Mounting Height		LIGHT DISTRIBUTION						
55	237	778	449	45	4440	5490	6290	30x30	8.5	10	Zone						
65	1	0	0	55	720	2362	1363	40x40	84	90	Lumens						
75	0	0	0	65	4	0	0	60x30	84	91	%Lamp						
85	0	0	0	75	0	0	0	60x60	85	91	%Fixture						
90	0	0	0	85	0	0	0	100x100	85	91	0-30 2436 21.4 38.4						
				Lamps = (4) F32 T8 @ 2850 lumens ea. Input Watts = 101.5 LER = FP50.4 Test #02873								0-40 4050 35.5 63.8					
				Ballast = Electronic Ballast Factor = .806 S/MH: 0° = 1.2; 90° = 1.4								0-60 6348 55.7 100.0					
				Comparative yearly lighting energy cost: 2x2 = \$5.50, 2x4 = \$4.76								0-90 6349 55.7 100.0					
				Note: 2x2 model with 2-31W T8 U-6, LER = FP43.6 Ballast Factor = 94.9% Input Watts = 55.8													

