

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-20LXXK-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)

[ISSUEDATE]

[TEST] SP-00408\_10\_R3\_M-20L

[TESTDATE] Sep 05 2014

[UPDATE] Nov 29 2016

[MANUFAC] Spectrum Lighting

[LUMCAT] SPC0612SQFTLEDXL-20L-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	1698
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	31.2
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	77401	41957	17857
55	102514	52369	19560
65	87255	65268	14995
75	87261	71138	4551
85	159479	95343	4467

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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>	397.253	397.253	397.253	397.253	397.253	397.253	397.253	397.253	397.253	397.253
<b>2.5</b>	478.015	481.126	484.236	476.978	466.258	450.022	428.270	409.990	402.098	394.214
<b>5.0</b>	558.770	564.998	571.226	556.704	535.262	502.790	459.288	422.719	406.944	391.169
<b>7.5</b>	605.729	604.649	603.569	586.022	562.990	527.947	480.895	437.760	406.375	374.990
<b>10.0</b>	652.687	644.299	635.911	615.348	590.717	553.104	502.495	452.794	405.799	358.805
<b>12.5</b>	689.234	670.853	652.471	630.979	608.458	574.265	528.408	476.640	407.138	337.637
<b>15.0</b>	725.774	697.399	669.024	646.618	626.191	595.426	554.321	500.486	408.478	316.469
<b>17.5</b>	709.949	683.712	657.475	639.202	623.592	599.918	568.174	523.411	439.567	355.723
<b>20.0</b>	694.116	670.018	645.919	631.793	620.993	604.404	582.034	546.329	470.657	394.978
<b>22.5</b>	696.362	671.717	647.071	632.124	620.417	600.264	571.680	536.177	479.938	423.706
<b>25.0</b>	698.602	673.409	648.223	632.455	619.834	596.124	561.319	526.018	489.226	452.426
<b>27.5</b>	740.498	708.379	676.253	648.130	621.338	588.514	549.655	511.258	474.221	437.184
<b>30.0</b>	782.395	743.342	704.290	663.804	622.836	580.896	537.991	496.498	459.216	421.934
<b>32.5</b>	863.647	799.862	736.078	686.369	641.347	590.170	532.822	480.478	443.146	405.806
<b>35.0</b>	944.899	856.382	767.866	708.934	659.866	599.436	527.652	464.465	427.068	389.678
<b>37.5</b>	1004.184	890.410	776.635	720.655	683.935	619.027	525.917	446.234	406.822	367.409
<b>40.0</b>	1063.469	924.437	785.405	732.370	708.012	638.618	524.189	428.004	386.568	345.132
<b>42.5</b>	1167.912	981.605	795.298	735.566	718.020	645.005	516.528	408.960	364.147	319.334
<b>45.0</b>	1272.348	1038.773	805.198	738.756	728.021	651.391	508.867	389.923	341.726	293.537
<b>47.5</b>	1366.063	1106.143	846.230	763.740	740.398	651.190	496.116	368.705	324.252	279.799
<b>50.0</b>	1459.778	1173.521	887.263	788.724	752.767	650.981	483.372	347.479	306.770	266.054
<b>52.5</b>	1413.367	1149.746	886.126	791.935	754.222	645.962	467.143	325.303	294.372	263.441
<b>55.0</b>	1366.949	1125.965	884.981	795.139	755.676	640.937	450.922	303.120	281.966	260.820
<b>57.5</b>	1246.010	1056.319	866.621	788.630	747.878	631.339	439.027	289.303	267.350	245.390
<b>60.0</b>	1125.079	986.666	848.261	782.122	740.074	621.742	427.133	275.486	252.727	229.968
<b>62.5</b>	991.174	898.747	806.328	754.999	717.365	604.793	417.276	266.868	227.758	188.647
<b>65.0</b>	857.261	810.828	764.388	727.870	694.656	587.837	407.426	258.250	202.788	147.319
<b>67.5</b>	742.140	722.218	702.302	674.510	644.105	545.998	380.203	238.478	168.962	99.446
<b>70.0</b>	627.019	633.614	640.210	621.158	593.554	504.158	352.980	218.700	135.137	51.566
<b>72.5</b>	576.029	580.975	585.929	563.666	532.339	444.550	300.298	175.147	107.309	39.478
<b>75.0</b>	525.038	528.343	531.641	506.182	471.125	384.934	247.608	131.587	79.481	27.382
<b>77.5</b>	490.385	481.406	472.428	444.794	410.940	334.282	214.834	113.760	67.817	21.881
<b>80.0</b>	455.724	434.470	413.208	383.400	350.748	283.630	182.059	95.933	56.153	16.380
<b>82.5</b>	389.426	372.910	356.393	324.101	286.560	223.812	135.850	63.526	38.124	12.715
<b>85.0</b>	323.129	311.350	299.570	264.802	222.372	163.987	89.640	31.126	20.088	9.050
<b>87.5</b>	280.066	258.192	236.318	191.318	138.607	93.398	55.685	25.099	15.890	6.682
<b>90.0</b>	237.002	205.034	173.066	117.835	54.842	22.810	21.730	19.073	11.693	4.313

