

# SHILI22/SHILI24

Surface Mount 2x2/2x4 LED/FLUOR

## FEATURES & SPECIFICATIONS

### INTENDED USE

The SHILI22/SHILI24 provides the look and feel of a fluorescent luminaire - subtle soft direct elements, interest and depth across the ceiling plane - with a contemporary look that blends with today's commercial spaces.

Combined with LED Array and drives, this series offers state-of-the-art lighting performance, energy efficiency and reduced maintenance.

The frosted overlay lens combined with double cell nominal 2" splay louver provides a low-brightness glow, with the effective combination of excellent light transmission and effective lamp obscuration.

### APPLICATIONS

For surface mounted commercial applications such as offices, hospitals, schools, etc.

### FEATURES

- Employs a low profile troffer body
- Reflector distributes light through both optical elements
- Diffuser surround panels manage contrast and generate soft, even, higher angle luminance
- Linear arrayed LED modules provide soft but effective illumination

### SPECIFICATIONS

#### HOUSING

Employs a low profile troffer body with white enamel finish with shroud

#### DIRECT OPTICAL COMPONENT

High reflectance optical engine delivers main beam focus through the optically designed acrylic lens/louwer

#### DIFFUSER SURROUND

Lumieo acrylic overlay manages the balance of efficiency and aesthetics. Double cell 2" splay trim adds character to the optical assembly.

#### REFLECTOR

High reflectance interior reflector

#### LUMINAIRE TYPE

Surface troffer fixture body assembly 2'x2' and 2x4 size

#### LIGHT SOURCE

350ma driver suitable for 120V-277V operation; linear fluorescent options in T5, T5HO, T8 U-lamp lamps



Item Number	Dimensions (LxWxH)	Lamping
SHILI224MV	23.8" x 23.8" x 3.75"	2-F24T5HO
SHILI254MV	23.8" x 47.8" x 3.75"	2-F54T5HO
SHILI22L44W3025L40K	23.8" x 23.8" x 3.75"	192 LEDS, 44W, 3025 Lumens, 4000K
SHILI24L88W6050L40K	23.8" x 47.8" x 3.75"	384 LEDS, 88W, 6050 Lumens, 4000K

Remove "SH" for recessed version.

# SHILI22/SHILI24

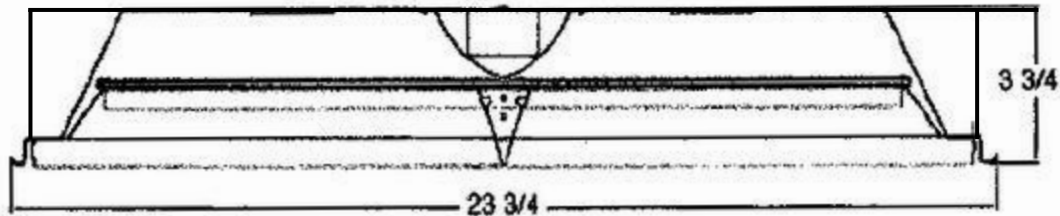
Surface Mount 2x2/2x4 LED/FLUOR



T E X A S

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## END PROFILE



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Catalog Number:

Notes:

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Luminaire Description: Formed white enamel steel housing, formed white enamel steel reflector, formed white enamel aluminum enclosure with frosted plastic lenses

Catalog Number: SHILI22L44W3025L40K

Lamp: 192 white LEDs

Mounting: Surface

Ballast/Driver: One T-Opto TDC-45-387-C01



### Zonal Lumen Summary

Zone (Degrees)	Lumens	% of Lamp	% of Luminaire
0-30	913	N/A	29.1%
0-40	1480	N/A	47.3%
0-60	2540	N/A	81.1%
0-90	3131	N/A	100.0%
90-180	0	N/A	0.0%
0-180	3131	N/A	100.0%

### Test Conditions

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.3693 A
Power:	43.90 W
Power Factor:	0.990
Frequency:	60 Hz

### Summary of Results

Total Lumen Output: 3131 Lumens  
Luminaire Efficacy: 71.3 Lumens/Watt  
CIE Type: Direct

Spacing Criterion: 0 Degree: 1.19 90 Degree: 1.26  
180 Degree: 1.19 270 Degree: 1.26

Data was acquired using the calibrated photodetector method of absolute photometry. A spectral mismatch correction factor was employed based on the spectral responsivity of the photodetector and the spectral power distribution of the test subject.

