

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-10LXXK-FT-EX-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

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

[ISSUE DATE]

[TEST] SP-00408_10_R3_M-10L

[TEST DATE] Sep 05 2014

[UPDATE] Nov 29 2016

[MANUFAC] Spectrum Lighting

[LUMCAT] SPC0612SQFTLEDXL-10L-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	920
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	14.8
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-10LXXK-FT-EX-GL.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	41925	22727	9672
55	55529	28367	10595
65	47263	35353	8122
75	47266	38533	2465
85	86384	51644	2419

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-10LXXK-FT-EX-GL.IES

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>
0.0	215.179	215.179	215.179	215.179	215.179	215.179	215.179	215.179	215.179	215.179
2.5	258.925	260.610	262.294	258.363	252.556	243.762	231.980	222.078	217.803	213.533
5.0	302.667	306.041	309.414	301.548	289.934	272.345	248.781	228.973	220.428	211.883
7.5	328.103	327.518	326.933	317.429	304.953	285.971	260.485	237.120	220.120	203.120
10.0	353.539	348.995	344.452	333.313	319.972	299.598	272.185	245.263	219.808	194.353
12.5	373.335	363.379	353.422	341.780	329.581	311.060	286.221	258.180	220.533	182.887
15.0	393.128	377.758	362.388	350.251	339.187	322.522	300.257	271.097	221.259	171.421
17.5	384.556	370.344	356.132	346.234	337.779	324.956	307.761	283.514	238.099	192.683
20.0	375.979	362.926	349.873	342.221	336.371	327.385	315.268	295.928	254.939	213.946
22.5	377.196	363.847	350.497	342.400	336.059	325.143	309.660	290.429	259.966	229.507
25.0	378.409	364.763	351.121	342.580	335.743	322.900	304.048	284.926	264.997	245.064
27.5	401.103	383.705	366.304	351.070	336.558	318.778	297.730	276.931	256.870	236.808
30.0	423.797	402.644	381.490	359.560	337.369	314.652	291.412	268.936	248.742	228.548
32.5	467.809	433.259	398.709	371.783	347.396	319.675	288.612	260.259	240.037	219.812
35.0	511.820	463.874	415.927	384.006	357.427	324.694	285.811	251.585	231.328	211.076
37.5	543.933	482.305	420.677	390.355	370.465	335.306	284.872	241.710	220.362	199.013
40.0	576.046	500.737	425.428	396.700	383.506	345.918	283.936	231.835	209.391	186.946
42.5	632.619	531.703	430.786	398.432	388.927	349.378	279.786	221.520	197.246	172.973
45.0	689.188	562.669	436.149	400.159	394.345	352.837	275.636	211.208	185.102	158.999
47.5	739.951	599.161	458.375	413.692	401.049	352.728	268.729	199.715	175.636	151.558
50.0	790.713	635.657	480.601	427.225	407.749	352.615	261.826	188.218	166.167	144.113
52.5	765.574	622.779	479.985	428.965	408.537	349.896	253.036	176.206	159.451	142.697
55.0	740.431	609.898	479.365	430.700	409.324	347.174	244.249	164.190	152.732	141.277
57.5	674.922	572.173	469.420	427.175	405.101	341.975	237.806	156.706	144.815	132.920
60.0	609.418	534.444	459.475	423.649	400.873	336.777	231.364	149.222	136.894	124.566
62.5	536.886	486.821	436.761	408.958	388.573	327.596	226.024	144.553	123.369	102.184
65.0	464.350	439.198	414.043	394.263	376.272	318.412	220.689	139.885	109.843	79.798
67.5	401.992	391.201	380.414	365.360	348.890	295.749	205.943	129.176	91.521	53.867
70.0	339.635	343.208	346.780	336.461	321.508	273.086	191.197	118.462	73.199	27.932
72.5	312.016	314.695	317.378	305.319	288.350	240.798	162.661	94.871	58.126	21.384
75.0	284.396	286.186	287.972	274.182	255.193	208.506	134.121	71.276	43.052	14.832
77.5	265.625	260.762	255.898	240.930	222.592	181.069	116.368	61.620	36.734	11.852
80.0	246.850	235.338	223.821	207.675	189.988	153.633	98.615	51.964	30.416	8.872
82.5	210.939	201.993	193.046	175.555	155.220	121.231	73.585	34.410	20.650	6.887
85.0	175.028	168.648	162.267	143.434	120.451	88.826	48.555	16.860	10.881	4.902
87.5	151.702	139.854	128.006	103.631	75.079	50.591	30.163	13.595	8.607	3.619
90.0	128.376	111.060	93.744	63.827	29.706	12.355	11.770	10.331	6.334	2.336

