

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00600_1 ~ CP0608XT-13L35K-NSD-EX-FASAL-PT.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00661_1_M-13L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/9/2018
 [LUMCAT] CP0608XT-13L35K-NSD-EX-FASAL-PT
 [LUMINAIRE] Nom 6" diam x 8.2" H, Carli Pendant decorative luminaire
 [LAMPCAT] N/A
 [LAMP] N/A, 19mm LES
 [OTHER] No Spherical Diffuser at LED
 [OTHER] Frosted Acrylic Upper Lens
 [OTHER] Aluminum Shade
 [OTHER] 92.7% Downlight
 [OTHER] 7.3% Uplight
 [OTHER] Luminaire tested with Platinum painted finish
 [OTHER] Total Luminaire watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] This report prepared by Spectrum Lighting, scaled from 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1004
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.02
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.12 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00600_1 ~ CP0608XT-13L35K-NSD-EX-FASAL-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6562	6442	6701
55	5980	5858	5983
65	5691	5552	5336
75	6039	5970	5615
85	6147	6335	6003

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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	591.095	591.095	591.095	591.095	591.095	591.095	591.095	591.095	591.095	591.095
2.5	583.292	586.158	588.942	590.179	594.488	597.790	596.274	597.034	594.010	593.859
5.0	575.128	580.174	582.158	588.896	592.595	595.457	596.422	594.270	593.142	591.257
7.5	566.397	568.573	572.363	580.237	587.528	589.705	591.447	589.182	587.259	582.774
10.0	548.878	552.046	552.071	561.705	569.496	569.486	569.134	563.998	565.727	565.091
12.5	528.991	529.123	525.568	537.499	543.176	542.539	544.183	533.861	541.705	538.120
15.0	505.090	500.708	500.971	505.971	515.477	513.755	510.913	505.035	510.276	512.182
17.5	480.187	479.361	477.441	481.804	486.926	484.152	482.121	476.514	482.994	487.237
20.0	464.795	463.781	462.486	466.665	468.697	466.307	466.788	462.440	467.484	468.547
22.5	451.696	452.947	452.081	454.891	456.490	453.405	453.705	451.534	454.584	455.650
25.0	444.683	445.791	445.732	447.159	448.332	445.758	447.069	445.997	448.632	446.493
27.5	439.020	438.882	441.485	440.625	442.445	440.265	440.773	441.538	442.745	440.680
30.0	418.058	432.159	410.912	435.458	428.252	426.085	435.388	422.228	437.024	424.677
32.5	393.979	365.927	367.445	383.272	409.576	408.559	400.861	400.123	400.767	400.018
35.0	283.802	256.797	273.530	280.056	320.360	311.668	291.424	288.208	290.101	320.364
37.5	156.749	182.979	156.287	198.251	195.133	186.096	198.913	160.519	198.061	195.637
40.0	127.184	133.697	116.511	139.195	141.014	138.531	148.037	130.597	148.759	133.923
42.5	115.004	112.898	111.689	109.160	121.769	118.393	112.081	116.174	114.345	122.014
45.0	110.609	111.168	108.579	108.448	112.952	111.269	110.679	111.285	113.251	114.450
47.5	107.468	107.257	106.198	105.680	109.046	108.427	107.888	107.793	110.685	110.149
50.0	101.994	101.961	100.844	100.938	103.484	102.384	102.013	102.316	105.013	104.660
52.5	96.161	96.004	94.300	95.147	97.187	95.358	96.021	96.572	98.897	98.309
55.0	89.965	89.643	88.126	88.369	89.996	88.221	89.779	89.817	91.895	91.901
57.5	83.718	84.103	82.097	82.494	82.419	81.050	83.413	82.942	85.561	85.452
60.0	79.459	79.045	77.386	77.425	76.516	75.172	76.797	78.029	80.529	79.581
62.5	75.450	75.494	73.157	72.812	71.295	69.653	71.396	73.336	75.808	74.093
65.0	72.696	72.784	70.918	68.589	68.163	66.115	68.343	69.720	71.658	70.283
67.5	70.086	70.337	69.374	65.497	65.833	63.099	65.501	66.210	68.274	67.561
70.0	67.294	68.030	66.628	63.345	62.772	60.657	63.053	63.938	66.223	64.864
72.5	64.486	65.218	63.482	60.865	59.438	58.360	60.395	61.768	63.725	62.184
75.0	61.082	62.146	60.383	58.126	56.797	55.165	57.368	58.876	60.463	59.582
77.5	57.626	58.934	57.300	55.132	54.398	51.767	54.079	55.931	57.047	57.026
80.0	52.817	55.652	53.353	51.942	50.730	48.355	50.341	51.956	53.383	53.129
82.5	47.902	51.411	49.151	48.418	46.645	44.940	46.716	47.917	49.986	48.469
85.0	43.945	46.714	45.292	44.647	42.919	41.567	43.278	44.477	47.001	43.954
87.5	40.048	41.772	41.530	41.181	39.306	38.203	39.843	41.066	43.413	39.516
90.0	35.973	36.721	38.266	37.927	35.826	35.090	36.414	38.340	38.920	36.133
92.5	31.888	33.275	35.132	34.739	32.385	32.022	33.255	35.643	34.947	33.286
95.0	29.448	30.506	31.677	31.595	29.929	29.271	30.501	31.862	31.716	30.412
97.5	27.079	28.054	28.141	28.198	27.749	26.577	27.849	28.051	28.756	27.523
100.0	25.275	25.732	26.593	24.638	25.622	24.641	25.344	26.512	26.168	25.284
102.5	23.488	23.897	25.508	22.560	23.508	22.829	23.340	25.016	23.901	23.350
105.0	21.783	22.251	22.960	21.395	21.376	20.695	22.017	21.616	22.058	21.066
107.5	20.080	19.352	20.098	20.283	19.240	18.515	20.532	18.190	18.872	18.624
110.0	13.984	16.000	18.535	19.202	16.491	17.305	18.828	11.818	14.000	14.050
112.5	7.839	11.354	17.241	18.108	13.599	16.229	16.682	5.505	9.508	8.554
115.0	5.303	6.250	14.568	17.007	11.530	15.207	13.976	4.184	5.474	5.385
117.5	2.777	3.708	11.637	16.023	9.644	14.193	10.791	2.870	2.897	3.162
120.0	1.945	2.014	8.461	15.101	8.351	12.959	7.020	1.916	2.021	1.970
122.5	1.124	1.267	5.244	13.000	7.177	11.703	4.279	0.993	1.405	1.180
125.0	0.877	0.814	3.730	10.278	6.007	9.060	2.752	0.975	1.076	0.873

