

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-13LXXK-FT-EX-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 3.2.11 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUE DATE]

[TEST] SP-00408\_10\_R3\_M-13L

[TEST DATE] Sep 05 2014

[UPDATE] Nov 29 2016

[MANUFAC] Spectrum Lighting

[LUMCAT] SPC0612SQFTLEDXL-13L-xxK-FT-EX-GL

[LUMINAIRE] 6" Square Cylinder, Angled Bottom Plane

[OTHER] Forward Throw Distribution, Clear Glass Lens

[OTHER] Data applicable to Pendant, Surface, and Wall mounted variants

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] Xicato LED lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	21.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.12
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.64
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
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	59663	32342	13765
55	79021	40368	15078
65	67259	50311	11558
75	67263	54835	3508
85	122931	73494	3443

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**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0.0</b>	306.216	306.216	306.216	306.216	306.216	306.216	306.216	306.216	306.216	306.216
<b>2.5</b>	368.470	370.868	373.265	367.671	359.407	346.892	330.125	316.034	309.951	303.874
<b>5.0</b>	430.719	435.520	440.320	429.126	412.598	387.568	354.035	325.846	313.686	301.526
<b>7.5</b>	466.916	466.083	465.251	451.726	433.971	406.959	370.690	337.440	313.248	289.055
<b>10.0</b>	503.113	496.647	490.182	474.331	455.344	426.351	387.340	349.028	312.804	276.579
<b>12.5</b>	531.285	517.116	502.947	486.380	469.019	442.662	407.315	367.410	313.836	260.262
<b>15.0</b>	559.451	537.579	515.706	498.434	482.689	458.974	427.289	385.792	314.868	243.945
<b>17.5</b>	547.252	527.028	506.804	492.718	480.686	462.437	437.967	403.463	338.833	274.203
<b>20.0</b>	535.048	516.472	497.896	487.007	478.682	465.895	448.651	421.128	362.798	304.462
<b>22.5</b>	536.779	517.782	498.784	487.262	478.238	462.704	440.670	413.303	369.952	326.606
<b>25.0</b>	538.505	519.086	499.672	487.518	477.788	459.512	432.684	405.472	377.111	348.745
<b>27.5</b>	570.801	546.042	521.278	499.600	478.948	453.646	423.693	394.094	365.545	336.996
<b>30.0</b>	603.096	572.993	542.890	511.682	480.103	447.774	414.702	382.717	353.979	325.241
<b>32.5</b>	665.728	616.561	567.393	529.076	494.372	454.922	410.717	370.368	341.591	312.809
<b>35.0</b>	728.360	660.128	591.896	546.470	508.646	462.065	406.732	358.025	329.198	300.377
<b>37.5</b>	774.059	686.357	598.656	555.505	527.200	477.167	405.394	343.972	313.592	283.211
<b>40.0</b>	819.757	712.587	605.416	564.535	545.759	492.268	404.062	329.920	297.980	266.039
<b>42.5</b>	900.266	756.654	613.042	566.999	553.474	497.191	398.157	315.240	280.697	246.154
<b>45.0</b>	980.768	800.721	620.673	569.458	561.183	502.114	392.252	300.566	263.414	226.268
<b>47.5</b>	1053.007	852.652	652.303	588.716	570.723	501.959	382.423	284.210	249.944	215.679
<b>50.0</b>	1125.246	904.589	683.932	607.975	580.258	501.798	372.599	267.849	236.469	205.084
<b>52.5</b>	1089.471	886.263	683.055	610.450	581.379	497.929	360.090	250.755	226.912	203.069
<b>55.0</b>	1053.690	867.931	682.173	612.920	582.500	494.055	347.585	233.655	217.349	201.049
<b>57.5</b>	960.466	814.246	668.020	607.903	576.490	486.657	338.417	223.005	206.083	189.155
<b>60.0</b>	867.249	760.555	653.868	602.885	570.473	479.259	329.248	212.354	194.811	177.267
<b>62.5</b>	764.030	692.784	621.545	581.979	552.969	466.194	321.650	205.711	175.563	145.416
<b>65.0</b>	660.805	625.013	589.216	561.066	535.464	453.124	314.058	199.067	156.316	113.559
<b>67.5</b>	572.066	556.709	541.358	519.935	496.497	420.873	293.073	183.827	130.242	76.657
<b>70.0</b>	483.327	488.411	493.495	478.810	457.531	388.622	272.089	168.581	104.168	39.749
<b>72.5</b>	444.022	447.835	451.653	434.493	410.345	342.674	231.479	135.009	82.717	30.431
<b>75.0</b>	404.717	407.265	409.806	390.182	363.159	296.720	190.865	101.432	61.266	21.107
<b>77.5</b>	378.005	371.084	364.163	342.862	316.766	257.675	165.601	87.690	52.275	16.866
<b>80.0</b>	351.287	334.904	318.515	295.538	270.368	218.631	140.337	73.948	43.284	12.626
<b>82.5</b>	300.183	287.451	274.719	249.828	220.890	172.522	104.717	48.968	29.387	9.801
<b>85.0</b>	249.078	239.999	230.919	204.118	171.412	126.407	69.098	23.993	15.485	6.976
<b>87.5</b>	215.884	199.023	182.162	147.475	106.843	71.995	42.924	19.347	12.249	5.150
<b>90.0</b>	182.689	158.047	133.405	90.831	42.274	17.582	16.750	14.702	9.013	3.324