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>
0.0	215.179	215.179	215.179	215.179	215.179	215.179	215.179	215.179	215.179
2.5	204.142	194.750	188.233	182.676	178.277	175.040	172.696	173.027	173.363
5.0	193.101	174.322	161.288	150.169	141.375	134.905	130.217	130.880	131.543
7.5	180.554	157.993	141.781	127.686	116.122	107.090	100.444	100.955	101.470
10.0	168.008	141.667	122.273	105.199	90.866	79.275	70.672	71.035	71.397
12.5	153.106	123.326	102.032	83.565	69.615	60.173	52.763	51.449	50.138
15.0	138.204	104.988	81.791	61.936	48.360	41.067	34.850	31.863	28.876
17.5	145.891	99.103	71.027	49.187	34.729	27.647	21.797	19.640	17.484
20.0	153.582	93.218	60.259	36.442	21.095	14.223	8.740	7.414	6.088
22.5	162.958	96.408	59.296	31.988	15.315	9.278	4.571	3.853	3.136
25.0	172.333	99.602	58.328	27.538	9.535	4.329	0.398	0.289	0.179
27.5	170.949	105.089	61.807	26.048	6.404	2.870	0.203	0.148	0.090
30.0	169.560	110.573	65.282	24.558	3.268	1.408	0.012	0.004	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-10LXXK-FT-EX-GL.IES

CANDELA TABULATION - (Cont.)

32.5	163.238	106.665	62.638	22.795	2.239	0.963	0.004	0.004	0.000
35.0	156.916	102.757	59.994	21.033	1.209	0.519	0.000	0.000	0.000
37.5	144.518	90.028	51.203	17.601	0.624	0.269	0.000	0.000	0.000
40.0	132.120	77.294	42.409	14.169	0.039	0.016	0.000	0.000	0.000
42.5	121.625	70.274	38.302	12.788	0.023	0.012	0.000	0.000	0.000
45.0	111.127	63.254	34.191	11.404	0.008	0.004	0.000	0.000	0.000
47.5	106.150	60.746	32.935	10.986	0.012	0.004	0.000	0.000	0.000
50.0	101.178	58.239	31.676	10.573	0.016	0.008	0.000	0.000	0.000
52.5	98.845	54.994	29.367	9.808	0.023	0.012	0.000	0.000	0.000
55.0	96.513	51.749	27.054	9.044	0.031	0.012	0.000	0.000	0.000
57.5	88.713	44.507	22.312	7.449	0.016	0.008	0.000	0.000	0.000
60.0	80.917	37.264	17.569	5.858	0.000	0.000	0.000	0.000	0.000
62.5	66.039	29.897	13.907	4.637	0.000	0.000	0.000	0.000	0.000
65.0	51.164	22.530	10.249	3.416	0.000	0.000	0.000	0.000	0.000
67.5	35.993	18.123	9.103	3.034	0.000	0.000	0.000	0.000	0.000
70.0	20.822	13.712	7.956	2.652	0.000	0.000	0.000	0.000	0.000
72.5	15.573	9.766	5.542	1.849	0.000	0.000	0.000	0.000	0.000
75.0	10.323	5.819	3.128	1.041	0.000	0.000	0.000	0.000	0.000
77.5	7.738	3.619	1.728	0.577	0.000	0.000	0.000	0.000	0.000
80.0	5.148	1.423	0.328	0.109	0.000	0.000	0.000	0.000	0.000
82.5	3.935	0.983	0.164	0.055	0.000	0.000	0.000	0.000	0.000
85.0	2.722	0.546	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	2.012	0.402	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	1.299	0.261	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-10LXXK-FT-EX-GL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	74.68	N.A.	8.10
0-30	161.88	N.A.	17.60
0-40	283.98	N.A.	30.90
0-60	611.38	N.A.	66.50
0-80	867.69	N.A.	94.30
0-90	919.89	N.A.	100.00
10-90	899.99	N.A.	97.80
20-40	209.30	N.A.	22.80
20-50	362.80	N.A.	39.40
40-70	480.28	N.A.	52.20
60-80	256.31	N.A.	27.90
70-80	103.44	N.A.	11.20
80-90	52.20	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	919.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.90
10-20	54.78
20-30	87.20
30-40	122.10
40-50	153.50
50-60	173.90
60-70	152.88
70-80	103.44
80-90	52.20
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