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CANDELA TABULATION - (Cont.)

127.5	0.643	0.710	2.496	7.629	4.838	6.282	1.784	0.952	0.910	0.746
130.0	0.790	0.710	1.766	5.016	3.615	4.415	1.443	0.839	0.919	0.737
132.5	0.935	0.753	1.110	3.424	2.382	2.624	1.149	0.729	0.848	0.769
135.0	1.011	0.807	0.981	2.313	2.068	2.073	0.905	0.669	0.694	0.762
137.5	1.073	0.747	0.922	1.704	1.903	1.609	0.744	0.616	0.641	0.742
140.0	0.829	0.656	0.873	1.327	1.536	1.130	0.665	0.652	0.687	0.673
142.5	0.610	0.652	0.825	1.105	1.139	0.651	0.647	0.688	0.661	0.590
145.0	0.772	0.668	0.759	0.950	0.989	0.608	0.690	0.706	0.566	0.645
147.5	0.929	0.662	0.692	0.961	0.872	0.587	0.779	0.722	0.590	0.742
150.0	1.051	0.650	0.790	1.040	0.818	0.646	0.912	0.714	0.721	0.683
152.5	1.147	0.698	0.905	1.041	0.770	0.709	0.864	0.712	0.759	0.580
155.0	0.956	0.760	0.913	1.011	0.814	0.642	0.649	0.773	0.716	0.699
157.5	0.786	0.796	0.909	0.833	0.868	0.578	0.520	0.805	0.669	0.875
160.0	0.714	0.828	0.846	0.610	0.918	0.610	0.452	0.708	0.622	0.876
162.5	0.677	0.864	0.848	0.922	0.911	0.645	0.523	0.768	0.581	0.839
165.0	0.688	0.841	0.998	1.057	0.756	0.688	0.601	1.028	0.593	0.713
167.5	0.750	0.741	0.990	0.833	0.770	0.829	0.577	0.805	0.795	0.765
170.0	0.927	1.043	0.941	0.982	0.800	0.848	0.710	0.680	0.801	0.928
172.5	1.009	0.866	0.903	0.942	0.768	0.778	0.749	0.683	0.720	1.037
175.0	0.785	0.803	0.799	0.967	0.744	1.030	0.717	0.702	0.699	0.650
177.5	0.664	0.708	0.896	0.836	0.591	0.751	0.692	0.817	0.576	0.698
180.0	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779