**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>	397.253	397.253	397.253	397.253	397.253	397.253	397.253	397.253	397.253
<b>2.5</b>	376.877	359.539	347.508	337.248	329.126	323.150	318.823	319.435	320.054
<b>5.0</b>	356.494	321.826	297.763	277.236	261.000	249.055	240.401	241.625	242.849
<b>7.5</b>	333.331	291.679	261.749	235.728	214.380	197.705	185.436	186.379	187.330
<b>10.0</b>	310.169	261.540	225.734	194.213	167.753	146.354	130.471	131.141	131.810
<b>12.5</b>	282.658	227.678	188.366	154.274	128.520	111.089	97.409	94.982	92.563
<b>15.0</b>	255.146	193.824	150.998	114.343	89.280	75.816	64.339	58.824	53.309
<b>17.5</b>	269.338	182.959	131.126	90.806	64.116	51.041	40.241	36.259	32.278
<b>20.0</b>	283.536	172.094	111.247	67.277	38.945	26.258	16.135	13.687	11.239
<b>22.5</b>	300.845	177.984	109.469	59.054	28.274	17.129	8.438	7.114	5.789
<b>25.0</b>	318.154	183.881	107.683	50.839	17.604	7.992	0.734	0.533	0.331
<b>27.5</b>	315.598	194.011	114.106	48.089	11.822	5.299	0.374	0.274	0.166
<b>30.0</b>	313.034	204.134	120.521	45.338	6.034	2.599	0.022	0.007	0.000

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**CANDELA TABULATION - (Cont.)**

32.5	301.363	196.920	115.639	42.084	4.133	1.778	0.007	0.007	0.000
35.0	289.692	189.706	110.758	38.830	2.232	0.958	0.000	0.000	0.000
37.5	266.803	166.205	94.529	32.494	1.152	0.497	0.000	0.000	0.000
40.0	243.914	142.697	78.293	26.158	0.072	0.029	0.000	0.000	0.000
42.5	224.539	129.737	70.711	23.609	0.043	0.022	0.000	0.000	0.000
45.0	205.157	116.777	63.122	21.053	0.014	0.007	0.000	0.000	0.000
47.5	195.970	112.147	60.804	20.282	0.022	0.007	0.000	0.000	0.000
50.0	186.790	107.518	58.478	19.519	0.029	0.014	0.000	0.000	0.000
52.5	182.484	101.527	54.216	18.108	0.043	0.022	0.000	0.000	0.000
55.0	178.178	95.537	49.946	16.697	0.058	0.022	0.000	0.000	0.000
57.5	163.778	82.166	41.191	13.752	0.029	0.014	0.000	0.000	0.000
60.0	149.386	68.796	32.436	10.814	0.000	0.000	0.000	0.000	0.000
62.5	121.918	55.195	25.675	8.561	0.000	0.000	0.000	0.000	0.000
65.0	94.457	41.594	18.922	6.307	0.000	0.000	0.000	0.000	0.000
67.5	66.449	33.458	16.805	5.602	0.000	0.000	0.000	0.000	0.000
70.0	38.441	25.315	14.688	4.896	0.000	0.000	0.000	0.000	0.000
72.5	28.750	18.029	10.231	3.413	0.000	0.000	0.000	0.000	0.000
75.0	19.058	10.742	5.774	1.922	0.000	0.000	0.000	0.000	0.000
77.5	14.285	6.682	3.190	1.066	0.000	0.000	0.000	0.000	0.000
80.0	9.504	2.628	0.605	0.202	0.000	0.000	0.000	0.000	0.000
82.5	7.265	1.814	0.302	0.101	0.000	0.000	0.000	0.000	0.000
85.0	5.026	1.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	3.715	0.742	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	2.398	0.482	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	137.87	N.A.	8.10
0-30	298.85	N.A.	17.60
0-40	524.27	N.A.	30.90
0-60	1128.7	N.A.	66.50
0-80	1601.89	N.A.	94.30
0-90	1698.26	N.A.	100.00
10-90	1661.52	N.A.	97.80
20-40	386.40	N.A.	22.80
20-50	669.79	N.A.	39.40
40-70	886.66	N.A.	52.20
60-80	473.19	N.A.	27.90
70-80	190.96	N.A.	11.20
80-90	96.37	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	1698.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.74
10-20	101.12
20-30	160.99
30-40	225.41
40-50	283.38
50-60	321.05
60-70	282.23
70-80	190.96
80-90	96.37
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

