

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00724_2 ~ CP0608XT-13L35K-OSD-EX-FASFA-PT.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00724_2_M-13L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 10/17/2018
 [UPDATE] 10/30/2018
 [LUMCAT] CP0608XT-13L-35K-OSD-EX-FASFA-PT
 [LUMINAIRE] Nom 6" diam x 8.2" H, Carli Pendant decorative luminaire
 [LAMPCAT] N/A
 [LAMP] N/A, 19mm LES
 [OTHER] Open Spherical Diffuser at LED
 [OTHER] Frosted Acrylic Lens
 [OTHER] Frosted Acrylic Shade
 [OTHER] 83.1% Downlight
 [OTHER] 16.9% Uplight
 [OTHER] Luminaire tested with Platinum painted finish
 [OTHER] Total Luminaire watts is approximate
 [OTHER] This report prepared by Spectrum Lighting,scaled from 20L
 [_CRI] 83
 [_CCTMULT] Same for all available CCT's
 [_LAMPMULT] 10L x 0.48, 13L x 0.65

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	434
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.64
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-00724_2 ~ CP0608XT-13L35K-OSD-EX-FASFA-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2904	2990	3056
55	1946	2110	2135
65	2266	2461	2296
75	2698	2981	2927
85	3796	3903	3734

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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	366.425	366.425	366.425	366.425	366.425	366.425	366.425	366.425	366.425	366.425
2.5	365.746	366.110	364.824	366.423	365.863	366.762	367.656	367.938	366.074	367.101
5.0	364.897	366.672	364.642	366.306	365.215	362.184	363.175	361.894	361.161	359.992
7.5	361.613	360.459	360.642	359.617	362.885	357.020	357.861	354.209	353.877	351.068
10.0	335.214	339.489	336.425	340.134	337.152	326.746	328.903	324.399	324.226	319.501
12.5	305.964	310.643	307.994	312.131	309.093	295.022	298.472	291.267	292.199	284.744
15.0	261.506	268.987	264.438	271.446	265.888	248.991	253.392	246.559	247.877	241.156
17.5	217.544	226.759	221.521	228.876	222.736	203.489	209.161	201.007	204.569	197.007
20.0	175.338	183.810	180.217	184.165	179.791	164.131	169.596	163.491	164.833	160.119
22.5	138.574	148.021	143.918	147.395	141.663	127.902	133.986	127.237	130.698	124.620
25.0	115.362	119.227	116.913	117.753	117.366	110.069	112.696	109.869	110.473	108.243
27.5	97.831	101.579	97.994	101.040	98.703	95.045	96.287	94.300	95.741	93.473
30.0	90.894	92.273	90.759	93.196	91.774	90.959	92.274	91.539	91.072	89.772
32.5	83.789	85.091	83.840	86.333	85.586	86.463	87.507	87.885	85.616	85.370
35.0	76.445	79.133	77.271	79.977	80.555	80.857	81.312	80.311	79.039	78.035
37.5	69.387	72.471	70.792	73.091	74.271	74.273	74.758	72.766	72.085	70.543
40.0	62.641	65.503	64.390	65.998	66.451	65.757	67.685	65.304	64.719	62.598
42.5	55.827	58.191	57.542	58.753	58.867	58.083	60.460	57.987	57.282	55.073
45.0	48.955	50.772	50.397	51.466	51.505	51.696	53.064	50.982	49.786	48.450
47.5	43.201	44.929	44.291	45.652	45.565	45.740	46.373	44.570	43.426	41.960
50.0	38.183	39.427	38.707	40.097	40.648	40.285	40.300	39.135	37.812	35.684
52.5	33.614	35.396	34.896	35.890	36.241	35.195	35.163	34.578	33.327	31.437
55.0	29.267	31.550	31.745	31.817	32.120	30.432	30.654	31.123	29.400	29.670
57.5	28.355	30.196	31.028	31.108	30.819	28.896	28.579	29.138	28.074	28.663
60.0	28.728	28.992	30.953	30.527	30.689	29.635	27.730	28.589	27.683	28.388
62.5	28.866	29.980	31.167	30.948	30.076	29.935	27.993	28.603	28.241	28.302
65.0	28.943	30.836	31.429	31.252	29.321	30.003	28.679	29.044	29.044	28.354
67.5	28.155	30.164	30.820	30.506	29.364	29.440	27.776	28.960	28.243	28.319
70.0	27.227	29.476	30.136	29.794	29.569	28.632	26.451	28.574	27.182	28.236
72.5	27.216	28.692	30.159	29.253	29.599	27.977	26.162	27.906	27.200	27.820
75.0	27.286	27.883	30.151	28.792	29.610	27.366	26.048	27.113	27.308	27.260
77.5	26.977	26.975	29.276	28.601	28.457	26.571	26.058	26.832	26.711	27.020
80.0	26.692	26.366	28.461	28.264	27.278	25.742	26.080	26.713	26.159	26.876
82.5	26.965	26.562	28.151	27.574	26.964	25.784	25.493	26.641	26.632	27.253
85.0	27.137	26.797	27.904	27.304	26.693	25.916	24.909	26.580	27.062	27.735
87.5	26.504	27.110	27.955	27.785	26.857	25.921	24.630	26.223	27.148	27.493
90.0	25.936	27.321	27.857	27.973	27.027	25.889	24.420	25.828	27.130	27.164
92.5	25.666	27.375	27.287	27.754	27.235	24.959	24.789	26.455	26.630	27.363
95.0	25.470	27.081	26.699	27.585	27.217	24.204	24.920	27.111	26.316	27.571
97.5	25.505	26.379	26.069	27.468	26.372	25.081	23.914	26.316	26.584	27.074
100.0	25.191	25.831	25.592	27.004	25.726	25.682	23.246	25.561	26.505	26.557
102.5	24.066	25.424	25.379	26.254	25.594	24.838	23.660	25.289	25.637	25.817
105.0	23.281	24.315	25.023	24.436	24.901	22.664	23.589	24.868	24.697	25.101
107.5	23.080	22.713	24.477	21.941	23.133	15.944	22.375	23.534	23.634	24.524
110.0	22.491	22.077	23.604	15.043	18.381	9.718	20.953	22.249	22.625	23.771
112.5	21.392	21.954	22.391	6.016	9.252	4.709	19.168	21.148	21.686	22.364
115.0	19.852	20.451	19.043	2.621	3.646	1.384	15.995	19.937	20.605	20.973
117.5	17.858	18.399	13.991	1.203	1.990	1.169	10.950	18.424	19.379	19.630
120.0	16.027	16.972	9.040	0.861	1.152	0.980	6.842	16.620	16.680	17.490
122.5	14.325	15.723	4.150	0.782	1.038	0.826	3.714	14.232	12.822	13.806
125.0	10.601	12.366	2.098	0.733	0.859	0.690	2.035	10.881	8.696	9.812