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	591.095	591.095	591.095	591.095	591.095	591.095	591.095
2.5	591.361	590.981	588.018	587.729	584.832	584.548	583.292
5.0	590.094	585.531	583.451	581.203	574.816	576.090	575.128
7.5	582.424	576.238	572.576	570.775	563.843	565.941	566.397
10.0	565.092	557.362	552.871	553.033	546.907	550.073	548.878
12.5	542.415	532.173	529.595	532.044	528.502	532.342	528.991
15.0	511.965	506.826	501.572	505.201	505.387	508.732	505.090
17.5	487.211	481.381	478.910	481.984	481.149	486.751	480.187
20.0	470.320	463.956	463.022	464.961	465.833	469.759	464.795
22.5	456.873	451.358	451.227	451.885	452.473	454.984	451.696
25.0	448.010	444.135	444.496	445.298	445.431	446.562	444.683
27.5	441.243	440.026	437.510	438.553	439.659	438.736	439.020
30.0	437.167	417.901	430.223	431.558	418.986	432.511	418.058
32.5	396.157	385.740	371.476	382.377	395.434	397.665	393.979
35.0	310.103	295.324	255.230	269.852	286.267	287.908	283.802
37.5	229.387	174.192	175.976	185.635	162.064	195.718	156.749
40.0	154.953	127.594	137.187	142.996	132.608	146.749	127.184
42.5	115.155	119.382	117.741	118.267	118.634	111.938	115.004
45.0	114.666	114.521	118.415	118.515	113.589	109.921	110.609
47.5	111.537	111.292	115.723	115.987	109.897	106.959	107.468
50.0	105.559	105.156	109.654	109.782	103.564	101.864	101.994
52.5	98.854	97.685	102.398	102.597	96.873	96.145	96.161
55.0	91.380	90.584	93.995	94.141	90.336	89.095	89.965
57.5	84.343	83.649	87.321	87.025	83.819	82.283	83.718
60.0	77.746	78.031	82.239	81.559	78.580	75.958	79.459
62.5	72.291	72.968	77.718	77.310	73.484	70.744	75.450
65.0	67.927	70.102	73.693	74.483	70.517	67.712	72.696

