

PHILIPS Day-Brite CFI

Healthcare

SurgiCare
Troffer 2x4

STRG24 & STRF24
T8, T5, or T5HO



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

The Philips Day-Brite / CFI SurgiCare Troffer is designed for the illumination, electrical shielding and infection control requirements of the surgical suite. The asymmetric/symmetric light distribution provides ambient illumination while contributing supplemental illumination for the surgical field.

Ordering guide

example: STRG246T82773HALDSTA1ASMEM1

Model No.	No of Lamps*	Lamp Type	Voltage	No. of Circuits	Housing Material	Door Frame Material	Door Mounting	Lens	Options
					HAL				
STRG24	SurgiCare 2x4 Grid model	3 4 6 ¹	120 277	1 ¹ 2 ³ 3 ^{3,4}	HAL .040" aluminum	DST 20 ga. cold rolled steel	A1 Stainless steel hinge/screws A2 Stainless steel screws/dual aircraft safety cables A3 Stainless steel hinge/spring loaded latches	ASM Asymmetric/symmetric lens SYM Symmetric lens	EM1 ⁵ 1-lamp emergency ballast battery back-up (90 min.) EM2 ^{2,5} 2-lamp emergency ballast battery back-up (90 min.) 1/3 One 3-lamp ballast 1/21 2-lamp & 1-lamp ballasts 1/4 One 4-lamp ballast 2/2 Two 2-lamp ballasts 2/3 Two 3-lamp ballasts 3/2 Three 2-lamp ballasts 1/42 4-lamp & 2-lamp ballasts EB Electronic ballast, <20% THD EBD ² Electronic dimming ballast EB10R Elec. ballast, program rapid start, <10% THD SBF Slow blow fuse TBC T-bar support clips
STRF24	SurgiCare 2x4 Flange model	21 ² 3 lamps (2 white / 1 green) 22 ² 4 lamps (2 white / 2 green) 33 ² 6 lamps (3 white / 3 green) 42 ² 6 lamps (4 white / 2 green)							

Footnotes

- * See standard lamp chart on page 3.
- 1 Not available for T5HO models.
- 2 Available for T8 models only.
- 3 Must specify ballast quantity and type listed under options.
- 4 Available for T8 6 and 42 lamp configuration models only.
- 5 UL listed (not CUL).

STRG24 & STRF24 SurgiCare Troffer 2x4

T8, T5, or T5HO

Features

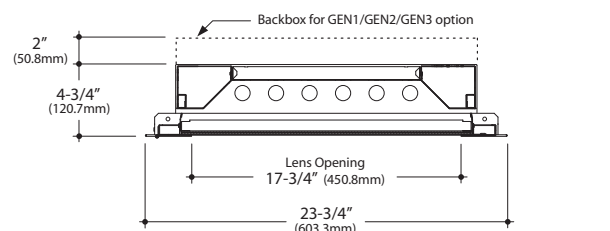
- Removable electrical gear trays, centralized wiring compartment and continuous hinged door allows simplified installation and servicing.
- One piece door frame, antimicrobial paint finish and smooth, room-side lens.
- Meets MIL-STD 461F.

Specifications

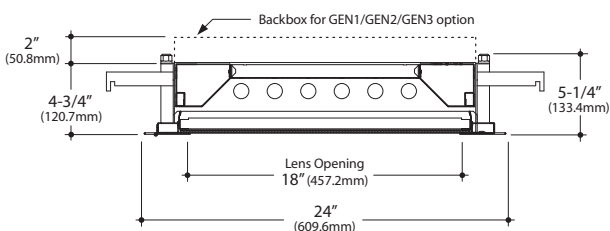
- **Construction:** Fully sealed .040" aluminum housing with white enamel finish.
- **Door Frame:** One piece door frame formed from 20 gauge cold rolled steel. Full length, stainless steel hinge option and stainless steel Phillips head screws secure frame to the housing. Screws are captive and flush to the door frame. Full length, galvanized steel brackets secure the lens to the frame. A spring loaded pin option is also available for easy access. A continuous foam gasket provides a seal between the door frame and housing.
- **Lens:** STR utilizes either an asymmetric/symmetric or symmetric dual lens assembly. The asymmetric/symmetric assembly has an asymmetric linear prism acrylic lens (with a nominal thickness of .125") positioned behind a clear acrylic lens (with a nominal thickness of .125"). The symmetric assembly has a pattern 12 prismatic acrylic lens (with a nominal thickness of .125") positioned behind the clear acrylic lens. The external clear lens provides a smooth room-side surface for easy cleaning. The entire lens assembly is secured to the door frame on all four sides with full-length galvanized steel brackets.

