

PHILIPS Day-Brite CFI

Healthcare

SurgiCare Troffer 2x2

STRG22 & STRF22
T8, T5, T5HO, or TT5



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: **SSTRG226T82773HALPDSTA1ASMEM1**

Model No.		No of Lamps*	Lamp Type	Voltage	No. of Circuits	Housing Material	Door Frame Material	Door Mounting	Lens	Options
						HAL	DST			
STRG22	SurgiCare 2x2 Grid model	2 ¹ 3 ¹ 4 ² 6 ³	T8 F17T8 T8U FB031T8 T5 F14T5 40TT 40WTT5 T5HO F24T5HO	120 277	1 ⁶ 2 ⁶ 3 ^{6,7}	HAL .040" aluminum	DST 20 ga. cold rolled steel	A1 Stainless steel hinge/ screws A2 Stainless steel screws/ dual aircraft safety cables	ASM Asymmetric/ symmetric lens SYM Symmetric lens	EM1 ^{8,9} 1-lamp emergency ballast battery back-up (90 min.) 1/2 One 2-lamp ballast 2/1 Two 1-lamp ballasts 1/21 2-lamp & 1-lamp ballasts 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 ⁵ Electronic dimming ballast EB10R Elec. ballast, program rapid start, <10% THD SBF Slow blow fuse TBC T-bar support clips
STRF22	SurgiCare 2x2 Flange model	21 ⁴ 3 lamps (2 white / 1 green) 22 ⁴ 4 lamps (2 white / 2 green) 33 ⁴ 6 lamps (3 white / 3 green) 42 ⁴ 6 lamps (4 white / 2 green)								

Footnotes

- * See standard lamp chart on page 3.
- 1 Available for T8 U-lamp and 40TT models only.
- 2 Available for T8, T5, and T5HO models only.
- 3 Available for T8 and T5 models only.
- 4 Available for T8 only.
- 5 Available for T8 (3, 4, 6, 21, 22 and 33 lamp configurations), all T8U and T5 (4 lamp configurations) only.
- 6 Must specify ballast quantity and type listed under options.
- 7 Not available for 3-lamp T5 models.
- 8 UL Listed (not CUL).
- 9 Available for 2-lamp T8U and 40TT models and 3-lamp T8 and T8U (1 circuit) models only.

STRG22 & STRF22 SurgiCare Troffer 2x2

T8, T5, T5HO, or TT5

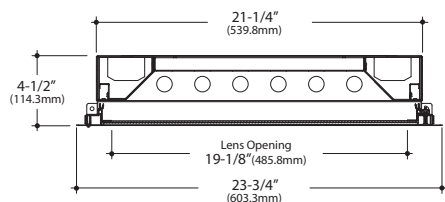
Features

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

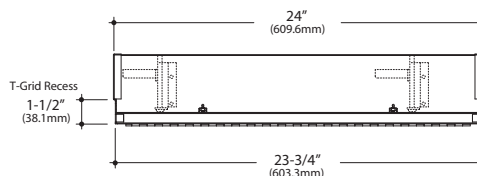
Specifications

- **Construction:** Formed .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 Philips 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, T5HO, T8U (1-5/8" center) and 40WTT5 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 and T8U lamp models have instant-start electronic ballasts. 40WTT5 lamp ballasts are instant start or program start with end-of-life protection. 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. For other custom T-bar ceiling, consult factory for assistance. 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 Damp Locations. MIL-STD 461F – Navy Fixed & Air Force.
- **Warranty:** 5 year limited warranty.

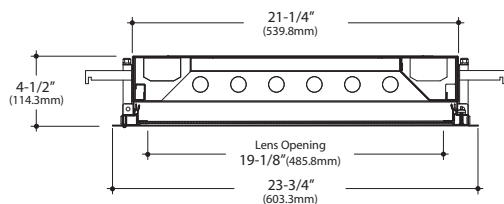
Dimensions



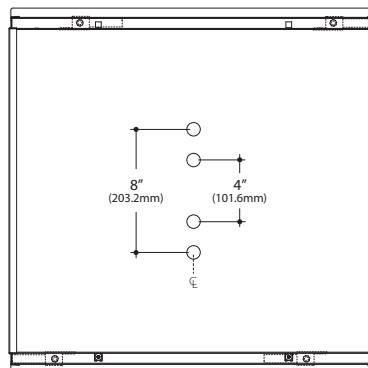
Cross Section (Grid Version)



Side View (Grid and Flange Version)



Cross Section (Flange Version)



Top View (Grid and Flange Version)

Note: The recommended ceiling opening for a single flange model is 22-7/8" x 24-5/8" Refer to the Installation Instructions for more detailed instructions including the ceiling opening size for multiple fixture installations.

