

PHILIPS Day-Brite CFI

Healthcare

SurgiCare Sealed Troffer 2x2

SSTRG22 & SSTRF22
T8, T5, T5HO, or TT5



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

The Philips Day-Brite / CFI SurgiCare Sealed 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. The housing is fully sealed to minimize potential room contamination and simplify cleaning.

Ordering guide

example: **SSTRG226T82773HALPDSTA1ASMEM1**

Model No.	No of Lamps*	Lamp Type	Voltage	No. of Circuits	Housing Material	Door Frame Material	Door Mounting	Lens	Options
					HALP				
SSTRG22 SurgiCare Sealed 2x2 Grid model	2¹ 3 4² 6³	T8 F17T8 T8U FB031T8 T5 F14T5 40TT 40WTT5 T5HO F54T5HO	120 277 120D⁵ (0-10V dimming) 277D⁵ (0-10V dimming)	1⁶ 2⁵ 3^{6,7}	HALP .050" aluminum	DST 18 ga. cold rolled steel DALS Painted silver extruded aluminum DALP Painted white extruded aluminum	A1 Stainless steel hinge/screws A2 Stainless steel screws/dual aircraft safety cables	ASM Asymmetric/symmetric lens SYM Symmetric lens	EM1⁸ 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 Electronic dimming ballast EB10I T8 electronic ballast, instant start, <10% THD EB10R Elec. ballast, program rapid start, <10% THD SBF Slow blow fuse TBC T-bar support clips
SSTRF22 SurgiCare Sealed 2x2 Flange model	21⁴ 3 lamps (2 white / 1 green) 22⁴ 4 lamps (2 white / 2 green) 33⁴ 6 lamps (3 white / 3 green) 42⁴ 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 models 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 Available for T8 (6 and 42 lamp configurations) non-dimming models only.
- 8 UL Listed (not CUL).

SSTRG22 & SSTRF22 SurgiCare Sealed Troffer 2x2

T8, T5, T5HO, or T8U

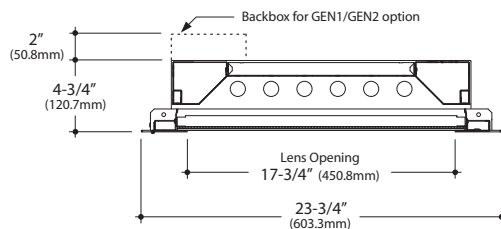
Features

- 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, wet location listed and is IP65 rated.

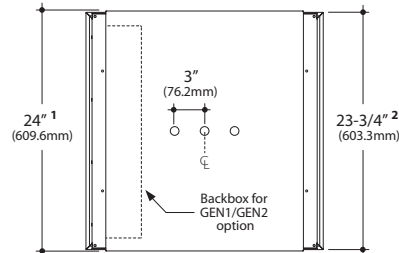
Specifications

- **Construction:** Fully sealed .050" aluminum housing with seam welded construction. Housing painted after fabrication.
- **Door Frame:** Seamless door frame formed from 18 gauge cold rolled steel. Full length, stainless steel hinge 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 continuous high density microcellular polyurethane foam gasket provides a seal between the door frame and housing.
- **Lens:** SSTR utilizes either an asymmetric or symmetric dual lens assembly. The asymmetric 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 and is sealed to the door frame with a continuous bead of silicone sealant. The entire lens assembly is secured to the door frame on all four sides with full-length galvanized steel brackets.
- **Finish:** The housing and door frame are painted after fabrication with a white polyester powdercoat paint. The finish has an antimicrobial finish to inhibit the growth of microbes.
- **Lamps:** SSTR 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 IEC60929. 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. IP65 rated.
- **Warranty:** 5 year limited warranty.

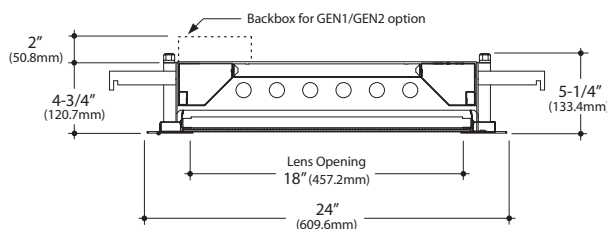
Dimensions



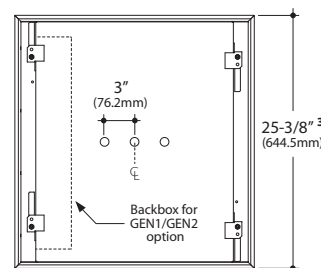
Cross Section (Grid Version)



Top View (Grid Version)



Cross Section (Flange Version)



Top View (Flange Version)

Note: The recommended ceiling opening for a single flange model is 22-7/8" x 24-5/16". Refer to the Installation Instructions for more detailed instructions including the ceiling opening size for multiple fixture installations.