- **Finish:** The door frame is painted after fabrication with a white polyester powdercoat paint. The finish has an antimicrobial finish to inhibit the growth of microbes.
- **Lamps:** STR is available with T8, T5 and T5HO linear fluorescent lamps. Lamps are included with the fixture. The standard color temperature is 3500K. Other color temperatures are available upon request. See the ordering information below for further detail.
- **Electrical:** T8 lamp models have instant-start electronic ballasts. T5 and T5HO models have program start electronic ballasts. Dimming ballasts are program start electronic ballasts with a dimming range of 100-5% and operate with 0-10v controls. Compliant to IEC 60929. All standard lamp and ballast configurations have been certified for MIL-STD 461F. RFI filters are provided on all models.
- **Installation:** The grid housing is suitable for use with T-Grid ceiling systems having cross section dimensions up to 1.5" high and 1" wide. For proper door operation, grid housings must be mounted in T-Section only. Not for installation with wall molding. Optional T-Bar clips are available. The flange housing is suitable for recessed applications. Swing-out sway bars support fixtures in the ceiling structure. (See Installation Instructions for more detailed information.)
- **Listing:** UL and CUL Listed for Wet Locations. MIL-STD 461F – Navy Fixed & Air Force.
- **Warranty:** 5 year limited warranty.

Dimensions

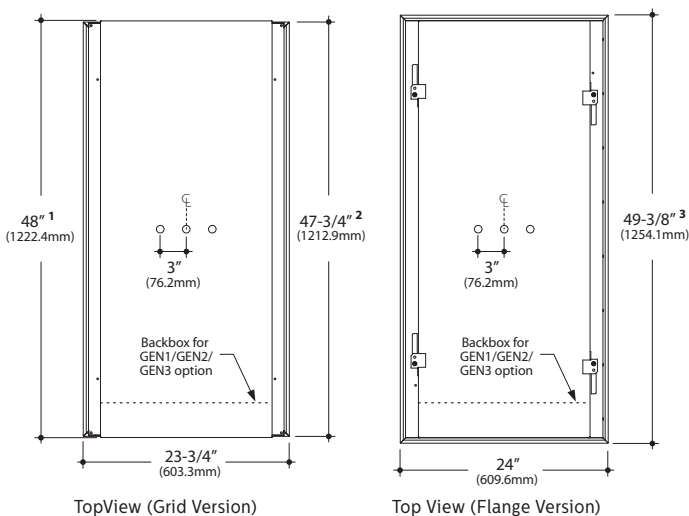


Cross Section (Grid Version)



Cross Section (Flange Version)

Note: The recommended ceiling opening for a single flange model is 22-7/8" x 48-5/16". Refer to the Installation Instructions for more detailed instructions including the ceiling opening size for multiple fixture installations.



TopView (Grid Version)

Top View (Flange Version)

¹ Housing length at lamp compartment.

² Measured at fixture trim (Recess for T-Grid).

³ Measured from flange to flange.

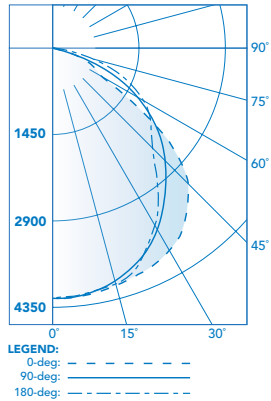
STRG24 & STRF24 SurgiCare Troffer 2x4

T8, T5, or T5HO

Photometry

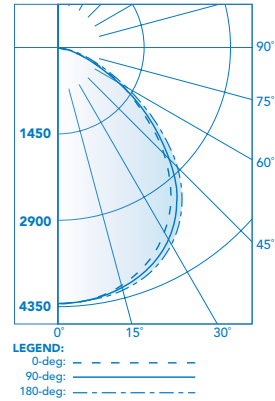
STR (F/G) 24-6-T8-ASM

(6) 32W T8 Fluorescent -
2950 lumens per lamp
Report No.: ITL62210
Efficiency: 61.6%



