

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-30LXXK-FT-EX-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUEDATE]

[TEST] SP-00408\_10\_R3\_M-30L

[TESTDATE] Sep 05 2014

[UPDATE] Nov 29 2016

[MANUFAC] Spectrum Lighting

[LUMCAT] SPC0612SQFTLEDXL-30L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2359
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	48.7
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	107501	58273	24801
55	142381	72735	27167
65	121187	90650	20826
75	121195	98803	6321
85	221498	132421	6204

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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>	551.74	551.74	551.74	551.74	551.74	551.74	551.74	551.74	551.74	551.74
<b>2.5</b>	663.91	668.23	672.55	662.47	647.58	625.03	594.82	569.43	558.47	547.52
<b>5.0</b>	776.07	784.72	793.37	773.20	743.42	698.32	637.90	587.11	565.20	543.29
<b>7.5</b>	841.29	839.79	838.29	813.92	781.93	733.26	667.91	608.00	564.41	520.82
<b>10.0</b>	906.51	894.86	883.21	854.65	820.44	768.20	697.91	628.88	563.61	498.34
<b>12.5</b>	957.27	931.74	906.21	876.36	845.08	797.59	733.90	662.00	565.47	468.94
<b>15.0</b>	1008.02	968.61	929.20	898.08	869.71	826.98	769.89	695.12	567.33	439.54
<b>17.5</b>	986.04	949.60	913.16	887.78	866.10	833.22	789.13	726.96	610.51	494.06
<b>20.0</b>	964.05	930.58	897.11	877.49	862.49	839.45	808.38	758.79	653.69	548.58
<b>22.5</b>	967.17	932.94	898.71	877.95	861.69	833.70	794.00	744.69	666.58	588.48
<b>25.0</b>	970.28	935.29	900.31	878.41	860.88	827.95	779.61	730.58	679.48	628.37
<b>27.5</b>	1028.47	983.86	939.24	900.18	862.97	817.38	763.41	710.08	658.64	607.20
<b>30.0</b>	1086.66	1032.42	978.18	921.95	865.05	806.80	747.21	689.58	637.80	586.02
<b>32.5</b>	1199.51	1110.92	1022.33	953.29	890.76	819.68	740.03	667.33	615.48	563.62
<b>35.0</b>	1312.36	1189.42	1066.48	984.63	916.48	832.55	732.85	645.09	593.15	541.22
<b>37.5</b>	1394.70	1236.68	1078.66	1000.91	949.91	859.76	730.44	619.77	565.03	510.29
<b>40.0</b>	1477.04	1283.94	1090.84	1017.18	983.35	886.97	728.04	594.45	536.90	479.35
<b>42.5</b>	1622.10	1363.34	1104.58	1021.62	997.25	895.84	717.40	568.00	505.76	443.52
<b>45.0</b>	1767.15	1442.74	1118.33	1026.05	1011.14	904.71	706.76	541.56	474.62	407.69
<b>47.5</b>	1897.31	1536.31	1175.32	1060.75	1028.33	904.43	689.05	512.09	450.35	388.61
<b>50.0</b>	2027.47	1629.89	1232.31	1095.45	1045.51	904.14	671.35	482.61	426.07	369.52
<b>52.5</b>	1963.01	1596.87	1230.73	1099.91	1047.53	897.17	648.81	451.81	408.85	365.89
<b>55.0</b>	1898.54	1563.84	1229.14	1104.36	1049.55	890.19	626.28	421.00	391.62	362.25
<b>57.5</b>	1730.57	1467.11	1203.64	1095.32	1038.72	876.86	609.76	401.81	371.32	340.82
<b>60.0</b>	1562.61	1370.37	1178.14	1086.28	1027.88	863.53	593.24	382.62	351.01	319.40
<b>62.5</b>	1376.63	1248.26	1119.90	1048.61	996.34	839.99	579.55	370.65	316.33	262.01
<b>65.0</b>	1190.64	1126.15	1061.65	1010.93	964.80	816.44	565.87	358.68	281.65	204.61
<b>67.5</b>	1030.75	1003.08	975.42	936.82	894.59	758.33	528.06	331.22	234.67	138.12
<b>70.0</b>	870.86	880.02	889.18	862.72	824.38	700.22	490.25	303.75	187.69	71.62
<b>72.5</b>	800.04	806.91	813.79	782.87	739.36	617.43	417.08	243.26	149.04	54.83
<b>75.0</b>	729.22	733.81	738.39	703.03	654.34	534.63	343.90	182.76	110.39	38.03
<b>77.5</b>	681.09	668.62	656.15	617.77	570.75	464.28	298.38	158.00	94.19	30.39
<b>80.0</b>	632.95	603.43	573.90	532.50	487.15	393.93	252.86	133.24	77.99	22.75
<b>82.5</b>	540.87	517.93	494.99	450.14	398.00	310.85	188.68	88.23	52.95	17.66
<b>85.0</b>	448.79	432.43	416.07	367.78	308.85	227.76	124.50	43.23	27.90	12.57
<b>87.5</b>	388.98	358.60	328.22	265.72	192.51	129.72	77.34	34.86	22.07	9.28
<b>90.0</b>	329.17	284.77	240.37	163.66	76.17	31.68	30.18	26.49	16.24	5.99