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CANDELA TABULATION - (Cont.)

127.5	5.645	8.619	1.374	0.688	0.637	0.576	1.519	6.077	4.408	5.361
130.0	3.231	5.633	1.031	0.768	0.687	0.589	1.179	2.923	2.340	2.520
132.5	1.993	2.725	0.815	0.856	0.876	0.710	0.947	1.721	1.296	1.532
135.0	1.415	1.847	0.770	0.662	0.794	0.805	0.832	1.141	1.060	1.110
137.5	1.056	1.060	0.763	0.479	0.606	0.885	0.772	1.126	1.094	1.188
140.0	0.942	1.041	0.733	0.520	0.595	0.728	0.697	1.037	0.981	1.092
142.5	0.885	1.017	0.701	0.554	0.632	0.453	0.618	0.896	0.835	0.874
145.0	0.997	0.942	0.681	0.533	0.644	0.509	0.534	0.748	0.846	0.739
147.5	1.134	0.870	0.662	0.534	0.652	0.685	0.449	0.596	0.880	0.647
150.0	0.920	0.812	0.583	0.635	0.740	0.692	0.521	0.636	0.770	0.677
152.5	0.686	0.782	0.521	0.730	0.834	0.655	0.618	0.753	0.652	0.754
155.0	0.734	0.852	0.689	0.807	0.743	0.565	0.800	0.778	0.712	0.852
157.5	0.796	0.881	0.794	0.845	0.656	0.466	0.969	0.778	0.760	0.956
160.0	0.963	0.823	0.603	0.809	0.643	0.515	0.790	0.765	0.725	0.829
162.5	1.031	0.747	0.530	0.828	0.586	0.574	0.733	0.782	0.703	0.711
165.0	0.938	0.658	0.611	0.884	0.451	0.652	0.933	0.934	0.705	0.719
167.5	0.822	0.885	0.582	0.901	0.592	0.667	0.765	0.833	0.648	0.728
170.0	0.721	0.819	0.648	0.780	0.726	0.642	0.680	0.699	0.779	0.727
172.5	0.629	0.655	0.702	0.672	0.744	0.645	0.777	0.805	0.963	0.716
175.0	0.574	0.712	0.600	0.674	0.670	0.787	0.734	0.949	0.778	0.717
177.5	0.560	0.741	0.700	0.799	0.538	0.745	0.864	0.751	0.815	0.526
180.0	0.737	0.737	0.737	0.737	0.737	0.737	0.737	0.737	0.737	0.737