STR (F/G) 24-6-T8- SYM

(6) 32W T8 Fluorescent -
2950 lumens per lamp
Report No.: ITL62211
Efficiency: 58.8%



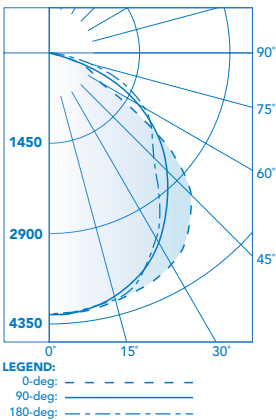
Standard Lamps & Circuits

Lamp Option	Combinations	Lamp Type
6	6 lamps, 3 circuits ① ② ③ ③ ② ①	T8, T5
6, 42"	6 lamps, 2 circuits (6 white lamps) or (4 white/2 green lamps) ① ② ② ② ② ①	T8, T5
6, 33"	6 lamps, 2 circuits (3 white/3 green lamps) ① ② ① ② ① ②	T8, T5
4, 22"	4 lamps, 2 circuits ① ② ② ①	T8, T5, T5HO
3, 21"	3 lamps, 2 circuits ① ② ①	T8, T5 T5HO

* Green Lamp options are only available with T8 lamps.
Note: Emergency ballasts have separate circuits.

STR (F/G) 24-6-T9-ASM

(6) 32W T8 Fluorescent -
2950 lumens per lamp
Report No.: ITL62210
Efficiency: 61.6%



CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc	80				70				50			30			10			0	
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	73	73	73	73	72	72	72	72	68	68	68	66	66	66	63	63	63	62
	1	68	65	63	61	66	64	62	60	61	59	58	59	57	56	57	55	54	53
	2	62	57	53	50	60	56	53	50	54	51	48	52	49	47	50	48	46	45
	3	57	51	46	42	55	50	45	42	48	44	41	46	43	40	45	42	40	38
	4	52	45	40	36	51	44	39	36	43	39	35	41	38	35	40	37	34	33
	5	48	40	35	31	47	40	35	31	38	34	31	37	33	30	36	33	30	29
	6	44	36	31	27	43	36	31	27	35	30	27	34	30	27	33	29	26	25
	7	41	33	28	24	40	33	28	24	32	27	24	31	27	24	30	26	24	22
	8	38	30	25	22	37	30	25	22	29	25	21	28	24	21	28	24	21	20
	9	36	28	23	19	35	27	23	19	27	22	19	26	22	19	25	22	19	18
	10	34	26	21	18	33	25	21	18	25	20	18	24	20	17	24	20	17	16

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle	0°	45°	90°	135°	180°
0°	4196	4196	4196	4196	4196	4196
5°	4209	4202	4194	4168	4177	4177
15°	4124	4077	4044	4036	4099	4099
25°	4012	3872	3740	3678	3709	3709
35°	3769	3582	3232	3064	3085	3085
45°	3211	3086	2667	2460	2369	2369
55°	1797	2132	2019	1993	1992	1992
65°	783	646	1223	1312	1464	1464
75°	365	370	345	562	698	698
85°	84	53	22	79	101	101
90°	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	3294	18.6	30.2
0-40	5371	30.3	49.2
0-60	9266	52.3	84.9
0-90	10912	61.6	100.0
90-120	0	0.0	0.0
0-180	10912	61.6	100.0



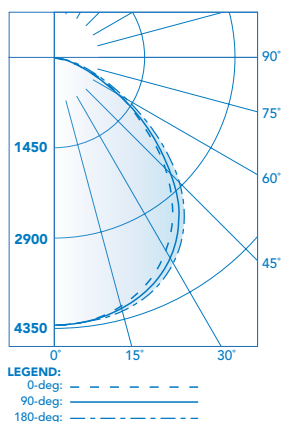
Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

STRG24 & STRF24 SurgiCare Troffer 2x4

T8, T5, or T5HO

STR (F/G) 24-6-T8-SYM

(6) 32W T8 Fluorescent -
2950 lumens per lamp
Report No.: ITL62211
Efficiency: 58.8%



CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc		80				70				50				30				10				0
rw		70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR	0	70	70	70	70	68	68	68	68	65	65	65		63	63	63		60	60	60		59
	1	65	62	60	58	63	61	59	57	59	57	55		56	55	54		54	53	52		51
	2	60	55	52	49	58	54	51	48	52	49	47		50	48	46		48	47	45		44
	3	55	49	45	41	53	48	44	41	46	43	40		45	42	40		43	41	39		38
	4	50	44	39	36	49	43	39	35	42	38	35		40	37	34		39	36	34		33
	5	47	39	35	31	45	39	34	31	38	34	30		37	33	30		35	32	30		29
	6	43	36	31	27	42	35	31	27	34	30	27		33	30	27		32	29	26		25
	7	40	33	28	24	39	32	27	24	31	27	24		30	27	24		30	26	24		23
	8	37	30	25	22	36	29	25	22	29	24	22		28	24	21		27	24	21		20
	9	35	27	23	20	34	27	23	20	26	22	19		26	22	19		25	22	19		18
	10	33	25	21	18	32	25	21	18	24	20	18		24	20	18		23	20	18		17

CANDLEPOWER DISTRIBUTION

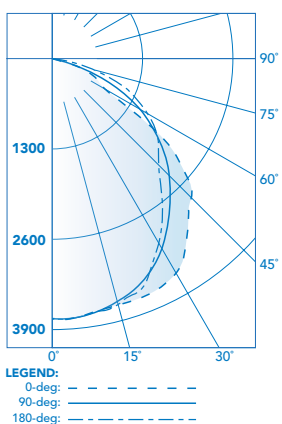
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	4285	4285	4285	4285	4285
5°	4275	4273	4271	4276	4277
15°	4123	4133	4162	4194	4206
25°	3803	3837	3909	3976	4000
35°	3277	3333	3434	3504	3555
45°	2512	2533	2636	2750	2828
55°	1603	1634	1676	1793	1825
65°	867	825	796	870	910
75°	376	340	324	372	419
85°	63	66	69	78	76
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	3384	19.1	32.5
0-40	5523	31.2	53.1
0-60	9086	51.3	87.3
0-90	10407	58.8	100.0
90-180	0	0.0	0.0
0-180	10407	58.8	100.0

STR (F/G) 24-4-T5HO-ASM

(4) 54W T5HO Fluorescent -
4500 lumens per lamp
Report No.: ITL62213
Efficiency: 54.6%



CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc		80				70				50				30				10				0
rw		70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR	0	65	65	65	65	64	64	64	64	61	61	61		58	58	58		56	56	56		55
	1	60	58	55	54	59	56	54	53	54	52	51		52	51	49		50	49	48		47
	2	55	51	47	44	53	50	46	44	48	45	43		46	44	42		44	43	41		40
	3	50	45	41	37	49	44	40	37	42	39	36		41	38	36		39	37	35		34
	4	46	40	35	32	45	39	35	32	38	34	31		37	33	31		35	33	30		29
	5	42	36	31	27	41	35	31	27	34	30	27		33	29	27		32	29	26		25
	6	39	32	27	24	38	32	27	24	31	27	24		30	26	24		29	26	23		22
	7	36	29	25	21	35	29	24	21	28	24	21		27	24	21		26	23	21		20
	8	34	27	22	19	33	26	22	19	26	22	19		25	21	19		24	21	19		18
	9	32	25	20	17	31	24	20	17	24	20	17		23	19	17		22	19	17		16
	10	30	23	18	16	29	22	18	16	22	18	15		21	18	15		21	18	15		14

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	3740	3740	3740	3740	3740
5°	3744	3745	3737	3744	3739
15°	3668	3623	3619	3596	3653
25°	3635	3483	3359	3300	3348
35°	3335	3258	2902	2741	2763
45°	2833	2696	2382	2179	2167
55°	1848	1960	1802	1800	1830
65°	725	601	1094	1189	1324
75°	338	338	309	512	651
85°	73	54	25	80	110
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2950	16.4	30.0
0-40	4810	26.7	48.9
0-60	8324	46.2	84.6
0-90	9836	54.6	100.0
90-120	0	0.0	0.0
0-180	9836	54.6	100.0

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