

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGX6FX-20L35KXX-XX6223FX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] CRT1612221119-008_M-20L-35K
[TESTLAB] Intertek
[ISSUE DATE] 01/19/2017
[UPDATE] 09/15/2017
[LAB-REF LUMCAT] CRT1612221119-008_M-20L-35K
[MANUFAC] Spectrum Lighting
[LUMCAT] SGX6LEDFX-20L-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	1441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	17
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	12474	12556	12127
55	6936	6956	6753
65	5107	5162	5024
75	3832	3877	3741
85	937	1205	803

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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	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320
2.5	1197.811	1196.959	1196.320	1197.385	1197.811	1197.385	1196.320	1196.959	1197.811	1196.959
5.0	1197.598	1196.320	1197.385	1197.385	1196.533	1197.385	1197.385	1196.320	1197.598	1196.320
7.5	1192.486	1190.356	1192.699	1191.847	1191.208	1191.847	1192.699	1190.356	1192.486	1190.356
10.0	1179.492	1179.918	1180.344	1179.705	1178.427	1179.705	1180.344	1179.918	1179.492	1179.918
12.5	1158.616	1159.042	1159.894	1157.551	1156.486	1157.551	1159.894	1159.042	1158.616	1159.042
15.0	1129.432	1129.006	1127.728	1125.811	1123.467	1125.811	1127.728	1129.006	1129.432	1129.006
17.5	1089.171	1089.810	1086.828	1084.272	1081.929	1084.272	1086.828	1089.810	1089.171	1089.810
20.0	1041.029	1042.307	1039.325	1034.638	1033.360	1034.638	1039.325	1042.307	1041.029	1042.307
22.5	987.348	989.691	985.643	982.235	980.531	982.235	985.643	989.691	987.348	989.691
25.0	926.637	928.554	927.063	920.885	920.459	920.885	927.063	928.554	926.637	928.554
27.5	858.045	859.110	856.127	849.524	850.589	849.524	856.127	859.110	858.045	859.110
30.0	779.014	775.819	775.819	758.990	764.742	758.990	775.819	775.819	779.014	775.819
32.5	664.409	666.114	665.048	644.598	649.285	644.598	665.048	666.114	664.409	666.114
35.0	538.941	543.414	541.710	520.834	527.651	520.834	541.710	543.414	538.941	543.414
37.5	413.685	419.223	420.714	396.856	401.543	396.856	420.714	419.223	413.685	419.223
40.0	304.619	307.814	307.814	285.873	293.329	285.873	307.814	307.814	304.619	307.814
42.5	216.854	219.837	219.411	204.712	210.038	204.712	219.411	219.837	216.854	219.837
45.0	161.043	162.960	162.108	152.948	156.570	152.948	162.108	162.960	161.043	162.960
47.5	125.469	126.321	125.895	120.356	122.486	120.356	125.895	126.321	125.469	126.321
50.0	102.037	102.676	102.463	99.054	99.693	99.054	102.463	102.676	102.037	102.676
52.5	86.060	86.699	86.486	83.717	83.930	83.717	86.486	86.699	86.060	86.699
55.0	72.640	73.066	72.853	70.510	70.723	70.510	72.853	73.066	72.640	73.066
57.5	61.137	61.563	61.563	60.072	59.859	60.072	61.563	61.563	61.137	61.563
60.0	52.403	52.616	52.616	51.977	51.764	51.977	52.616	52.616	52.403	52.616
62.5	45.586	46.012	46.012	45.160	44.947	45.160	46.012	46.012	45.586	46.012
65.0	39.409	39.622	39.835	38.770	38.770	38.770	39.835	39.622	39.409	39.622
67.5	33.444	33.870	33.870	33.018	32.805	33.018	33.870	33.870	33.444	33.870
70.0	28.119	28.332	28.545	27.693	27.480	27.693	28.545	28.332	28.119	28.332
72.5	23.006	23.219	23.219	22.793	22.367	22.793	23.219	23.219	23.006	23.219
75.0	18.107	18.107	18.320	17.894	17.681	17.894	18.320	18.107	18.107	18.107
77.5	13.633	13.633	13.846	13.420	13.207	13.420	13.846	13.633	13.633	13.633
80.0	9.160	9.373	9.373	9.160	8.947	9.160	9.373	9.373	9.160	9.373
82.5	5.112	5.112	5.539	5.112	4.899	5.112	5.539	5.112	5.112	5.112
85.0	1.491	1.491	1.917	1.491	1.278	1.491	1.917	1.491	1.491	1.491
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	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320	1196.320
2.5	1196.320	1197.385	1197.811	1197.385	1196.320	1196.959	1197.811
5.0	1197.385	1197.385	1196.533	1197.385	1197.385	1196.320	1197.598
7.5	1192.699	1191.847	1191.208	1191.847	1192.699	1190.356	1192.486
10.0	1180.344	1179.705	1178.427	1179.705	1180.344	1179.918	1179.492
12.5	1159.894	1157.551	1156.486	1157.551	1159.894	1159.042	1158.616
15.0	1127.728	1125.811	1123.467	1125.811	1127.728	1129.006	1129.432
17.5	1086.828	1084.272	1081.929	1084.272	1086.828	1089.810	1089.171
20.0	1039.325	1034.638	1033.360	1034.638	1039.325	1042.307	1041.029
22.5	985.643	982.235	980.531	982.235	985.643	989.691	987.348
25.0	927.063	920.885	920.459	920.885	927.063	928.554	926.637
27.5	856.127	849.524	850.589	849.524	856.127	859.110	858.045
30.0	775.819	758.990	764.742	758.990	775.819	775.819	779.014

