

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGX6FX-30L35KXX-XX6223FX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] CRT1612221119-008_M-30L-35K
[TESTLAB] Intertek
[ISSUE DATE] 01/19/2017
[UPDATE] 09/15/2017
[LAB-REF LUMCAT] CRT1612221119-008_M-30L-35K
[MANUFAC] Spectrum Lighting
[LUMCAT] SGX6LEDFX-30L-35K-xx-xx6223FX-MW-SO
[LUMINAIRE] Nom. 6" Diam. LED Downlight, Matte White Trim
[OTHER] Regressed Integral Solite Lens
[OTHER] Data for New Construction: SGE6LEDFX-series w/ AR6223FX-MW-SO
[OTHER] And: SGE6PZLEDFX-series w/ NF6223FX-MW-SO
[OTHER] Data for Retrofit: SGRTE6LEDFX-series w/ AR6223FX-MW-SO
[OTHER] 67.6 Degree Beam Angle
[LAMP] N/A
[LAMPCAT] N/A
[OTHER] Total Luminaire Watts is approximate
[OTHER] CCT Output Multipliers: 40K x 1.075, 30K x 1.0, 27K x 0.953
[OTHER] This Report Updated By Spectrum Lighting, scaled from 10L-27K
[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18399	18521	17888
55	10231	10261	9961
65	7533	7615	7411
75	5652	5718	5519
85	1382	1777	1185

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603
2.5	1766.803	1765.546	1764.603	1766.174	1766.803	1766.174	1764.603	1765.546	1766.803	1765.546
5.0	1766.489	1764.603	1766.174	1766.174	1764.918	1766.174	1766.174	1764.603	1766.489	1764.603
7.5	1758.948	1755.806	1759.262	1758.005	1757.062	1758.005	1759.262	1755.806	1758.948	1755.806
10.0	1739.781	1740.409	1741.038	1740.095	1738.210	1740.095	1741.038	1740.409	1739.781	1740.409
12.5	1708.988	1709.617	1710.874	1707.417	1705.846	1707.417	1710.874	1709.617	1708.988	1709.617
15.0	1665.941	1665.313	1663.428	1660.600	1657.144	1660.600	1663.428	1665.313	1665.941	1665.313
17.5	1606.556	1607.498	1603.099	1599.329	1595.873	1599.329	1603.099	1607.498	1606.556	1607.498
20.0	1535.544	1537.430	1533.031	1526.118	1524.233	1526.118	1533.031	1537.430	1535.544	1537.430
22.5	1456.363	1459.820	1453.850	1448.822	1446.309	1448.822	1453.850	1459.820	1456.363	1459.820
25.0	1366.814	1369.641	1367.442	1358.330	1357.701	1358.330	1367.442	1369.641	1366.814	1369.641
27.5	1265.638	1267.209	1262.810	1253.070	1254.641	1253.070	1262.810	1267.209	1265.638	1267.209
30.0	1149.066	1144.353	1144.353	1119.530	1128.014	1119.530	1144.353	1144.353	1149.066	1144.353
32.5	980.021	982.535	980.964	950.799	957.712	950.799	980.964	982.535	980.021	982.535
35.0	794.951	801.550	799.036	768.243	778.298	768.243	799.036	801.550	794.951	801.550
37.5	610.196	618.365	620.565	585.373	592.286	585.373	620.565	618.365	610.196	618.365
40.0	449.320	454.033	454.033	421.670	432.667	421.670	454.033	454.033	449.320	454.033
42.5	319.866	324.265	323.636	301.956	309.811	301.956	323.636	324.265	319.866	324.265
45.0	237.543	240.371	239.114	225.603	230.944	225.603	239.114	240.371	237.543	240.371
47.5	185.070	186.327	185.698	177.529	180.671	177.529	185.698	186.327	185.070	186.327
50.0	150.507	151.449	151.135	146.108	147.050	146.108	151.135	151.449	150.507	151.449
52.5	126.941	127.883	127.569	123.485	123.799	123.485	127.569	127.883	126.941	127.883
55.0	107.146	107.774	107.460	104.004	104.318	104.004	107.460	107.774	107.146	107.774
57.5	90.178	90.807	90.807	88.607	88.293	88.607	90.807	90.807	90.178	90.807
60.0	77.296	77.610	77.610	76.667	76.353	76.667	77.610	77.610	77.296	77.610
62.5	67.241	67.869	67.869	66.613	66.298	66.613	67.869	67.869	67.241	67.869
65.0	58.129	58.443	58.757	57.186	57.186	57.186	58.757	58.443	58.129	58.443
67.5	49.331	49.959	49.959	48.703	48.388	48.703	49.959	49.959	49.331	49.959
70.0	41.476	41.790	42.104	40.847	40.533	40.847	42.104	41.790	41.476	41.790
72.5	33.935	34.249	34.249	33.620	32.992	33.620	34.249	34.249	33.935	34.249
75.0	26.708	26.708	27.022	26.394	26.079	26.394	27.022	26.708	26.708	26.708
77.5	20.109	20.109	20.424	19.795	19.481	19.795	20.424	20.109	20.109	20.109
80.0	13.511	13.825	13.825	13.511	13.197	13.511	13.825	13.825	13.511	13.825
82.5	7.541	7.541	8.169	7.541	7.227	7.541	8.169	7.541	7.541	7.541
85.0	2.199	2.199	2.828	2.199	1.885	2.199	2.828	2.199	2.199	2.199
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603	1764.603
2.5	1764.603	1766.174	1766.803	1766.174	1764.603	1765.546	1766.803
5.0	1766.174	1766.174	1764.918	1766.174	1766.174	1764.603	1766.489
7.5	1759.262	1758.005	1757.062	1758.005	1759.262	1755.806	1758.948
10.0	1741.038	1740.095	1738.210	1740.095	1741.038	1740.409	1739.781
12.5	1710.874	1707.417	1705.846	1707.417	1710.874	1709.617	1708.988
15.0	1663.428	1660.600	1657.144	1660.600	1663.428	1665.313	1665.941
17.5	1603.099	1599.329	1595.873	1599.329	1603.099	1607.498	1606.556
20.0	1533.031	1526.118	1524.233	1526.118	1533.031	1537.430	1535.544
22.5	1453.850	1448.822	1446.309	1448.822	1453.850	1459.820	1456.363
25.0	1367.442	1358.330	1357.701	1358.330	1367.442	1369.641	1366.814
27.5	1262.810	1253.070	1254.641	1253.070	1262.810	1267.209	1265.638
30.0	1144.353	1119.530	1128.014	1119.530	1144.353	1144.353	1149.066