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## Candela Tabulation

Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187
5	1181	1180	1181	1185	1182	1185	1181	1180	1181	1180	1181	1185	1182	1185	1181	1180
10	1162	1160	1163	1168	1168	1168	1163	1160	1162	1160	1163	1168	1168	1168	1163	1160
15	1121	1123	1140	1142	1144	1142	1140	1123	1121	1123	1140	1142	1144	1142	1140	1123
20	1083	1081	1092	1106	1111	1106	1092	1081	1083	1081	1092	1106	1111	1106	1092	1081
25	1017	1023	1041	1062	1067	1062	1041	1023	1017	1023	1041	1062	1067	1062	1041	1023
30	953	962	980	1003	1009	1003	980	962	953	962	980	1003	1009	1003	980	962
35	874	883	906	930	940	930	906	883	874	883	906	930	940	930	906	883
40	792	803	828	850	861	850	828	803	792	803	828	850	861	850	828	803
45	706	720	741	761	769	761	741	720	706	720	741	761	769	761	741	720
50	621	631	650	662	668	662	650	631	621	631	650	662	668	662	650	631
55	533	539	554	555	553	555	554	539	533	539	554	555	553	555	554	539
60	443	449	456	445	437	445	456	449	443	449	456	445	437	445	456	449
65	356	359	360	342	334	342	360	359	356	359	360	342	334	342	360	359
70	273	274	268	251	245	251	268	274	273	274	268	251	245	251	268	274
75	189	189	182	171	166	171	182	189	189	189	182	171	166	171	182	189
80	112	113	109	102	100	102	109	113	112	113	109	102	100	102	109	113
85	43	47	45	43	42	43	45	47	43	47	45	43	42	43	45	47
90	0	0	1	1	1	1	1	0	0	0	1	1	1	1	1	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Zonal Lumen Tabulation (5 degree zones)

Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens
0-5	28.3	45-50	280.0	90-95	0	135-140	0
5-10	83.9	50-55	259.7	95-100	0	140-145	0
10-15	136.3	55-60	229.8	100-105	0	145-150	0
15-20	183.5	60-65	193.9	105-110	0	150-155	0
20-25	224.2	65-70	155.1	110-115	0	155-160	0
25-30	256.3	70-75	115.2	115-120	0	160-165	0
30-35	277.8	75-80	76.2	120-125	0	165-170	0
35-40	289.5	80-85	40.8	125-130	0	170-175	0
40-45	290.2	85-90	10.4	130-135	0	175-180	0

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## Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	3818	3818	3818	3818	3728	3728	3728	3728	3641	3641	3641	3641
1	3506	3346	3203	3075	3416	3271	3141	3024	3332	3200	3082	2975
2	3202	2925	2699	2510	3115	2863	2655	2480	3033	2804	2613	2450
3	2928	2574	2305	2093	2846	2523	2273	2073	2769	2473	2242	2055
4	2686	2284	1995	1777	2610	2241	1971	1765	2538	2200	1948	1753
5	2473	2043	1749	1534	2403	2007	1730	1525	2338	1972	1712	1517
6	2285	1841	1549	1342	2222	1810	1534	1336	2162	1780	1519	1330
7	2119	1670	1384	1187	2062	1643	1372	1183	2008	1618	1361	1178
8	1972	1524	1248	1060	1920	1501	1238	1057	1872	1480	1229	1054
9	1842	1399	1133	955	1795	1379	1125	953	1751	1361	1117	950
10	1726	1291	1035	867	1684	1274	1029	865	1644	1258	1022	863

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	3479	3479	3479	3479	3331	3331	3331	3195	3195	3195	3131
1	3174	3068	2970	2881	2946	2866	2793	2833	2769	2710	2645
2	2882	2694	2532	2393	2592	2457	2339	2497	2386	2287	2220
3	2627	2381	2182	2018	2295	2125	1983	2215	2072	1949	1882
4	2407	2121	1902	1728	2049	1859	1705	1981	1817	1682	1615
5	2218	1906	1676	1500	1844	1642	1484	1787	1610	1468	1402
6	2053	1724	1491	1318	1672	1464	1306	1622	1439	1295	1231
7	1908	1570	1338	1169	1525	1316	1161	1483	1295	1152	1091
8	1782	1438	1210	1047	1400	1192	1041	1363	1175	1034	975
9	1670	1325	1102	945	1291	1087	940	1260	1073	935	879
10	1570	1227	1009	859	1197	997	855	1170	985	852	797