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CANDELA TABULATION - (Cont.)

32.5	665.048	644.598	649.285	644.598	665.048	666.114	664.409
35.0	541.710	520.834	527.651	520.834	541.710	543.414	538.941
37.5	420.714	396.856	401.543	396.856	420.714	419.223	413.685
40.0	307.814	285.873	293.329	285.873	307.814	307.814	304.619
42.5	219.411	204.712	210.038	204.712	219.411	219.837	216.854
45.0	162.108	152.948	156.570	152.948	162.108	162.960	161.043
47.5	125.895	120.356	122.486	120.356	125.895	126.321	125.469
50.0	102.463	99.054	99.693	99.054	102.463	102.676	102.037
52.5	86.486	83.717	83.930	83.717	86.486	86.699	86.060
55.0	72.853	70.510	70.723	70.510	72.853	73.066	72.640
57.5	61.563	60.072	59.859	60.072	61.563	61.563	61.137
60.0	52.616	51.977	51.764	51.977	52.616	52.616	52.403
62.5	46.012	45.160	44.947	45.160	46.012	46.012	45.586
65.0	39.835	38.770	38.770	38.770	39.835	39.622	39.409
67.5	33.870	33.018	32.805	33.018	33.870	33.870	33.444
70.0	28.545	27.693	27.480	27.693	28.545	28.332	28.119
72.5	23.219	22.793	22.367	22.793	23.219	23.219	23.006
75.0	18.320	17.894	17.681	17.894	18.320	18.107	18.107
77.5	13.846	13.420	13.207	13.420	13.846	13.633	13.633
80.0	9.373	9.160	8.947	9.160	9.373	9.373	9.160
82.5	5.539	5.112	4.899	5.112	5.539	5.112	5.112
85.0	1.917	1.491	1.278	1.491	1.917	1.491	1.491
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	429.24	N.A.	29.80
0-30	850.29	N.A.	59.00
0-40	1180.42	N.A.	81.90
0-60	1379.39	N.A.	95.70
0-80	1437.91	N.A.	99.80
0-90	1441.00	N.A.	100.00
10-90	1327.29	N.A.	92.10
20-40	751.17	N.A.	52.10
20-50	884.36	N.A.	61.40
40-70	238.19	N.A.	16.50
60-80	58.52	N.A.	4.10
70-80	19.31	N.A.	1.30
80-90	3.09	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	1441.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.71
10-20	315.53
20-30	421.05
30-40	330.12
40-50	133.18
50-60	65.79
60-70	39.21
70-80	19.31
80-90	3.09
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