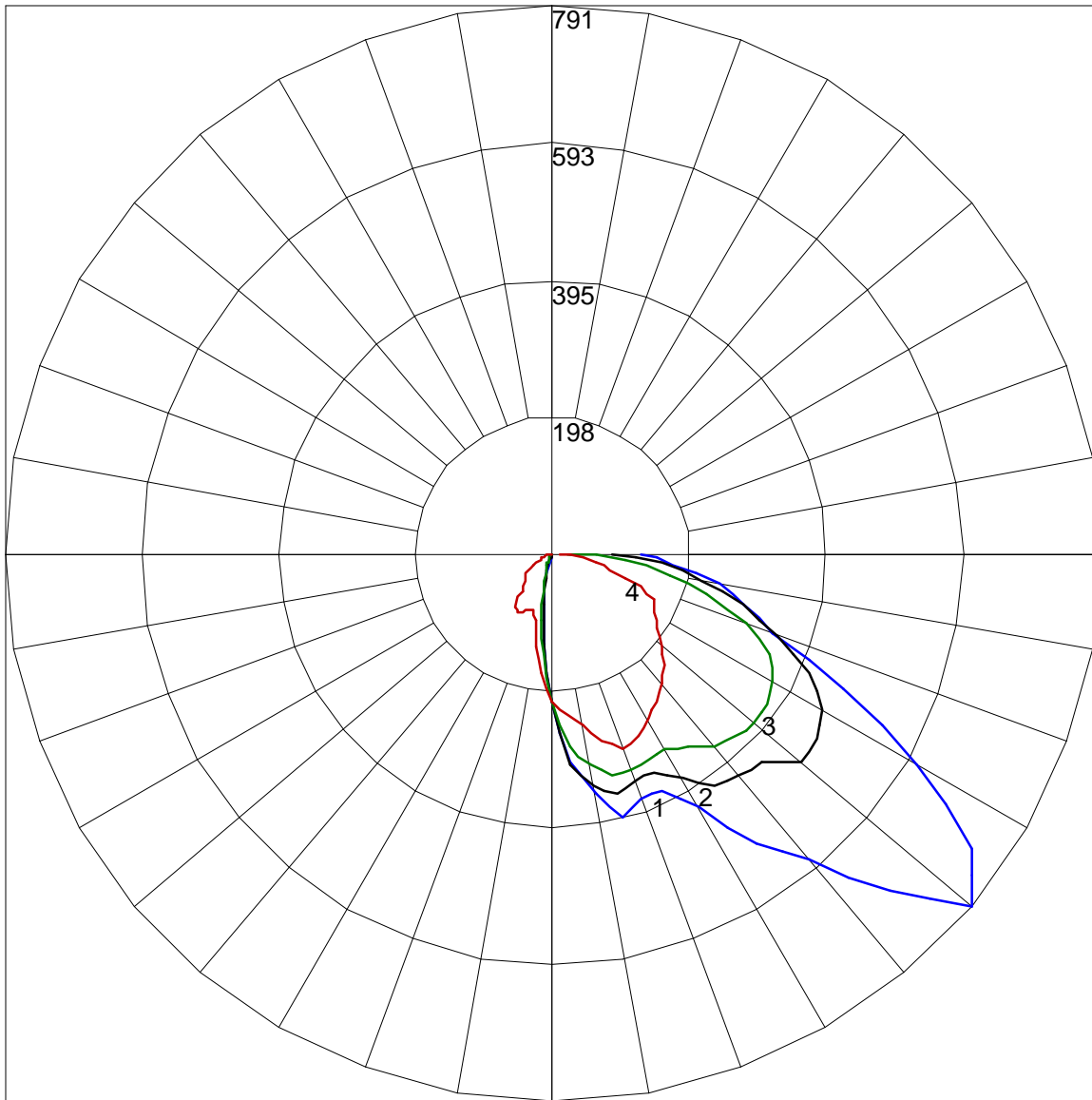
IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPC0612SQFTLEDXL-10LXXK-FT-EX-GL.IES

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 = 790.713 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)