### Average Luminance Table (cd/m<sup>2</sup>)

		Horizontal Angle (Degrees)		
		0	45	90
Vertical Angle (Degree)	0	3933	3933	3933
	45	3311	3472	3607
	55	3078	3203	3195
	65	2795	2822	2618
	75	2418	2325	2127
	85	1630	1725	1581

This test was conducted using photometry techniques according to standard IES procedures. The user must therefore use caution in the following situations: 1) This test was performed using a specific ballast/lamp combination. Extrapolation of this data for other ballast/lamp combinations may produce erroneous results. 2) This test was conducted in a controlled laboratory environment where the ambient temperature was held at 25°C ±1°C. Field performance may differ particularly in regards to change in luminous output as a result of difference in ambient temperature and method of mounting the luminaire.

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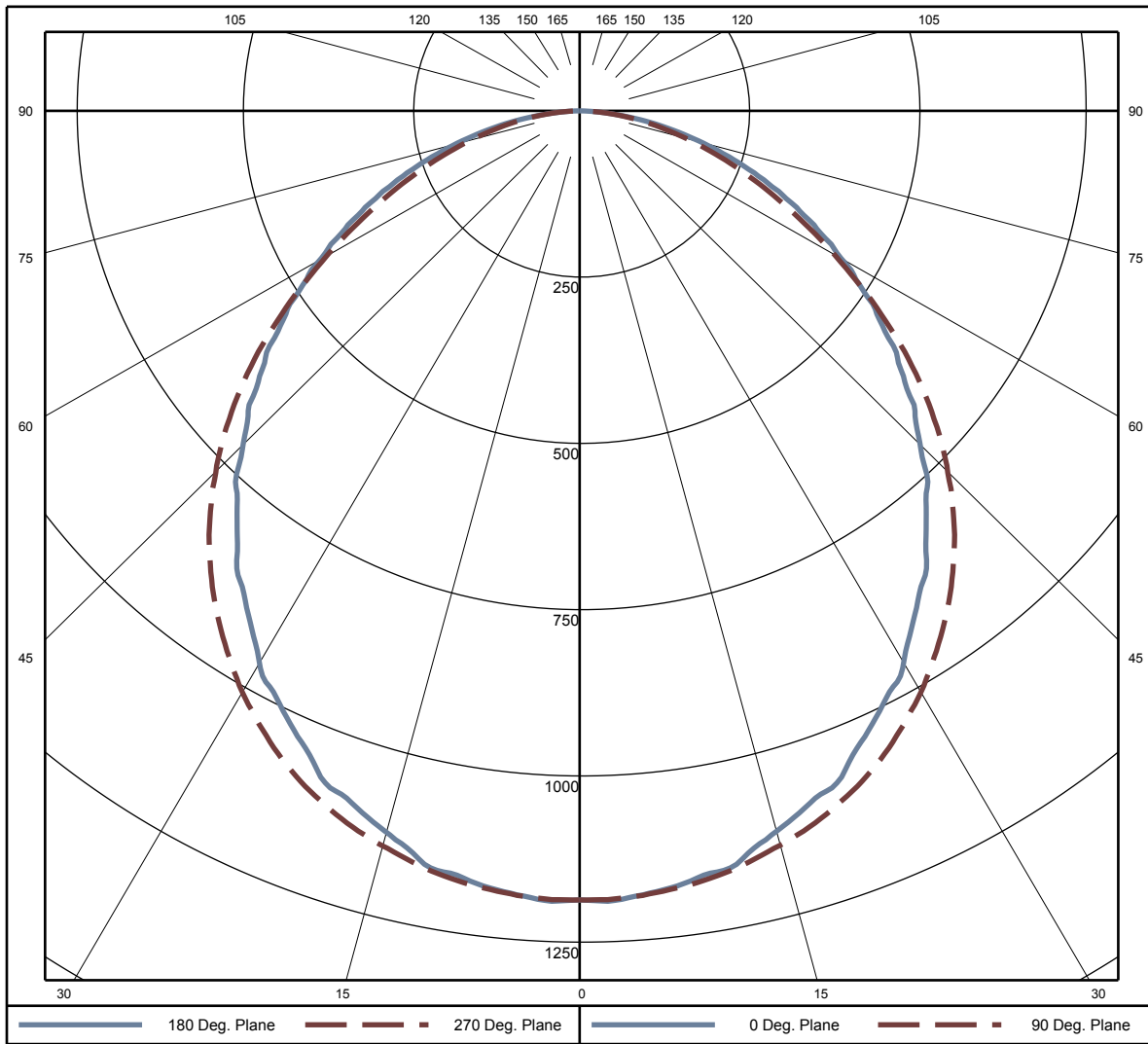
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Polar Plot (Candela)



