

PHILIPS Day-Brite CFI

Healthcare

SurgiCare
Troffer 1x4

STRG14 & STRF14
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: STRG143T82772HALDSTA1ASMEM1

Model No.	No of Lamps*	Lamp Type	Voltage	No. of Circuits	Housing Material	Door Frame Material	Door Mounting	Lens	Options
					HAL	DST			
STRG14	SurgiCare 1x4 Grid model	2 3 ¹ 21 ² 3 lamps (2 white / 1 green)	T8 F32 T8 T5 F14T5 T5HO F54 T5HO	1 ⁴ 2 ^{1,4}	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 2-lamp emergency ballast battery back-up (90 min.) 1/2 One 2-lamp ballast 1/3 One 3-lamp ballast 2/1 Two 1-lamp ballasts 1/21 2-lamp & 1-lamp ballasts EB Electronic ballast, <20% THD EBD ³ Electronic dimming ballast EB10R Elec. ballast, program rapid start, <10% THD SBF Slow blow fuse TBC T-bar support clips
STRF14	SurgiCare 1x4 Flange model								

Footnotes

- * See standard lamp chart on page 3.
- 1 Not available for T5HO models.
- 2 Available for T8 models only.
- 3 Not available for T5 models.
- 4 Must specify ballast quantity and type listed under options.
- 5 UL Listed (not CUL)

STRG14 & STRF14 SurgiCare Troffer 1x4

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:** 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 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 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. 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.

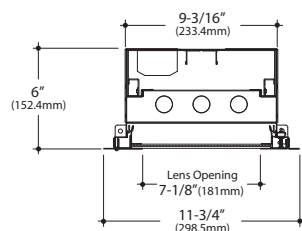
• **Lamps:** STR is available with T8, T5 and T5HO linear fluorescent lamps. Lamps are included with the fixture. The standard color temperature is 3500K. Other color temperatures are available upon request. See the ordering information below for further detail.

• **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.

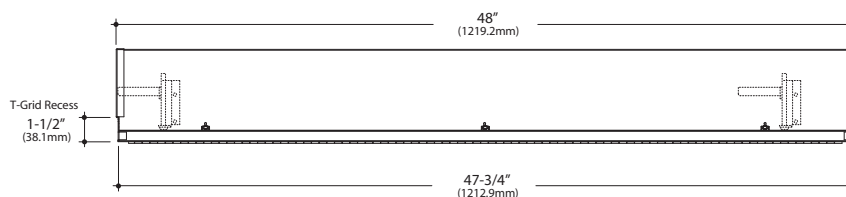
• **Installation:** The grid housing is suitable for use with T-Grid ceiling systems having cross section dimensions up to 1.5" high and 1" wide. For proper door operation, grid housings must be mounted in T-Section only. Not for installation with wall molding. For other custom T-bar ceiling, consult 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. The fixture is also IBEW labeled.

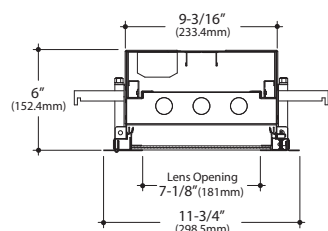
Dimensions



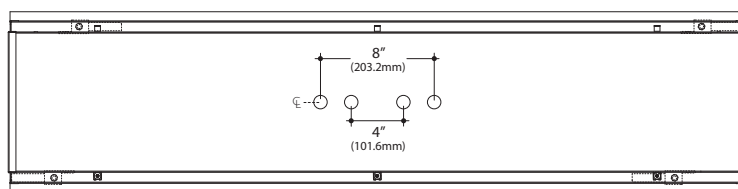
Cross Section (Grid Version)



SideView (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 10-7/8" x 48-5/8". Refer to the Installation Instructions for more detailed instructions including the ceiling opening size for multiple fixture installations.

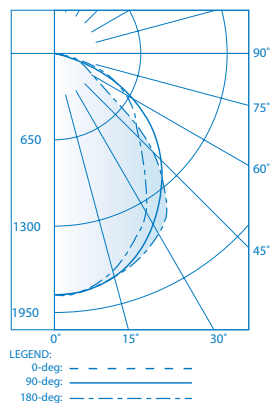
STRG14 & STRF14 SurgiCare Troffer 1x4

T8, T5, or T5HO

Photometry

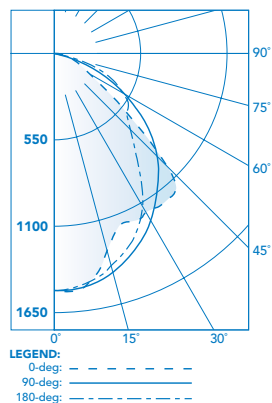
STR (F/G) 14-3-T8-ASM

(3) 32W T8 Fluorescent -
2950 lumens per lamp
Report No.: ITL62209
Efficiency: 48.8%



STR (F/G) 14-2-T5HO-ASM

(2) 54W T5HO Fluorescent -
4500 lumens per lamp
Report No.: ITL62212
Efficiency: 38.3%



Standard Lamps & Circuits

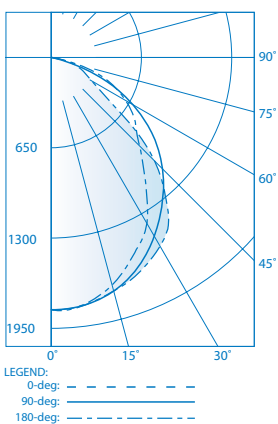
Lamp Option	Combinations	Lamp Type
3, 21'	3 lamps, 2 circuits 	T8, T5

* Green Lamp options are only available with T8 lamps.