**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>	551.74	551.74	551.74	551.74	551.74	551.74	551.74	551.74	551.74
<b>2.5</b>	523.44	499.36	482.65	468.40	457.12	448.82	442.81	443.66	444.52
<b>5.0</b>	495.13	446.98	413.56	385.05	362.50	345.91	333.89	335.59	337.29
<b>7.5</b>	462.96	405.11	363.54	327.40	297.75	274.59	257.55	258.86	260.18
<b>10.0</b>	430.79	363.25	313.52	269.74	232.99	203.27	181.21	182.14	183.07
<b>12.5</b>	392.58	316.22	261.62	214.27	178.50	154.29	135.29	131.92	128.56
<b>15.0</b>	354.37	269.20	209.72	158.81	124.00	105.30	89.36	81.70	74.04
<b>17.5</b>	374.08	254.11	182.12	126.12	89.05	70.89	55.89	50.36	44.83
<b>20.0</b>	393.80	239.02	154.51	93.44	54.09	36.47	22.41	19.01	15.61
<b>22.5</b>	417.84	247.20	152.04	82.02	39.27	23.79	11.72	9.88	8.04
<b>25.0</b>	441.88	255.39	149.56	70.61	24.45	11.10	1.02	0.74	0.46
<b>27.5</b>	438.33	269.46	158.48	66.79	16.42	7.36	0.52	0.38	0.23
<b>30.0</b>	434.77	283.52	167.39	62.97	8.38	3.61	0.03	0.01	0.00

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**CANDELA TABULATION - (Cont.)**

32.5	418.56	273.50	160.61	58.45	5.74	2.47	0.01	0.01	0.00
35.0	402.35	263.48	153.83	53.93	3.10	1.33	0.00	0.00	0.00
37.5	370.56	230.84	131.29	45.13	1.60	0.69	0.00	0.00	0.00
40.0	338.77	198.19	108.74	36.33	0.10	0.04	0.00	0.00	0.00
42.5	311.86	180.19	98.21	32.79	0.06	0.03	0.00	0.00	0.00
45.0	284.94	162.19	87.67	29.24	0.02	0.01	0.00	0.00	0.00
47.5	272.18	155.76	84.45	28.17	0.03	0.01	0.00	0.00	0.00
50.0	259.43	149.33	81.22	27.11	0.04	0.02	0.00	0.00	0.00
52.5	253.45	141.01	75.30	25.15	0.06	0.03	0.00	0.00	0.00
55.0	247.47	132.69	69.37	23.19	0.08	0.03	0.00	0.00	0.00
57.5	227.47	114.12	57.21	19.10	0.04	0.02	0.00	0.00	0.00
60.0	207.48	95.55	45.05	15.02	0.00	0.00	0.00	0.00	0.00
62.5	169.33	76.66	35.66	11.89	0.00	0.00	0.00	0.00	0.00
65.0	131.19	57.77	26.28	8.76	0.00	0.00	0.00	0.00	0.00
67.5	92.29	46.47	23.34	7.78	0.00	0.00	0.00	0.00	0.00
70.0	53.39	35.16	20.40	6.80	0.00	0.00	0.00	0.00	0.00
72.5	39.93	25.04	14.21	4.74	0.00	0.00	0.00	0.00	0.00
75.0	26.47	14.92	8.02	2.67	0.00	0.00	0.00	0.00	0.00
77.5	19.84	9.28	4.43	1.48	0.00	0.00	0.00	0.00	0.00
80.0	13.20	3.65	0.84	0.28	0.00	0.00	0.00	0.00	0.00
82.5	10.09	2.52	0.42	0.14	0.00	0.00	0.00	0.00	0.00
85.0	6.98	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	5.16	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	3.33	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	191.48	N.A.	8.10
0-30	415.08	N.A.	17.60
0-40	728.15	N.A.	30.90
0-60	1567.64	N.A.	66.50
0-80	2224.85	N.A.	94.30
0-90	2358.7	N.A.	100.00
10-90	2307.66	N.A.	97.80
20-40	536.67	N.A.	22.80
20-50	930.26	N.A.	39.40
40-70	1231.48	N.A.	52.20
60-80	657.21	N.A.	27.90
70-80	265.22	N.A.	11.20
80-90	133.85	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	2358.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.03
10-20	140.45
20-30	223.59
30-40	313.08
40-50	393.59
50-60	445.90
60-70	391.99
70-80	265.22
80-90	133.85
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

