

2' X 4'
4 or 6 Lamp
T8 or T12

With PSI Asymmetric IV RFI Lens

APPLICATION

- For use in surgical areas.
- Recommended for pattern mounting to eliminate shadows on horizontal surfaces.
- Premium quality recessed static troffer for:
 - Grid inverted T (NEMA "G")
 - Flange-type for concealed mechanical suspension (NEMA "F")

CONSTRUCTION/FINISH

- One piece body construction (including end caps) minimizes leakage of radiated waves and prevents interference with sensitive monitoring and recording devices.
- Housing and door painted after fabrication with white polyester powder finish.
- Access plate (2 K.O.'s) factory installed includes grounding screw.

SIDE MOUNTED BALLASTS

- Reduce ballast operating temperatures.
- Increase average ballast life.

ELECTRICAL

- Class P, HPF, CBM certified ballasts comply with Federal Ballast Law (Public Law 100-357, 1988).
- UL listed for damp locations. C.S.A. certified optional.
- If RFI line filters are required, use the appropriate suffix shown below.

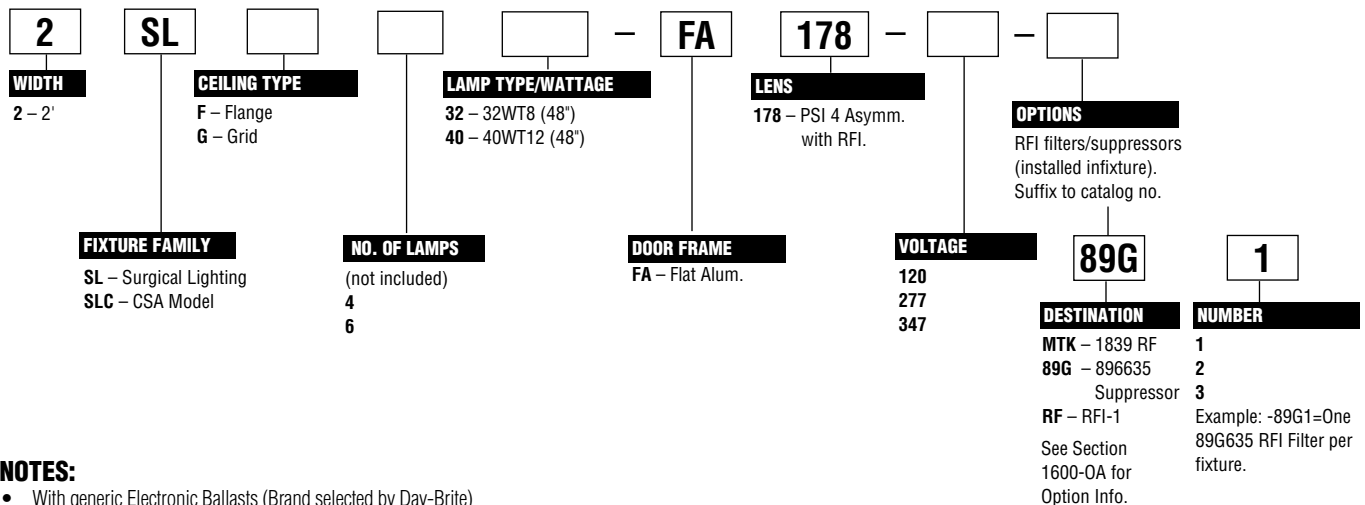
ENCLOSURES

- Lens is a pattern prismatic acrylic PSI Asymmetric IV with a radio frequency interference grid that is grounded.
- Light distribution is asymmetrical perpendicular to lamps.
- Flat aluminum (painted white) door frames with mitered corners are standard.
- Door frames standard with guide post spring loaded latches.

PATTERN MOUNTING

- For fixtures mounted in a pattern, please supply pattern detail and ceiling type when placing order.

CATALOG NUMBER



NOTES:

- With generic Electronic Ballasts (Brand selected by Day-Brite)
Suffix Catalog # with— **Ballast Quantity** — / — **-EB Lamps Per Ballast.**

Example: -1/2-EB = One 2 Lamp Electronic Ballast.

Example: -1/3-EB = One 3 Lamp Electronic Ballast.