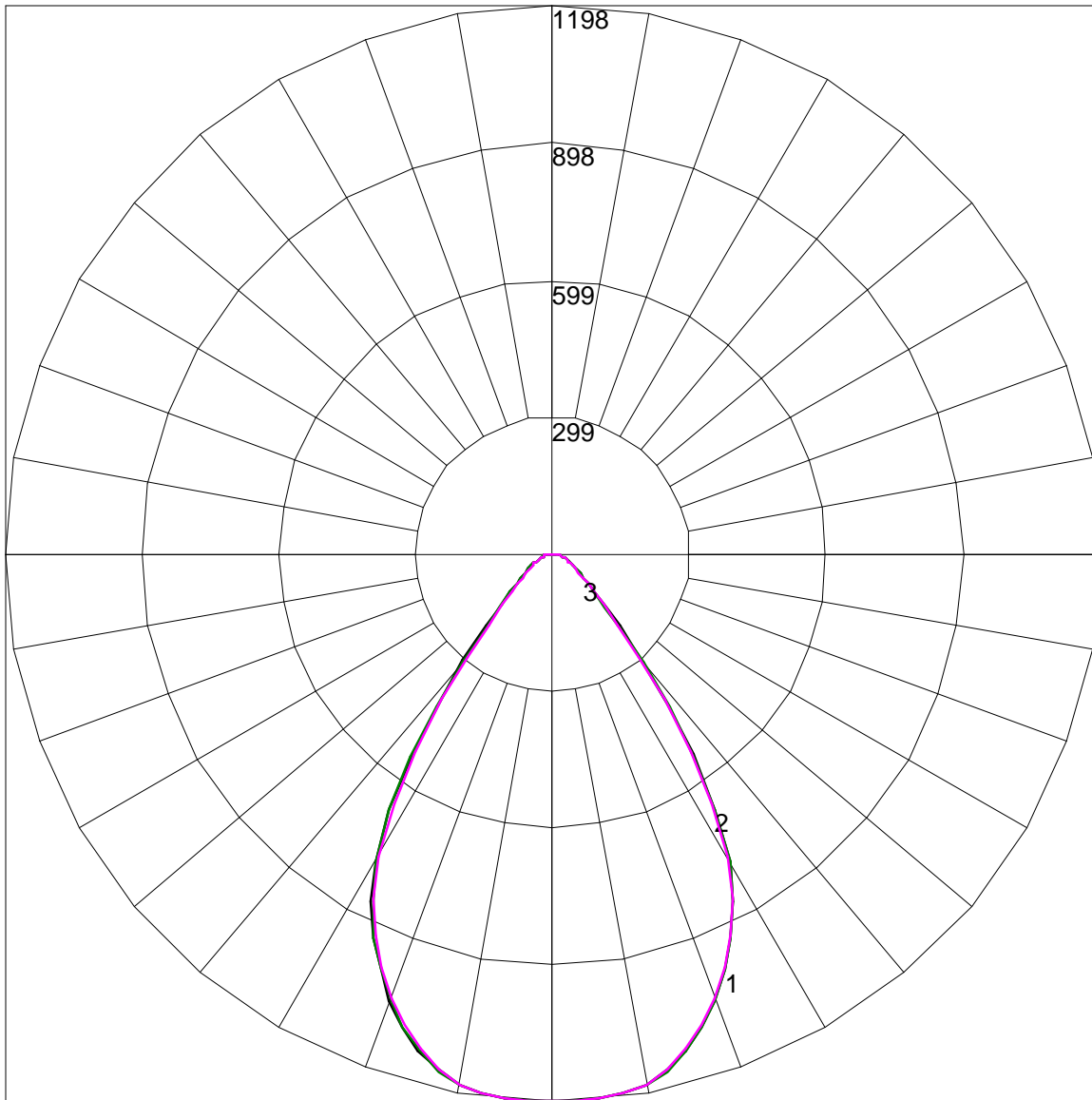
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	87	82	97	91	86	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	67	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 = 1197.811 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)