¹ Housing length at lamp compartment.

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

³ Measured from flange to flange.

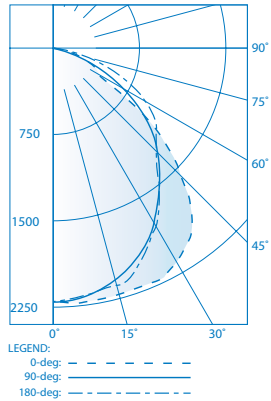
SSTRG22 & SSTRF22 SurgiCare Sealed Troffer 2x2

T8, T5, T5HO, or TT5

Photometry

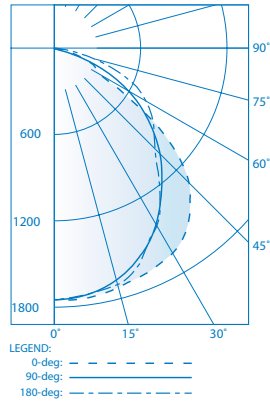
SSTR (F/G) 22-3-40TT-ASM

(3) 40W T5 Fluorescent -
3300 lumens per lamp
Report No.: ITL62206
Efficiency: 54.9%



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

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



Standard Lamps & Circuits

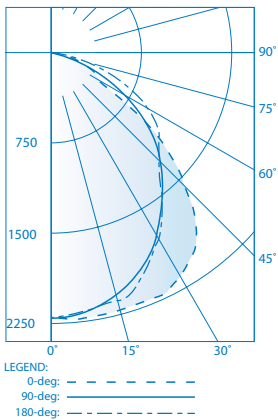
Lamp Option	Combinations	Lamp Type
6	6 lamps, 3 circuits 	T8, T5
42'	6 lamps, 2 circuits (6 white lamps) or (4 white/2 green lamps) 	T8, T5
33'	6 lamps, 2 circuits (3 white/3 green lamps) 	T8, T5
4, 22'	4 lamps, 2 circuits 	T8, T5, T5HO
3, 21'	3 lamps, 2 circuits 	T8, T8U, 40TT, T5, T5HO

* Green Lamp options are only available with T8 lamps.

Note: Emergency ballasts have separate circuits.

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

(3) 40W T5 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	61	61	61	58	58	58	56	56	56	55
	1	60	58	56	54	59	57	55	55	53	52	52	51	50	51	50	49	47
	2	55	51	48	45	54	50	47	48	46	44	47	44	43	45	43	42	40
	3	51	46	41	38	50	45	41	43	40	37	42	39	36	40	38	36	35
	4	47	41	36	33	46	40	36	39	35	32	37	34	32	36	33	31	30
	5	43	36	32	28	42	36	32	35	31	28	34	30	28	33	30	27	26
	6	40	33	28	25	39	32	28	32	28	25	31	27	24	30	27	24	23
	7	37	30	25	22	36	30	25	29	25	22	28	24	22	27	24	22	21
	8	35	27	23	20	34	27	23	26	22	20	26	22	20	25	22	19	18
	9	32	25	21	18	32	25	21	24	20	18	24	20	18	23	20	18	17
	10	30	23	19	16	30	23	19	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	3690°
0		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



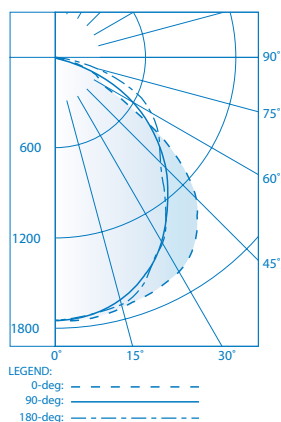
Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and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

SSTRG22 & SSTRF22 SurgiCare Sealed Troffer 2x2

T8, T5, T5HO, or TT5

SSTR (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

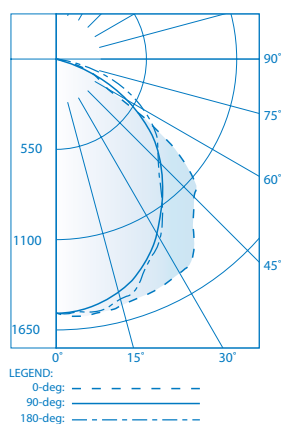
Vertical Angle	Horizontal Angle	0°	45°	90°	135°	180°
0°	1745	1745	1745	1745	1745	1745
5°	1750	1744	1740	1737	1729	1729
15°	1720	1701	1662	1672	1699	1699
25°	1674	1598	1514	1492	1519	1519
35°	1582	1466	1284	1240	1285	1285
45°	1317	1238	1041	984	986	986
55°	735	813	758	791	836	836
65°	320	246	429	515	615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

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