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
<b>0.0</b>	306.216	306.216	306.216	306.216	306.216	306.216	306.216	306.216	306.216
<b>2.5</b>	290.509	277.145	267.871	259.962	253.702	249.095	245.760	246.231	246.709
<b>5.0</b>	274.797	248.074	229.526	213.703	201.188	191.980	185.309	186.252	187.196
<b>7.5</b>	256.943	224.836	201.765	181.707	165.251	152.397	142.940	143.667	144.400
<b>10.0</b>	239.088	201.604	174.004	149.706	129.309	112.815	100.572	101.088	101.604
<b>12.5</b>	217.882	175.502	145.199	118.920	99.068	85.631	75.086	73.216	71.351
<b>15.0</b>	196.675	149.406	116.395	88.140	68.820	58.442	49.595	45.344	41.092
<b>17.5</b>	207.614	141.031	101.077	69.997	49.423	39.344	31.019	27.950	24.881
<b>20.0</b>	218.559	132.656	85.753	51.859	30.020	20.241	12.438	10.551	8.664
<b>22.5</b>	231.901	137.196	84.382	45.521	21.795	13.203	6.505	5.483	4.462
<b>25.0</b>	245.243	141.741	83.006	39.189	13.570	6.161	0.566	0.411	0.255
<b>27.5</b>	243.273	149.550	87.956	37.068	9.113	4.085	0.289	0.211	0.128
<b>30.0</b>	241.297	157.354	92.901	34.948	4.651	2.004	0.017	0.006	0.000

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**CANDELA TABULATION - (Cont.)**

32.5	232.301	151.793	89.139	32.440	3.186	1.371	0.006	0.006	0.000
35.0	223.304	146.231	85.376	29.931	1.721	0.738	0.000	0.000	0.000
37.5	205.661	128.116	72.866	25.047	0.888	0.383	0.000	0.000	0.000
40.0	188.017	109.995	60.351	20.163	0.056	0.022	0.000	0.000	0.000
42.5	173.082	100.005	54.507	18.198	0.033	0.017	0.000	0.000	0.000
45.0	158.142	90.015	48.657	16.228	0.011	0.006	0.000	0.000	0.000
47.5	151.060	86.447	46.870	15.634	0.017	0.006	0.000	0.000	0.000
50.0	143.984	82.878	45.077	15.046	0.022	0.011	0.000	0.000	0.000
52.5	140.665	78.261	41.792	13.958	0.033	0.017	0.000	0.000	0.000
55.0	137.346	73.643	38.500	12.870	0.044	0.017	0.000	0.000	0.000
57.5	126.246	63.337	31.752	10.601	0.022	0.011	0.000	0.000	0.000
60.0	115.151	53.030	25.003	8.336	0.000	0.000	0.000	0.000	0.000
62.5	93.978	42.546	19.791	6.599	0.000	0.000	0.000	0.000	0.000
65.0	72.810	32.062	14.585	4.862	0.000	0.000	0.000	0.000	0.000
67.5	51.221	25.791	12.954	4.318	0.000	0.000	0.000	0.000	0.000
70.0	29.631	19.514	11.322	3.774	0.000	0.000	0.000	0.000	0.000
72.5	22.161	13.897	7.887	2.631	0.000	0.000	0.000	0.000	0.000
75.0	14.691	8.281	4.451	1.482	0.000	0.000	0.000	0.000	0.000
77.5	11.011	5.150	2.459	0.821	0.000	0.000	0.000	0.000	0.000
80.0	7.326	2.026	0.466	0.155	0.000	0.000	0.000	0.000	0.000
82.5	5.600	1.399	0.233	0.078	0.000	0.000	0.000	0.000	0.000
85.0	3.874	0.777	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	2.864	0.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	1.848	0.372	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	106.27	N.A.	8.10
0-30	230.37	N.A.	17.60
0-40	404.12	N.A.	30.90
0-60	870.04	N.A.	66.50
0-80	1234.79	N.A.	94.30
0-90	1309.08	N.A.	100.00
10-90	1280.75	N.A.	97.80
20-40	297.85	N.A.	22.80
20-50	516.29	N.A.	39.40
40-70	683.47	N.A.	52.20
60-80	364.75	N.A.	27.90
70-80	147.20	N.A.	11.20
80-90	74.29	N.A.	5.70
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	1309.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	28.32
10-20	77.95
20-30	124.09
30-40	173.76
40-50	218.44
50-60	247.47
60-70	217.55
70-80	147.20
80-90	74.29
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