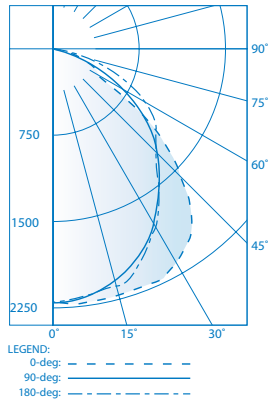
STRG22 & STRF22 SurgiCare Troffer 2x2

T8, T5, T5HO, or TT5

Photometry

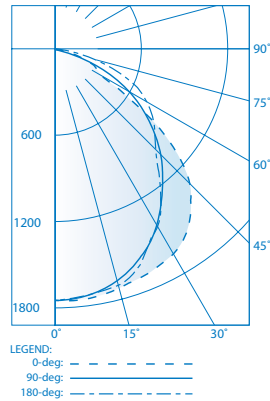
STR (F/G) 22-3-40TT-ASM

(3) 40WTT5 Fluorescent -
3300 lumens per lamp
Report No.: ITL62206
Efficiency: 54.9%



STR (F/G) 22-6-T8-ASM

(6) 17W T8 Fluorescent -
1400 lumens per lamp
Report No.: ITL62207
Efficiency: 52.2%



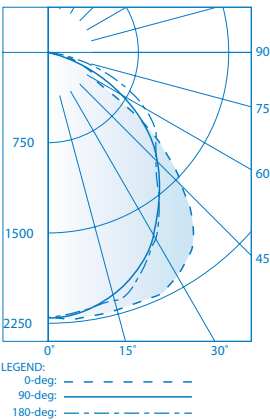
Standard Lamps & Circuits

Lamp Option	Combinations	Lamp Type
6	6 lamps, 3 circuits ① ② ③ ③ ② ①	T8, T5
42*	6 lamps, 2 circuits (6 white lamps) or (4 white/2 green lamps) ① ② ② ② ② ①	T8, T5
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, T8U, 40TT, T5, T5HO

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

STR (F/G) 22-3-40TT-ASM

(3) 40WTT5 Fluorescent -
3300 lumens per lamp
Report No.: ITL62206
Efficiency: 54.9%



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	56	54	59	57	55	53	55	53	52	52	51	50	51	50	49	47	
2	55	51	48	45	54	50	47	45	48	46	44	47	44	43	45	43	42	40	
3	51	46	41	38	50	45	41	38	43	40	37	42	39	36	40	38	36	35	
4	47	41	36	33	46	40	36	32	39	35	32	37	34	32	36	33	31	30	
5	43	36	32	28	42	36	32	28	35	31	28	34	30	28	33	30	27	26	
6	40	33	28	25	39	32	28	25	32	28	25	31	27	24	30	27	24	23	
7	37	30	25	22	36	30	25	22	29	25	22	28	24	22	27	24	22	21	
8	35	27	23	20	34	27	23	20	26	22	20	26	22	20	25	22	19	18	
9	32	25	21	18	32	25	21	18	24	20	18	24	20	18	23	20	18	17	
10	30	23	19	16	30	23	19	16	22	19	16	22	19	16	21	18	16	15	

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle	0°	45°	90°	135°	180°
0°		2204	2204	2204	2204	2204
5°		2228	2203	2189	2185	2177
15°		2215	2162	2081	2087	2134
25°		2217	2065	1894	1864	1924
35°		2047	1895	1587	1547	1604
45°		1569	1556	1278	1217	1265
55°		842	911	915	990	1077
65°		404	296	485	607	735
75°		196	168	111	226	321
85°		43	24	11	29	36
90°		0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1720	17.4	31.7
0-40	2792	28.2	51.4
0-60	4689	47.4	86.3
0-90	5433	54.9	100.0
90-120	0	0.0	0.0
0-180	5433	54.9	100.0



