

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGX6FX-10L35KXX-XX6223FX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] CRT1612221119-008-35K
[TESTLAB] Intertek
[ISSUE DATE] 01/19/2017
[UPDATE] 09/15/2017
[LAB-REF LUMCAT] CRT1612221119-008-35K
[MANUFAC] Spectrum Lighting
[LUMCAT] SGX6LEDFX-10L-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 27K
[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	709
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	9.2
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	6141	6182	5971
55	3415	3425	3325
65	2515	2542	2474
75	1887	1909	1842
85	461	593	395

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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	589.006	589.006	589.006	589.006	589.006	589.006	589.006	589.006	589.006	589.006
2.5	589.740	589.321	589.006	589.530	589.740	589.530	589.006	589.321	589.740	589.321
5.0	589.635	589.006	589.530	589.530	589.111	589.530	589.530	589.006	589.635	589.006
7.5	587.118	586.069	587.223	586.804	586.489	586.804	587.223	586.069	587.118	586.069
10.0	580.721	580.930	581.140	580.825	580.196	580.825	581.140	580.930	580.721	580.930
12.5	570.442	570.652	571.072	569.918	569.394	569.918	571.072	570.652	570.442	570.652
15.0	556.074	555.864	555.235	554.291	553.137	554.291	555.235	555.864	556.074	555.864
17.5	536.251	536.566	535.098	533.839	532.686	533.839	535.098	536.566	536.251	536.566
20.0	512.549	513.178	511.710	509.402	508.773	509.402	511.710	513.178	512.549	513.178
22.5	486.119	487.272	485.280	483.602	482.763	483.602	485.280	487.272	486.119	487.272
25.0	456.228	457.172	456.438	453.396	453.186	453.396	456.438	457.172	456.228	457.172
27.5	422.457	422.981	421.513	418.261	418.786	418.261	421.513	422.981	422.457	422.981
30.0	383.546	381.973	381.973	373.687	376.519	373.687	381.973	381.973	383.546	381.973
32.5	327.121	327.960	327.435	317.367	319.674	317.367	327.435	327.960	327.121	327.960
35.0	265.346	267.549	266.710	256.432	259.788	256.432	266.710	267.549	265.346	267.549
37.5	203.677	206.404	207.138	195.391	197.699	195.391	207.138	206.404	203.677	206.404
40.0	149.978	151.552	151.552	140.749	144.420	140.749	151.552	151.552	149.978	151.552
42.5	106.768	108.236	108.026	100.790	103.412	100.790	108.026	108.236	106.768	108.236
45.0	79.289	80.233	79.814	75.304	77.087	75.304	79.814	80.233	79.289	80.233
47.5	61.774	62.194	61.984	59.257	60.306	59.257	61.984	62.194	61.774	62.194
50.0	50.238	50.552	50.447	48.769	49.084	48.769	50.447	50.552	50.238	50.552
52.5	42.372	42.686	42.581	41.218	41.323	41.218	42.581	42.686	42.372	42.686
55.0	35.764	35.974	35.869	34.715	34.820	34.715	35.869	35.974	35.764	35.974
57.5	30.101	30.310	30.310	29.576	29.471	29.576	30.310	30.310	30.101	30.310
60.0	25.800	25.905	25.905	25.591	25.486	25.591	25.905	25.905	25.800	25.905
62.5	22.444	22.654	22.654	22.235	22.130	22.235	22.654	22.654	22.444	22.654
65.0	19.403	19.508	19.613	19.088	19.088	19.088	19.613	19.508	19.403	19.508
67.5	16.466	16.676	16.676	16.256	16.152	16.256	16.676	16.676	16.466	16.676
70.0	13.844	13.949	14.054	13.634	13.530	13.634	14.054	13.949	13.844	13.949
72.5	11.327	11.432	11.432	11.222	11.012	11.222	11.432	11.432	11.327	11.432
75.0	8.915	8.915	9.020	8.810	8.705	8.810	9.020	8.915	8.915	8.915
77.5	6.712	6.712	6.817	6.607	6.503	6.607	6.817	6.712	6.712	6.712
80.0	4.510	4.615	4.615	4.510	4.405	4.510	4.615	4.615	4.510	4.615
82.5	2.517	2.517	2.727	2.517	2.412	2.517	2.727	2.517	2.517	2.517
85.0	0.734	0.734	0.944	0.734	0.629	0.734	0.944	0.734	0.734	0.734
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	589.006	589.006	589.006	589.006	589.006	589.006	589.006
2.5	589.006	589.530	589.740	589.530	589.006	589.321	589.740
5.0	589.530	589.530	589.111	589.530	589.530	589.006	589.635
7.5	587.223	586.804	586.489	586.804	587.223	586.069	587.118
10.0	581.140	580.825	580.196	580.825	581.140	580.930	580.721
12.5	571.072	569.918	569.394	569.918	571.072	570.652	570.442
15.0	555.235	554.291	553.137	554.291	555.235	555.864	556.074
17.5	535.098	533.839	532.686	533.839	535.098	536.566	536.251
20.0	511.710	509.402	508.773	509.402	511.710	513.178	512.549
22.5	485.280	483.602	482.763	483.602	485.280	487.272	486.119
25.0	456.438	453.396	453.186	453.396	456.438	457.172	456.228
27.5	421.513	418.261	418.786	418.261	421.513	422.981	422.457
30.0	381.973	373.687	376.519	373.687	381.973	381.973	383.546