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67.5	64.174	68.110	71.055	72.045	67.757	64.685	70.086
70.0	60.994	65.710	69.605	70.050	65.501	61.664	67.294
72.5	58.038	63.154	67.349	67.553	63.289	58.703	64.486
75.0	55.281	60.200	64.436	64.509	59.810	55.850	61.082
77.5	52.598	57.102	60.329	60.689	56.235	52.807	57.626
80.0	49.979	53.098	55.283	56.065	52.814	49.440	52.817
82.5	46.183	48.779	50.223	51.351	49.402	45.756	47.902
85.0	41.414	44.895	45.151	46.545	44.396	41.558	43.945
87.5	37.531	41.155	40.404	41.792	39.302	37.677	40.048
90.0	34.345	37.240	35.891	37.090	35.695	34.295	35.973
92.5	31.439	33.269	32.271	32.937	32.150	31.073	31.888
95.0	28.745	30.348	29.281	29.295	28.895	28.093	29.448
97.5	26.774	27.735	26.872	26.521	25.648	25.516	27.079
100.0	25.332	25.423	24.854	24.527	24.233	23.516	25.275
102.5	23.284	23.194	22.925	22.783	22.859	21.534	23.488
105.0	20.816	21.546	21.053	21.255	20.779	19.577	21.783
107.5	18.886	20.047	18.454	19.960	18.695	16.346	20.080
110.0	17.315	18.260	15.404	18.858	17.900	11.417	13.984
112.5	15.512	16.405	12.598	17.770	17.087	7.328	7.839
115.0	13.559	15.217	9.935	16.693	14.116	4.304	5.303
117.5	10.882	14.184	8.752	15.343	11.140	2.236	2.777
120.0	7.763	12.675	8.394	13.788	7.936	1.353	1.945
122.5	5.130	11.064	7.518	11.857	4.794	0.829	1.124
125.0	2.783	8.789	6.361	9.652	3.438	0.725	0.877
127.5	1.847	6.378	4.896	7.330	2.111	0.685	0.643
130.0	1.712	4.639	3.273	4.924	1.521	0.716	0.790
132.5	1.329	3.026	2.410	3.435	0.949	0.781	0.935
135.0	0.813	2.303	1.924	2.558	0.707	0.884	1.011
137.5	0.582	1.730	1.531	1.928	0.486	0.933	1.073
140.0	0.499	1.169	1.182	1.459	0.613	0.925	0.829
142.5	0.509	0.612	0.985	1.254	0.732	0.895	0.610
145.0	0.565	0.549	0.856	1.214	0.747	0.841	0.772
147.5	0.603	0.558	0.799	1.150	0.761	0.774	0.929
150.0	0.632	0.660	0.772	1.074	0.755	0.694	1.051
152.5	0.678	0.773	0.916	0.998	0.755	0.725	1.147
155.0	0.731	0.833	1.130	0.920	0.816	0.859	0.956
157.5	0.807	0.887	1.108	0.996	0.860	0.949	0.786
160.0	0.891	0.825	1.013	1.139	0.825	1.007	0.714
162.5	0.754	0.786	0.872	1.148	0.739	0.853	0.677
165.0	0.736	0.810	0.816	1.106	0.589	0.688	0.688
167.5	0.987	0.740	0.924	0.973	0.690	0.699	0.750
170.0	0.802	0.712	0.738	0.859	0.898	0.837	0.927
172.5	0.762	0.790	0.747	0.921	1.023	0.749	1.009
175.0	0.752	0.831	0.745	0.915	0.842	0.650	0.785
177.5	0.684	0.899	0.671	0.963	0.992	0.737	0.664
180.0	0.779	0.779	0.779	0.779	0.779	0.779	0.779

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Zone	Lumens	%Lamp	%Fixt
0-20	198.13	N.A.	19.70
0-30	404.42	N.A.	40.30
0-40	580.39	N.A.	57.80
0-60	750.08	N.A.	74.70
0-80	882.76	N.A.	87.90
0-90	931.09	N.A.	92.70
10-90	875.93	N.A.	87.20
20-40	382.26	N.A.	38.10
20-50	470.81	N.A.	46.90
40-70	239.83	N.A.	23.90
60-80	132.68	N.A.	13.20
70-80	62.54	N.A.	6.20
80-90	48.33	N.A.	4.80
90-110	55.54	N.A.	5.50
90-120	66.62	N.A.	6.60
90-130	70.62	N.A.	7.00
90-150	72.24	N.A.	7.20
90-180	72.93	N.A.	7.30
110-180	17.39	N.A.	1.70
0-180	1004.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.16
10-20	142.96
20-30	206.29
30-40	175.97
40-50	88.54
50-60	81.15
60-70	70.14
70-80	62.54
80-90	48.33
90-100	33.13
100-110	22.41
110-120	11.08
120-130	4.00
130-140	1.13
140-150	0.50
150-160	0.38
160-170	0.23
170-180	0.08