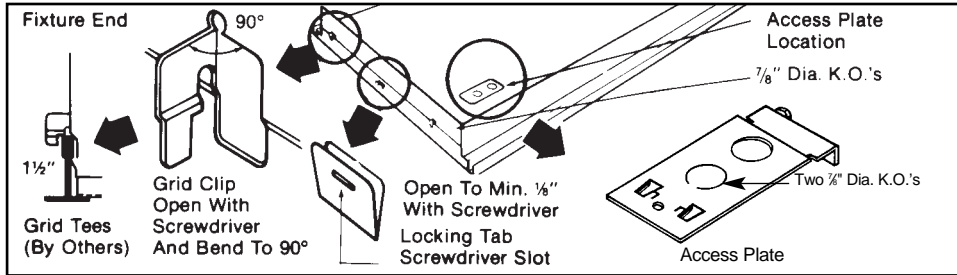
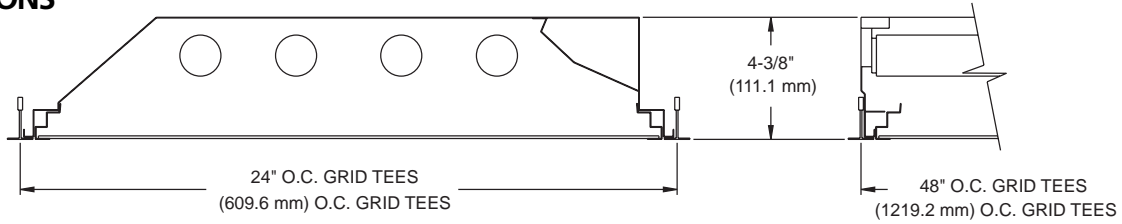
- Fixtures that meet the requirements MIL-STD-461A, 462 and 463 for eliminating radio frequency interference must be ordered with magnetic ballast and one MTK RFI line filter per ballast.
- Fixtures with electronic ballasts do not meet MIL-STD-461A, 462 and 463.

JOB INFORMATION

728-SA

2' X 4' SURGICAL LIGHTING

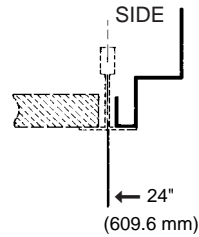
DIMENSIONS



2 **SL** **G** **4** **32**

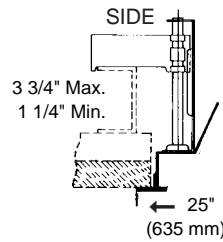
CEILING TYPE

G = GRID (NEMA G)



(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 24" x 48" spacing.

F = FLANGE (NEMA F)



(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 3 3/4" max. and 1 1/4" min.

PHOTOMETRIC DATA

CATALOG #2SLG432-FA178
TEST #17606

LAMPS = F32 T8
BALLAST = MAGNETIC

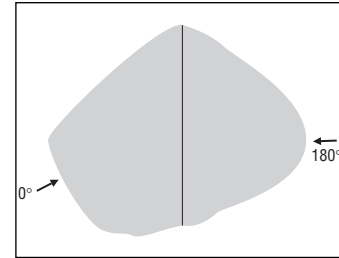
INPUT WATTS = 142
BALLAST FACTOR = .95

LER = FL-53

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$4.53** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 67.8%

CANDLEPOWER DISTRIBUTION									
Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
5	3133	3150	3154	3123	3068	3034	3002	2992	2978
15	3271	3281	3251	3123	2966	2893	2923	3004	3037
25	3076	3123	3192	3050	2795	2671	2791	2860	2864
35	2649	2712	2766	2880	2490	2369	2386	2526	2650
45	1960	1934	1871	2408	1989	1935	1901	1844	1785
55	1128	1147	1222	1461	1449	1161	1113	1043	1003
65	613	636	661	707	765	649	598	541	563
75	338	340	371	328	250	302	319	376	407
85	127	121	134	116	28	74	133	130	136



LIGHT DISTRIBUTION							
ZONE	FRONT 0°		BACK 180°		0-360		%
	LUMENS	% LAMP	LUMENS	% LAMP	LUMENS	% LAMP	
FIXTURE							
0-30	1313	11.3	1206	10.4	2519	21.7	32.0
0-40	2172	18.7	1978	17.0	4150	35.8	52.8
0-60	3542	30.5	3214	27.7	6756	58.2	85.9
0-90	4120	35.5	3743	32.3	7863	67.8	100.0
90-180	0	.0	0	0	0	0	0
0-180	4120	35.5	3743	32.3	7863	67.8	100.0

AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS			
ANGLE	0°	90°	180°
45	4294	4443	3910
55	3046	4050	2708
65	2246	3074	2063
75	2021	1668	2434
85	2250	585	2410

SPACING CRITERIA 0=1.4 90=1.3 180=1.3

LLF = .79 LLF = LIGHT LOSS FACTOR LLD = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.95 MAGNETIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

Room and Other Data for Point by Point Layout Shown Below

Room Size: 30' x 20' x 10'

This rectangular pattern consists of

Reflectances: 80% Ceiling, 50% Wall, 20% Floor

8 fixtures arranged as shown below

Work Plane: 3'

Illuminance (Footcandles)

Catalog # 2SLG432-FA178
Lamps: 4-32WT8
Ballast: Magnetic
LLF: 0.75

The maintained footcandle levels shown below (Average, Minimum, Maximum) are based on the entire 14' x 10' area shown below.
Average: 156 Minimum: 84 Maximum: 215

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ABSOLUTE X – COORDINATE(S)