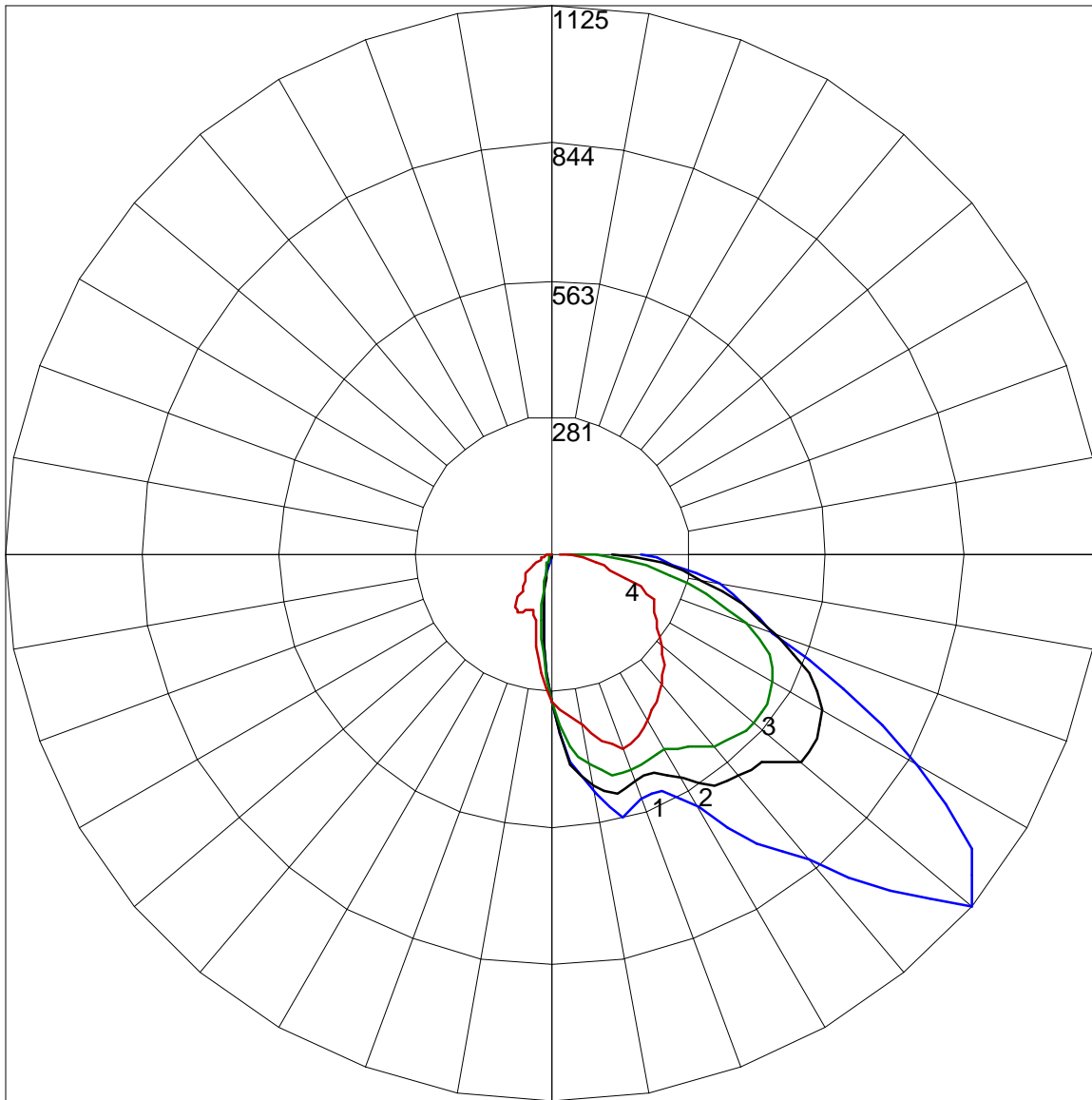
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	83	80	78
2	94	85	76	69	92	83	75	69	79	72	67	75	70	65	72	68	64	61
3	85	73	63	55	82	71	62	55	68	60	54	65	58	53	62	57	52	49
4	77	63	53	45	74	62	52	45	59	51	44	57	49	44	54	48	43	41
5	70	56	45	38	68	54	45	38	52	44	37	50	43	37	48	42	36	34
6	64	49	39	32	62	48	39	32	46	38	32	45	37	31	43	36	31	29
7	59	44	35	28	57	43	34	28	42	34	28	40	33	27	39	32	27	25
8	55	40	31	24	53	39	31	24	38	30	24	37	29	24	35	29	24	22
9	51	37	28	22	50	36	27	22	35	27	21	34	26	21	33	26	21	19
10	48	34	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17

POLAR GRAPH



Maximum Candela = 1125.246 Located At Horizontal Angle = 0, Vertical Angle = 50

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (22.5 - 202.5)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)

# 4 - Vertical Plane Through Horizontal Angles (67.5 - 247.5)