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	366.425	366.425	366.425	366.425	366.425	366.425	366.425
2.5	366.533	365.902	367.108	366.311	365.136	366.695	365.746
5.0	360.081	358.380	361.220	364.431	363.432	366.294	364.897
7.5	352.629	348.936	352.337	357.201	357.690	358.927	361.613
10.0	321.312	317.223	321.616	332.745	331.646	336.872	335.214
12.5	288.713	281.637	288.335	302.748	301.481	307.162	305.964
15.0	244.381	237.237	243.641	260.010	257.398	265.367	261.506
17.5	201.002	192.013	200.373	217.315	213.549	222.364	217.544
20.0	162.459	156.918	161.404	174.695	170.268	177.865	175.338
22.5	128.214	122.860	128.516	139.277	134.053	141.942	138.574
25.0	108.896	107.364	109.055	113.476	110.559	114.162	115.362
27.5	93.968	93.161	94.820	97.384	94.644	98.354	97.831
30.0	89.807	89.926	89.320	91.225	89.364	91.251	90.894
32.5	84.856	85.912	83.730	85.100	83.460	84.562	83.789
35.0	78.476	78.137	78.026	79.002	76.885	78.107	76.445
37.5	71.446	70.429	71.517	71.929	69.742	71.421	69.387
40.0	63.499	62.939	64.211	64.257	62.133	64.638	62.641
42.5	55.975	55.617	56.757	57.217	55.195	56.991	55.827
45.0	48.908	48.693	49.190	50.467	48.691	49.086	48.955
47.5	42.470	42.192	42.854	44.529	42.277	43.252	43.201
50.0	36.561	36.433	37.235	38.870	35.907	37.845	38.183
52.5	32.429	31.703	32.819	33.934	32.242	33.453	33.614
55.0	29.453	28.384	28.942	29.167	29.532	29.178	29.267
57.5	28.043	27.122	27.984	28.863	28.473	29.474	28.355
60.0	27.397	28.019	27.965	29.187	27.831	29.946	28.728
62.5	27.520	28.189	28.055	29.843	27.988	30.015	28.866
65.0	27.922	27.775	28.169	30.521	28.270	30.004	28.943