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CANDELA TABULATION - (Cont.)

32.5	327.435	317.367	319.674	317.367	327.435	327.960	327.121
35.0	266.710	256.432	259.788	256.432	266.710	267.549	265.346
37.5	207.138	195.391	197.699	195.391	207.138	206.404	203.677
40.0	151.552	140.749	144.420	140.749	151.552	151.552	149.978
42.5	108.026	100.790	103.412	100.790	108.026	108.236	106.768
45.0	79.814	75.304	77.087	75.304	79.814	80.233	79.289
47.5	61.984	59.257	60.306	59.257	61.984	62.194	61.774
50.0	50.447	48.769	49.084	48.769	50.447	50.552	50.238
52.5	42.581	41.218	41.323	41.218	42.581	42.686	42.372
55.0	35.869	34.715	34.820	34.715	35.869	35.974	35.764
57.5	30.310	29.576	29.471	29.576	30.310	30.310	30.101
60.0	25.905	25.591	25.486	25.591	25.905	25.905	25.800
62.5	22.654	22.235	22.130	22.235	22.654	22.654	22.444
65.0	19.613	19.088	19.088	19.088	19.613	19.508	19.403
67.5	16.676	16.256	16.152	16.256	16.676	16.676	16.466
70.0	14.054	13.634	13.530	13.634	14.054	13.949	13.844
72.5	11.432	11.222	11.012	11.222	11.432	11.432	11.327
75.0	9.020	8.810	8.705	8.810	9.020	8.915	8.915
77.5	6.817	6.607	6.503	6.607	6.817	6.712	6.712
80.0	4.615	4.510	4.405	4.510	4.615	4.615	4.510
82.5	2.727	2.517	2.412	2.517	2.727	2.517	2.517
85.0	0.944	0.734	0.629	0.734	0.944	0.734	0.734
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	211.34	N.A.	29.80
0-30	418.64	N.A.	59.00
0-40	581.18	N.A.	81.90
0-60	679.14	N.A.	95.70
0-80	707.95	N.A.	99.80
0-90	709.47	N.A.	100.00
10-90	653.49	N.A.	92.10
20-40	369.84	N.A.	52.10
20-50	435.41	N.A.	61.40
40-70	117.27	N.A.	16.50
60-80	28.81	N.A.	4.10
70-80	9.51	N.A.	1.30
80-90	1.52	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	709.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.99
10-20	155.35
20-30	207.30
30-40	162.54
40-50	65.57
50-60	32.39
60-70	19.30
70-80	9.51
80-90	1.52
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