Note: Emergency ballasts have separate circuits.

STR (F/G) 14-3-T8-ASM

(3) 32W T8 Fluorescent -
2950 lumens per lamp
Report No.: ITL62209
Efficiency: 48.8%



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	50	30	10	0
RCR 0	58	58	58	58	57	57	57	57	54	54	54	52	52	52	50	50	50	49	49	49	49
1	54	52	50	48	52	50	49	47	48	47	46	47	45	44	45	44	43	42	42	42	42
2	49	46	43	40	48	45	42	39	43	41	39	41	39	38	40	38	37	36	36	36	36
3	45	40	37	34	44	40	36	33	38	35	33	37	34	32	36	34	32	31	31	31	31
4	42	36	32	29	40	35	32	29	34	31	28	33	30	28	32	30	28	27	27	27	27
5	38	32	28	25	37	32	28	25	31	27	25	30	27	25	29	26	24	23	23	23	23
6	35	29	25	22	35	29	25	22	28	25	22	27	24	22	26	24	22	21	21	21	21
7	33	27	23	20	32	26	22	20	26	22	20	25	22	19	24	21	19	18	18	18	18
8	31	24	20	18	30	24	20	18	23	20	18	23	20	17	22	19	17	16	16	16	16
9	29	22	19	16	28	22	18	16	22	18	16	21	18	16	21	18	16	15	15	15	15
10	27	21	17	15	26	21	17	15	20	17	14	20	17	14	19	16	14	14	14	14	14

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1815	1815	1815	1815	1815
5°	1815	1806	1811	1805	1809
15°	1742	1733	1742	1702	1699
25°	1642	1616	1591	1503	1494
35°	1472	1449	1375	1247	1199
45°	1055	1162	1136	977	907
55°	466	647	848	782	723
65°	275	271	509	505	514
75°	150	153	136	205	227
85°	42	27	14	33	36
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1383	15.6	32.1
0-40	2229	25.2	51.6
0-60	3691	41.7	85.5
0-90	4316	48.8	100.0
90-120	0	0.0	0.0
0-180	4316	48.8	100.0



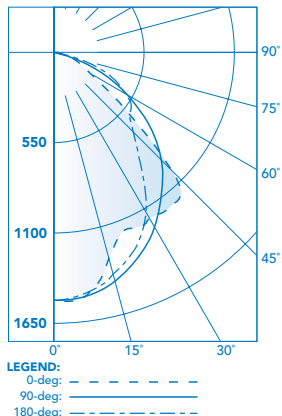
Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and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

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T8, T5, or T5HO

STR (F/G) 14-2-T5HO-ASM

(2) 54W T5HO Fluorescent -
4500 lumens per lamp
Report No.: ITL62212
Efficiency: 38.3%



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	50	30	10	0
RCR	0	46	46	46	46	45	45	45	45	43	43	43	41	41	41	39	39	39	39	39	38
1	42	41	39	38	41	40	38	37	38	37	36	37	36	35	37	36	35	35	35	34	33
2	39	36	33	31	38	35	33	31	34	32	30	33	31	30	31	30	29	31	30	29	28
3	36	32	29	27	35	31	29	26	30	28	26	29	27	25	28	26	25	28	26	25	24
4	33	28	25	23	32	28	25	23	27	24	22	26	24	22	25	23	22	25	23	22	21
5	30	26	22	20	29	25	22	20	24	22	20	24	21	19	23	21	19	23	21	19	18
6	28	23	20	17	27	23	20	17	22	19	17	21	19	17	21	19	17	21	19	17	16
7	26	21	18	16	25	21	18	15	20	17	15	20	17	15	19	17	15	19	17	15	14
8	24	19	16	14	24	19	16	14	18	16	14	18	16	14	18	16	14	18	15	14	13
9	23	18	15	13	22	17	15	13	17	14	12	17	14	12	16	14	12	16	14	12	12
10	21	16	13	11	21	16	13	11	16	13	11	15	13	11	15	13	11	15	13	11	11

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	1507	1507	1507	1507	1507
5°	1514	1506	1504	1494	1492
15°	1293	1389	1438	1406	1394
25°	1176	1137	1309	1244	1240
35°	1179	1058	1124	1025	952
45°	1016	1008	922	774	681
55°	400	576	655	596	571
65°	196	210	379	404	417
75°	100	113	106	166	183
85°	30	18	8	26	27
90°	0	0	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1103	12.3	32.0
0-40	1766	19.6	51.2
0-60	2961	32.9	85.9
0-90	3449	38.3	100.0
90-180	0	0.0	0.0
0-180	3449	38.3	100.0