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67.5	27.778	27.059	28.655	30.384	28.470	29.138	28.155
70.0	27.496	26.152	29.191	30.237	28.664	28.471	27.227
72.5	26.808	25.975	28.368	29.944	28.842	28.905	27.216
75.0	26.056	26.144	27.478	29.599	28.998	29.103	27.286
77.5	26.129	26.040	27.096	28.906	28.789	28.422	26.977
80.0	26.269	25.842	26.742	28.315	28.585	28.022	26.692
82.5	25.639	25.762	26.745	28.151	28.412	28.350	26.965
85.0	25.047	25.711	26.665	27.938	28.271	28.355	27.137
87.5	25.289	25.346	26.069	27.584	28.279	27.737	26.504
90.0	25.526	24.935	25.671	27.404	28.244	27.664	25.936
92.5	25.726	24.614	26.039	27.595	28.079	28.401	25.666
95.0	25.837	24.300	26.200	27.837	27.809	28.412	25.470
97.5	25.541	23.928	25.788	28.161	27.305	27.601	25.505
100.0	25.190	23.580	25.264	27.562	26.730	26.881	25.191
102.5	24.667	23.588	24.514	25.818	26.034	26.239	24.066
105.0	24.044	22.650	23.006	23.796	25.375	25.510	23.281
107.5	23.191	15.238	20.327	21.505	24.761	24.721	23.080
110.0	21.836	8.499	15.192	15.375	23.681	23.765	22.491
112.5	19.626	4.695	7.118	6.412	22.134	22.722	21.392
115.0	15.912	1.730	2.678	2.506	18.606	21.658	19.852
117.5	10.258	1.250	1.575	1.472	13.542	20.586	17.858
120.0	5.981	0.875	0.947	0.987	8.744	18.479	16.027
122.5	3.104	0.727	0.658	0.735	4.102	16.087	14.325
125.0	1.663	0.603	0.601	0.738	2.148	11.722	10.601
127.5	1.344	0.519	0.673	0.819	1.391	7.012	5.645
130.0	1.068	0.552	0.727	0.869	1.159	4.164	3.231
132.5	0.818	0.731	0.775	0.913	1.099	1.491	1.993
135.0	0.711	0.808	0.778	0.951	1.001	1.339	1.415
137.5	0.671	0.784	0.767	0.989	0.894	1.250	1.056
140.0	0.683	0.706	0.781	0.919	0.834	1.179	0.942
142.5	0.713	0.587	0.800	0.845	0.781	1.098	0.885
145.0	0.753	0.627	0.682	0.758	0.753	0.940	0.997
147.5	0.794	0.758	0.549	0.679	0.730	0.806	1.134
150.0	0.655	0.768	0.532	0.696	0.946	0.792	0.920
152.5	0.491	0.724	0.523	0.727	1.128	0.795	0.686
155.0	0.583	0.674	0.634	0.837	0.869	0.850	0.734
157.5	0.681	0.624	0.708	0.873	0.641	0.867	0.796
160.0	0.632	0.583	0.563	0.690	0.553	0.810	0.963
162.5	0.670	0.559	0.529	0.683	0.570	0.770	1.031
165.0	0.888	0.601	0.662	0.852	0.718	0.742	0.938
167.5	0.803	0.583	0.725	0.694	0.801	0.787	0.822
170.0	0.702	0.588	0.777	0.593	0.758	0.947	0.721
172.5	0.694	0.686	0.760	0.680	0.681	1.009	0.629
175.0	0.641	0.610	0.627	0.778	0.689	0.787	0.574
177.5	0.716	0.689	0.667	0.759	0.559	0.818	0.560
180.0	0.737	0.737	0.737	0.737	0.737	0.737	0.737

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Zone	Lumens	%Lamp	%Fixt
0-20	103.31	N.A.	23.80
0-30	157.19	N.A.	36.20
0-40	206.15	N.A.	47.50
0-60	273.47	N.A.	62.90
0-80	331.69	N.A.	76.30
0-90	360.98	N.A.	83.10
10-90	327.20	N.A.	75.30
20-40	102.84	N.A.	23.70
20-50	141.82	N.A.	32.60
40-70	96.12	N.A.	22.10
60-80	58.22	N.A.	13.40
70-80	29.41	N.A.	6.80
80-90	29.29	N.A.	6.70
90-110	53.71	N.A.	12.40
90-120	67.05	N.A.	15.40
90-130	71.51	N.A.	16.50
90-150	72.85	N.A.	16.80
90-180	73.46	N.A.	16.90
110-180	19.76	N.A.	4.50
0-180	434.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	33.78
10-20	69.53
20-30	53.88
30-40	48.97
40-50	38.98
50-60	28.34
60-70	28.81
70-80	29.41
80-90	29.29
90-100	28.79
100-110	24.92
110-120	13.34
120-130	4.46
130-140	0.87
140-150	0.47
150-160	0.34
160-170	0.20
170-180	0.07