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

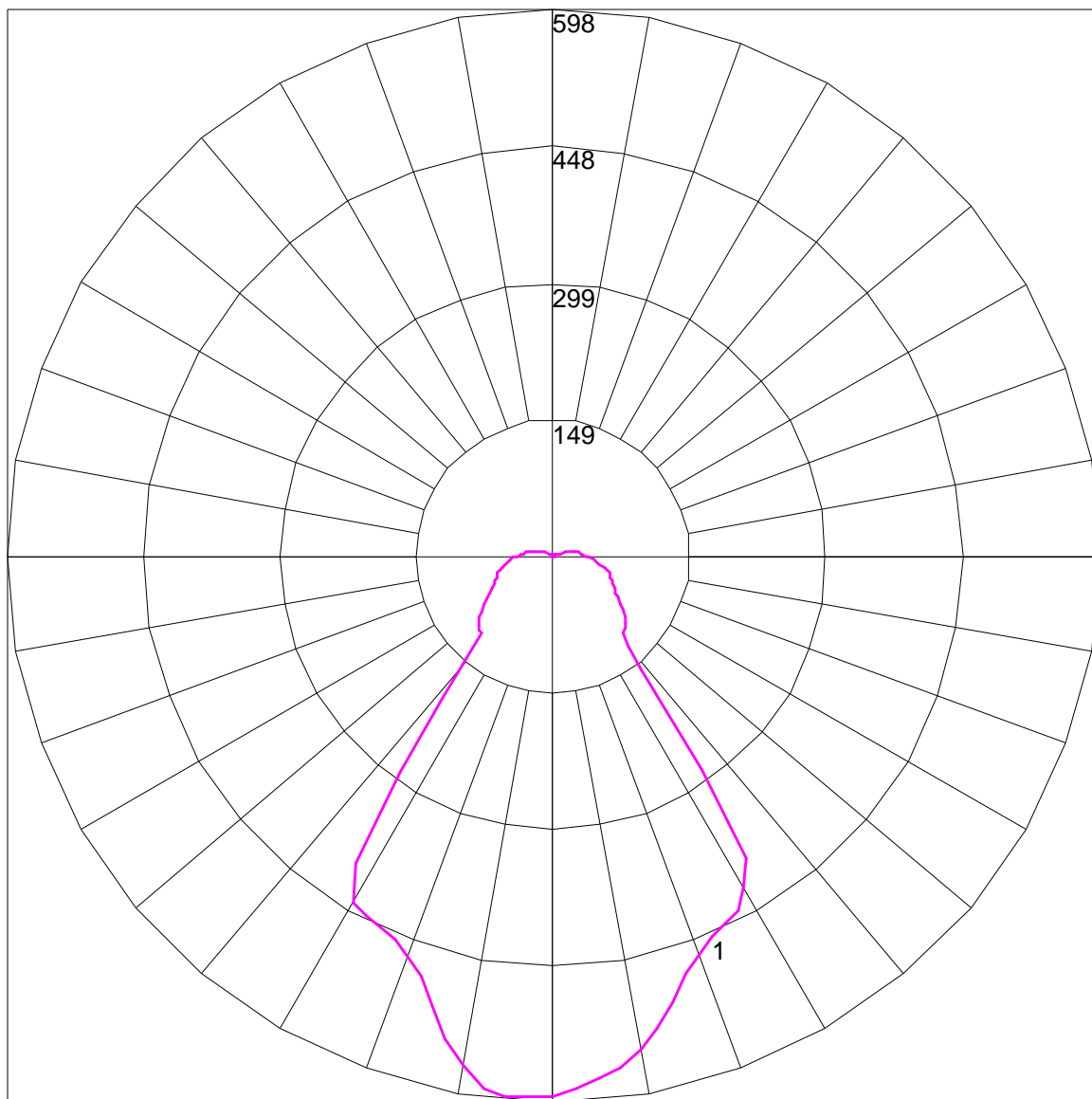
Effective Floor Cavity Reflectance 0.20

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	98	94	104	99	96	92	94	91	88	89	86	84	84	82	80	78
2	99	91	85	79	95	88	83	78	84	79	75	79	75	72	75	72	69	67
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	69	65	61	59
4	85	74	66	60	82	72	65	59	69	63	58	66	60	56	63	58	55	52
5	79	67	59	53	76	66	58	53	63	57	52	60	55	50	58	53	49	47
6	74	62	54	48	72	61	53	48	58	52	47	56	50	46	54	49	45	43
7	69	57	49	44	67	56	49	43	54	47	42	52	46	42	50	45	41	39
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36
9	61	49	42	37	60	48	41	36	47	40	36	45	39	35	44	39	35	33
10	58	46	39	34	56	45	38	34	44	38	33	42	37	33	41	36	32	31

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00600_1 ~ CP0608XT-13L35K-NSD-EX-FASAL-PT.IES

POLAR GRAPH



Maximum Candela = 597.79 Located At Horizontal Angle = 112.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)