	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00
15.00	84.0	97.2	111	124	134	140	141	141	141	140	134	124	111	97.2	84.1
14.00	96.7	112	128	143	154	159	160	160	160	159	154	143	128	112	96.7
13.00	109	126	144	161	173	178	179	179	179	178	173	161	144	126	109
12.00	120	139	159	178	191	197	198	198	198	197	191	178	159	139	120
11.00	128	149	170	190	204	210	211	211	211	210	204	190	170	149	128
10.00	131	152	174	194	208	214	215	215	215	214	208	194	174	152	131
9.00	128	149	170	190	204	210	211	211	211	210	204	190	170	149	128
8.00	120	139	159	178	191	197	198	197	198	197	191	178	159	139	120
7.00	109	126	144	161	173	178	179	179	179	178	173	161	144	126	109
6.00	96.6	112	127	142	154	159	160	159	160	159	154	142	127	112	96.6
5.00	83.9	97.1	111	124	134	140	141	140	141	140	134	124	111	97.1	84.0

THESE PHOTOMETRIC RESULTS WERE OBTAINED IN THE THOMAS LIGHTING C. & I. DIVISION LABORATORY WHICH IS NVLAP ACCREDITED BY THE NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY



2' x 4' SURGICAL LIGHTING 6 LAMP



PHOTOMETRIC DATA

CATALOG #2SLG632-FA178
TEST #17605

LAMPS = F32 T8
BALLAST = MAGNETIC

INPUT WATTS = 205
BALLAST FACTOR = .95

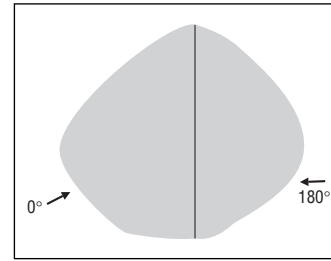
LER = FL-48

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$5.00 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 59.7%

CANDLEPOWER DISTRIBUTION									
Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
5	4134	4152	4158	4136	4136	4139	4151	4145	4145
15	4208	4216	4158	4066	4011	4034	4092	4167	4179
25	4013	4033	4051	3910	3784	3773	3892	3844	3807
35	3492	3523	3527	3579	3372	3369	3228	3516	3589
45	2666	2669	2749	2872	2729	2583	2609	2216	2067
55	1510	1584	1667	1893	1964	1611	1419	1210	1157
65	823	861	891	881	975	878	767	650	659
75	456	454	502	410	324	409	404	445	477
85	190	180	194	138	39	101	154	127	128

LIGHT DISTRIBUTION							
ZONE	FRONT 0°		BACK 180°		0-360		
FIXTURE	LUMENS	% LAMP	LUMENS	% LAMP	LUMENS	% LAMP	%
0-30	1703	9.8	1662	9.6	3365	19.3	32.4
0-40	2808	16.1	2726	15.7	5534	31.8	53.3
0-60	4650	26.7	4318	24.8	8968	51.5	86.3
0-90	5412	31.1	4979	28.6	10391	59.7	100.0
90-180	0	0	0	0	0	0	
0-180	5412	31.1	4979	28.6	10391	59.7	100.0



AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS			
ANGLE	0°	90°	180°
45	5840	6107	4528
55	4077	5557	3124
65	3016	3844	2415
75	2727	2135	2853
85	3367	797	2268

SPACING CRITERIA 0=1.3 90=1.3 180=1.3

LLF = .79 LLF = LIGHT LOSS FACTOR LFF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.95 MAGNETIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

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8 fixtures arranged as shown below

Work Plane: 3'

Illuminance (Footcandles)

Catalog # 2SLG632-FA178

Lamps: 6-F32T8

Ballast: Magnetic

LLF: 0.75

The maintained footcandle levels shown below
(Average, Minimum, Maximum)
are based on the entire 14' x 10' area shown below.
Average: 208 Minimum: 115 Maximum: 281

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ABSOLUTE X - COORDINATE(S)

	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00
15.00	115	134	151	167	179	188	191	192	191	188	179	167	151	134	115
14.00	133	154	174	192	206	215	219	220	219	215	206	192	174	154	133
13.00	149	173	195	214	229	239	242	243	242	239	229	214	195	173	149
12.00	163	189	213	233	249	259	262	263	262	259	249	233	213	189	163
11.00	171	199	224	246	262	272	276	277	276	272	262	246	224	199	172
10.00	174	203	228	250	267	277	280	281	280	277	267	250	228	203	174
9.00	171	199	224	246	262	272	276	277	276	272	262	246	224	199	172
8.00	163	189	213	233	249	259	262	263	262	259	249	233	213	189	163
7.00	149	173	195	214	229	238	242	243	242	239	229	214	195	173	149
6.00	133	154	174	192	206	215	218	220	218	215	206	192	174	154	133
5.00	115	134	151	166	179	187	191	192	191	187	179	166	151	134	115