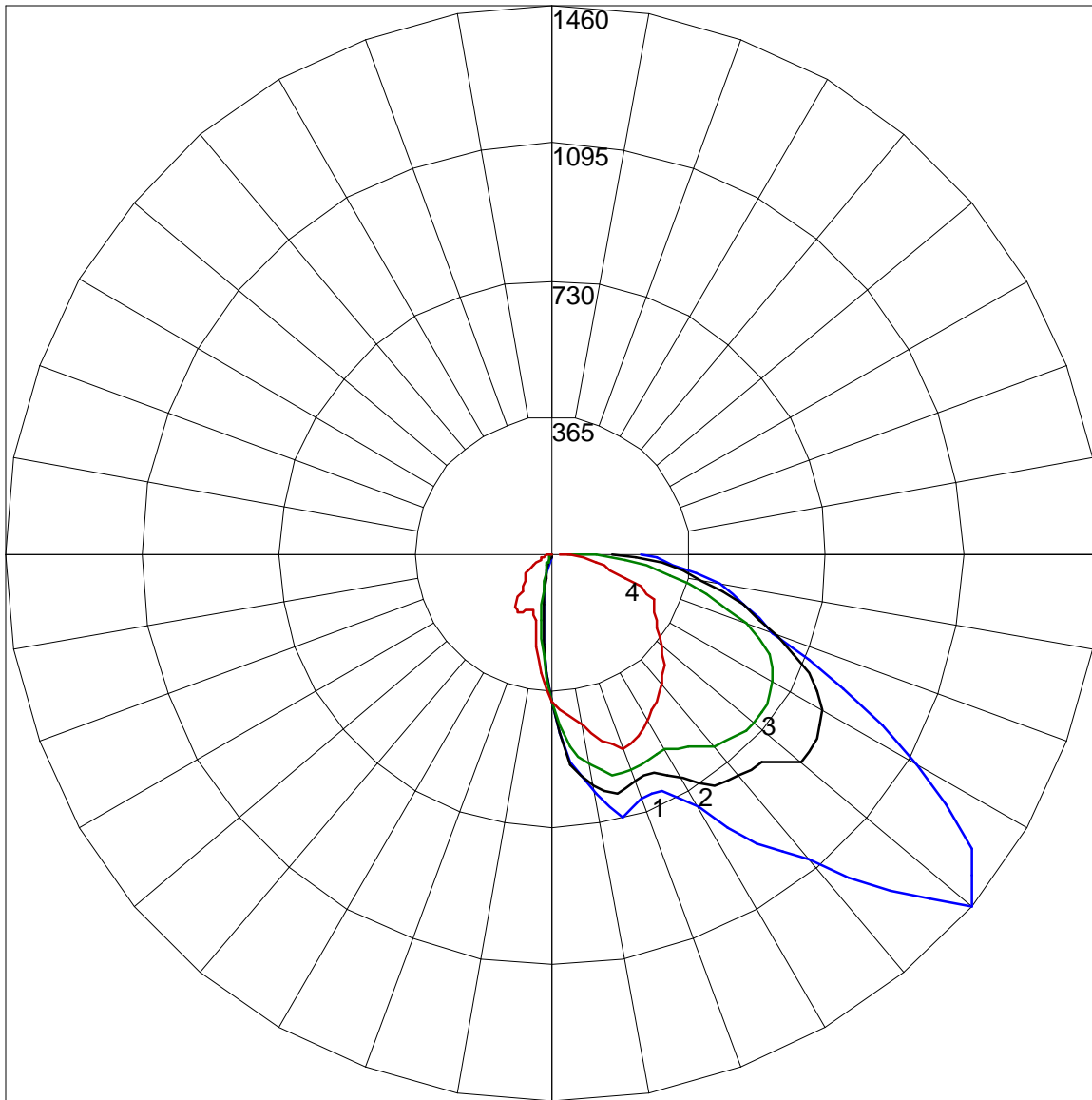
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	90	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 = 1459.778 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)