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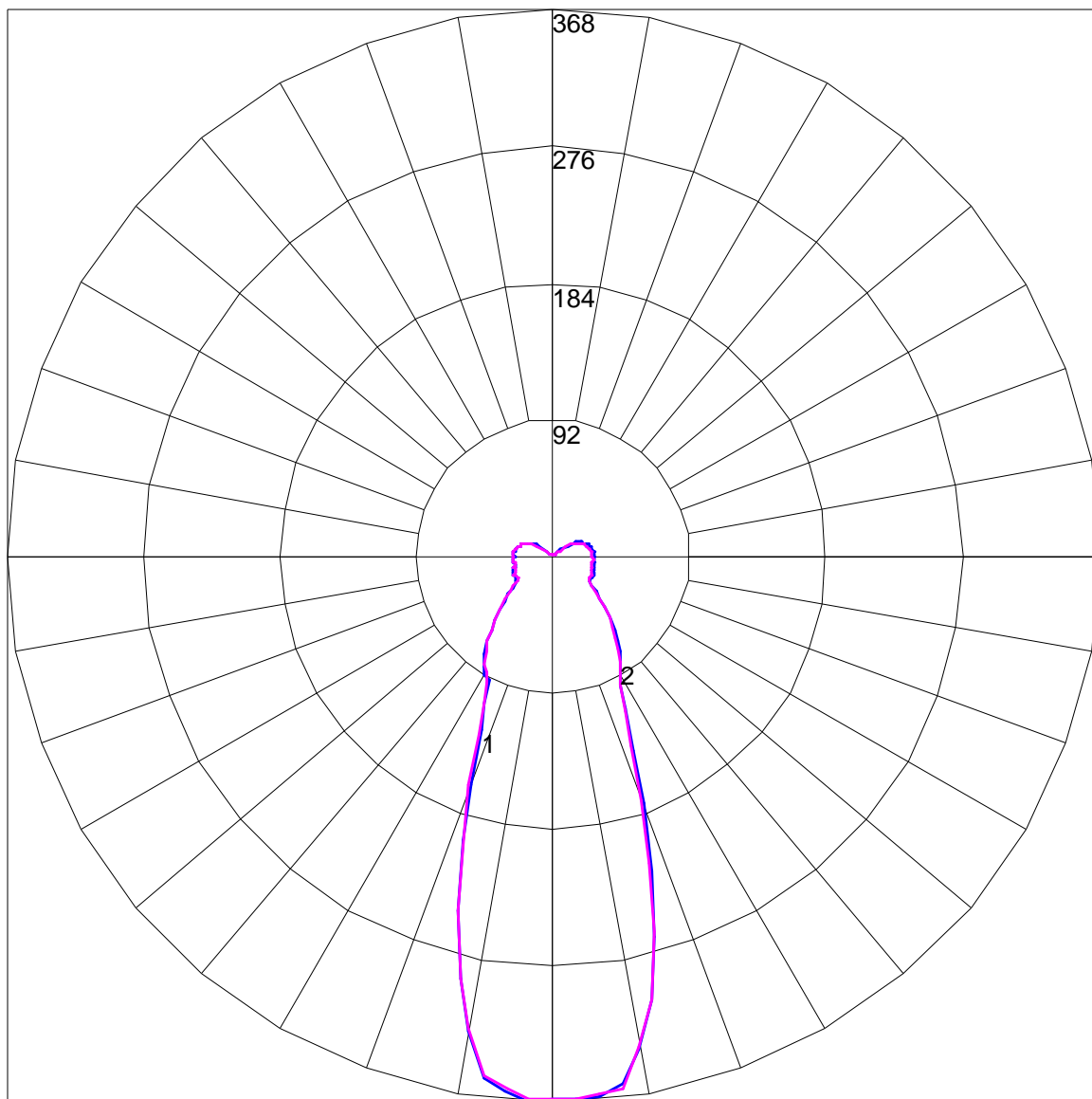
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	104	99	94	90	100	95	91	87	88	84	81	81	78	76	75	73	71	67
2	96	88	81	75	91	84	78	73	78	73	69	72	68	65	67	64	61	58
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	82	71	63	57	79	69	61	56	64	58	53	60	55	51	56	52	48	46
5	77	65	57	51	73	63	55	50	59	53	48	55	50	46	52	48	44	42
6	72	60	52	46	69	58	51	45	55	48	44	51	46	42	48	44	40	38
7	67	55	48	42	65	54	47	41	51	45	40	48	43	39	45	41	37	35
8	64	52	44	39	61	50	43	38	48	41	37	45	40	36	43	38	35	33
9	60	48	41	36	58	47	40	35	45	39	34	42	37	33	40	36	32	31
10	57	45	38	34	55	44	38	33	42	36	32	40	35	31	38	34	30	29

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00724_2 ~ CP0608XT-13L35K-OSD-EX-FASFA-PT.IES

POLAR GRAPH



Maximum Candela = 367.938 Located At Horizontal Angle = 157.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)