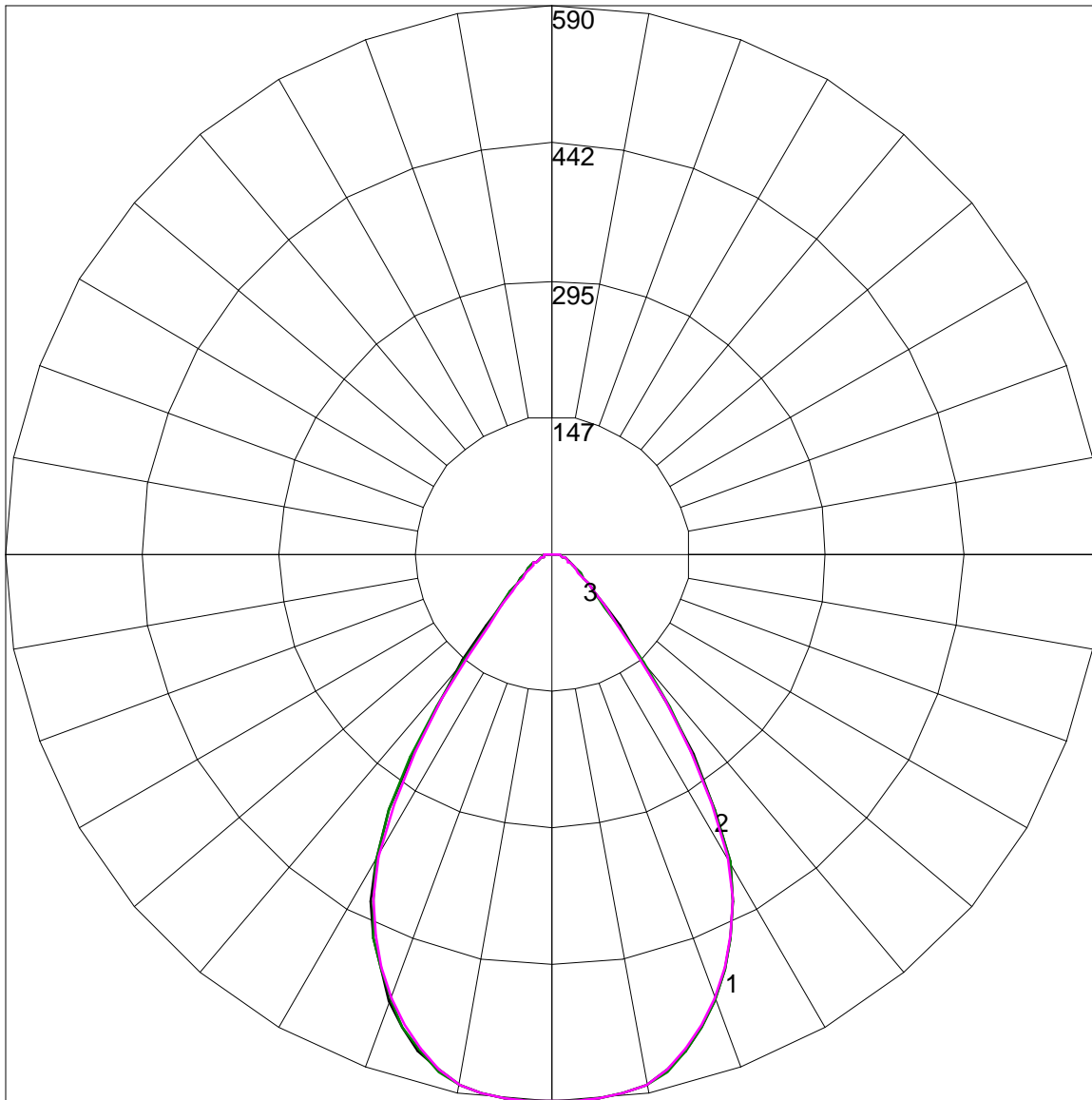
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	92	87	82	98	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	70	66	73	69	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	61	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 = 589.74 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)