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CANDELA TABULATION - (Cont.)

32.5	980.964	950.799	957.712	950.799	980.964	982.535	980.021
35.0	799.036	768.243	778.298	768.243	799.036	801.550	794.951
37.5	620.565	585.373	592.286	585.373	620.565	618.365	610.196
40.0	454.033	421.670	432.667	421.670	454.033	454.033	449.320
42.5	323.636	301.956	309.811	301.956	323.636	324.265	319.866
45.0	239.114	225.603	230.944	225.603	239.114	240.371	237.543
47.5	185.698	177.529	180.671	177.529	185.698	186.327	185.070
50.0	151.135	146.108	147.050	146.108	151.135	151.449	150.507
52.5	127.569	123.485	123.799	123.485	127.569	127.883	126.941
55.0	107.460	104.004	104.318	104.004	107.460	107.774	107.146
57.5	90.807	88.607	88.293	88.607	90.807	90.807	90.178
60.0	77.610	76.667	76.353	76.667	77.610	77.610	77.296
62.5	67.869	66.613	66.298	66.613	67.869	67.869	67.241
65.0	58.757	57.186	57.186	57.186	58.757	58.443	58.129
67.5	49.959	48.703	48.388	48.703	49.959	49.959	49.331
70.0	42.104	40.847	40.533	40.847	42.104	41.790	41.476
72.5	34.249	33.620	32.992	33.620	34.249	34.249	33.935
75.0	27.022	26.394	26.079	26.394	27.022	26.708	26.708
77.5	20.424	19.795	19.481	19.795	20.424	20.109	20.109
80.0	13.825	13.511	13.197	13.511	13.825	13.825	13.511
82.5	8.169	7.541	7.227	7.541	8.169	7.541	7.541
85.0	2.828	2.199	1.885	2.199	2.828	2.199	2.199
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	633.14	N.A.	29.80
0-30	1254.2	N.A.	59.00
0-40	1741.14	N.A.	81.90
0-60	2034.64	N.A.	95.70
0-80	2120.95	N.A.	99.80
0-90	2125.52	N.A.	100.00
10-90	1957.79	N.A.	92.10
20-40	1108.00	N.A.	52.10
20-50	1304.45	N.A.	61.40
40-70	351.33	N.A.	16.50
60-80	86.31	N.A.	4.10
70-80	28.48	N.A.	1.30
80-90	4.56	N.A.	0.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2125.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.73
10-20	465.42
20-30	621.06
30-40	486.94
40-50	196.45
50-60	97.05
60-70	57.83
70-80	28.48
80-90	4.56
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