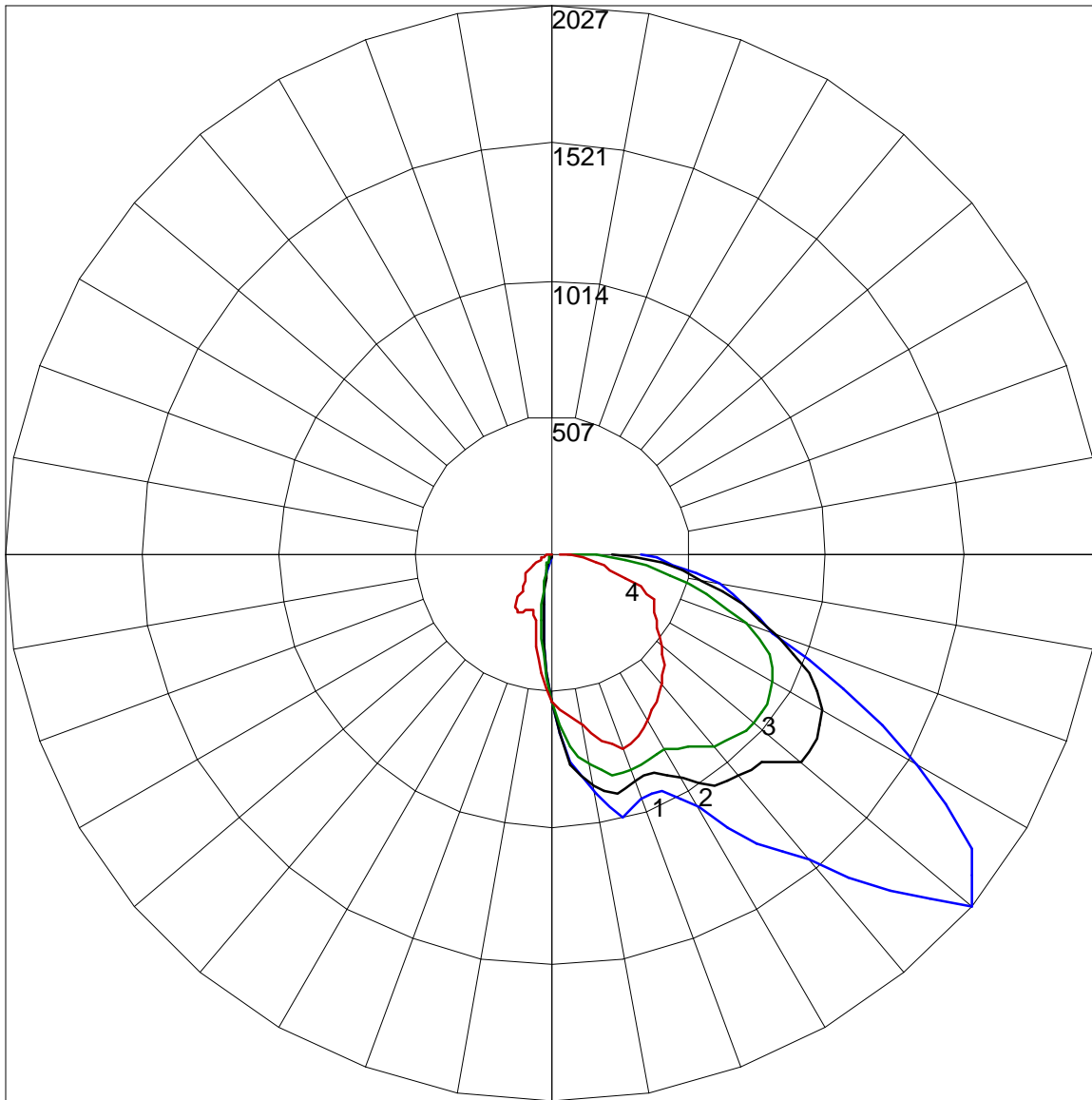
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2027.47 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)