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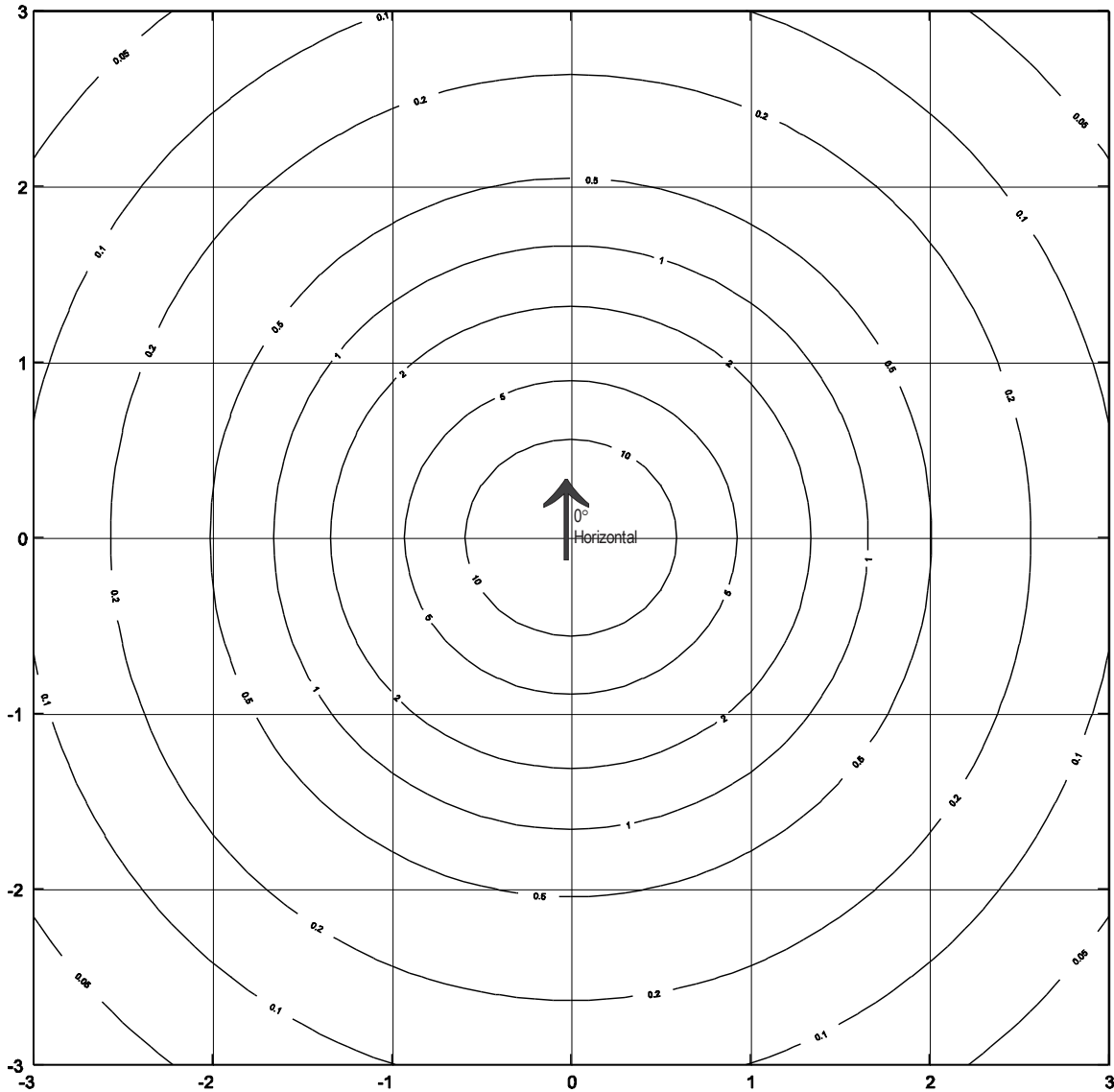
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VALUES BASED ON 8.00 FOOT MOUNTING HEIGHT



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