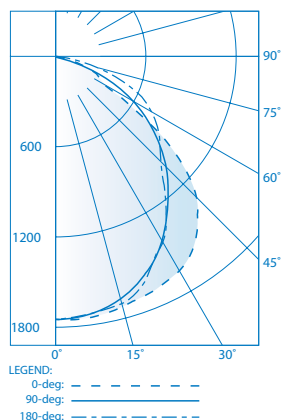
Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and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

STRG22 & STRF22 SurgiCare Troffer 2x2

T8, T5, T5HO, or TT5

STR (F/G) 22-6-T8-ASM

(6) 17W T8 Fluorescent -
1400 lumens per lamp
Report No.: ITL62207
Efficiency: 52.2%



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	62	62	62	62	61	61	61	61	58	58	58	56	56	56	53	53	53	52
	1	57	55	53	51	56	54	52	50	52	50	49	50	49	47	48	47	46	45
	2	53	49	45	43	51	48	45	42	46	43	41	44	42	40	43	41	39	38
	3	48	43	39	36	47	42	39	36	41	38	35	39	37	34	38	36	34	33
	4	44	38	34	31	43	38	34	31	36	33	30	35	32	30	34	31	29	28
	5	41	34	30	27	40	34	30	27	33	29	26	32	29	26	31	28	26	25
	6	38	31	27	23	37	31	26	23	30	26	23	29	25	23	28	25	23	22
	7	35	28	24	21	34	28	24	21	27	23	21	26	23	20	26	23	20	19
	8	33	26	22	19	32	25	21	19	25	21	18	24	21	18	24	20	18	17
	9	31	24	20	17	30	23	19	17	23	19	17	22	19	17	22	19	16	16
	10	29	22	18	15	28	22	18	15	21	18	15	21	17	15	20	17	15	14

CANDLEPOWER DISTRIBUTION

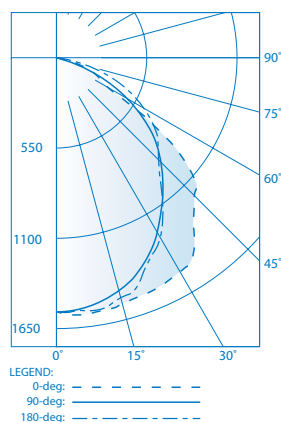
Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1745	1745	1745	1745	1745
5°	1750	1744	1740	1737	1729
15°	1720	1701	1662	1672	1699
25°	1674	1598	1514	1492	1519
35°	1582	1466	1284	1240	1285
45°	1317	1238	1041	984	986
55°	735	813	758	791	836
65°	320	246	429	515	615
75°	158	142	103	214	304
85°	40	25	10	32	46
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1357	16.2	30.9
0-40	2204	26.2	50.3
0-60	3749	44.6	85.5
0-90	4384	52.2	100.0
90-180	0	0.0	0.0
0-180	4384	52.2	100.0

STR (F/G) 22-4-T5HO-ASM

(4) 24W T5HO Fluorescent -
1800 lumens per lamp
Report No.: ITL62208
Efficiency: 53.2%



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	63	63	63	63	62	62	62	62	59	59	59	57	57	57	54	54	54	53
	1	59	56	54	53	57	55	53	52	53	51	50	51	50	49	49	48	47	46
	2	54	50	47	44	52	49	46	43	47	44	42	45	43	41	44	42	40	39
	3	49	44	40	37	48	43	40	37	42	39	36	40	38	35	39	37	35	34
	4	45	39	35	32	44	39	35	31	37	34	31	36	33	31	35	32	30	29
	5	42	35	31	28	41	35	31	27	34	30	27	33	29	27	32	29	27	25
	6	39	32	27	24	38	31	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	31	24	20	17	31	24	20	17	24	20	17	23	20	17	22	19	17	16
	10	29	23	18	16	29	22	18	16	22	18	16	21	18	16	21	18	16	15

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1548	1548	1548	1548	1548
5°	1573	1566	1537	1547	1544
15°	1552	1525	1469	1482	1510
25°	1527	1427	1325	1301	1347
35°	1453	1313	1113	1059	1125
45°	1187	1063	896	839	880
55°	742	725	646	680	728
65°	288	220	344	404	495
75°	131	120	74	147	220
85°	32	17	6	15	17
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1208	16.8	31.5
0-40	1956	27.2	51.0
0-60	3319	46.1	86.6
0-90	3832	53.2	100.0
90-120	0	0.0	0.0
0-180	3832	53.2	100.0

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