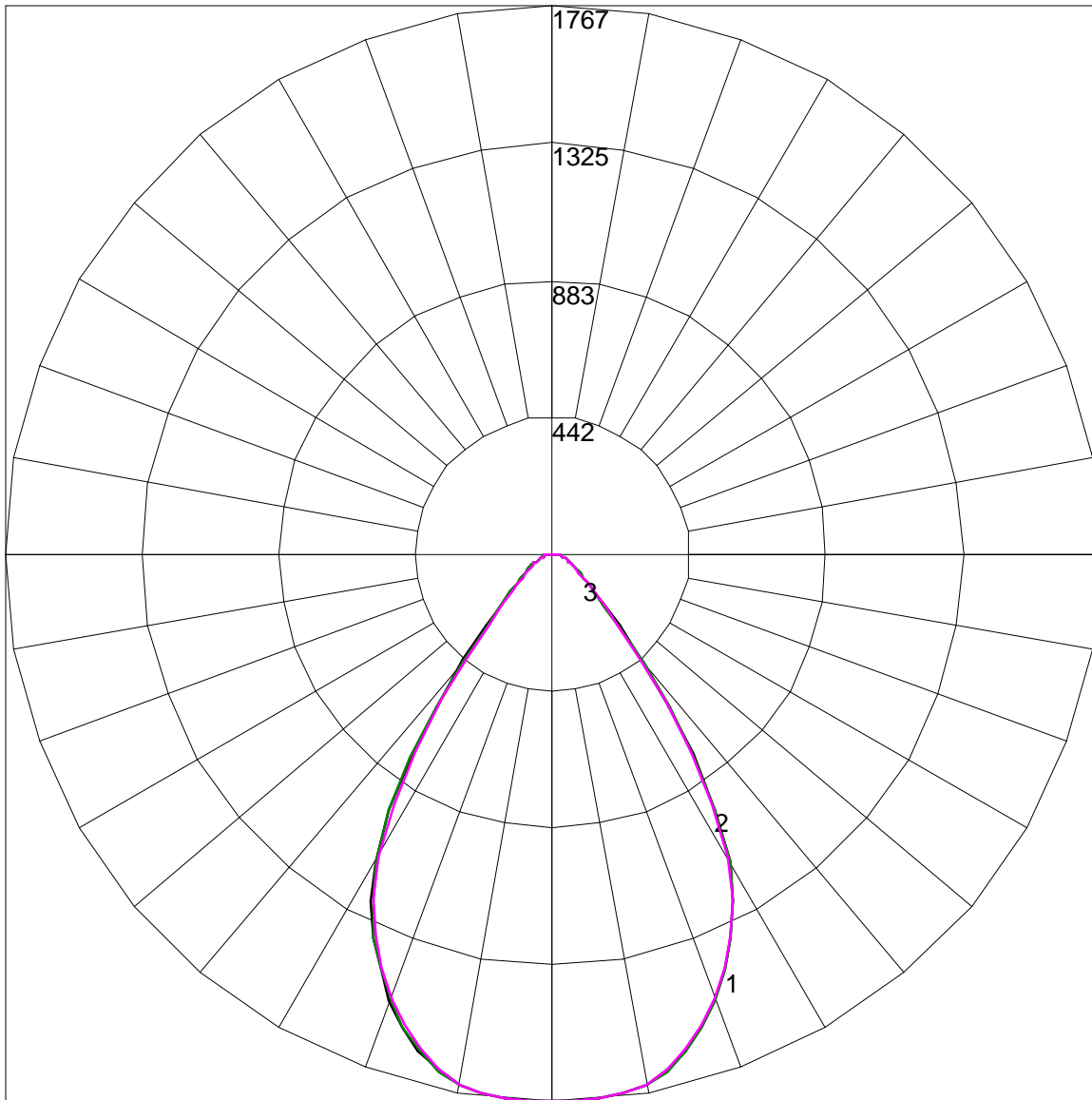
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	87	78	72	67	76	71	66	74	69	66	73	68	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	45	55	49	45	54	49	45	53	48	45	44

POLAR GRAPH



Maximum Candela = 1766.803 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)