

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660_1 ~ CP0608XT-10L35K-NSD-EX-FASAL-PT.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00661_1_M-10L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/9/2018
 [LUMCAT] CP0608XT-10L35K-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	745
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	9.1
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-00660_1 ~ CP0608XT-10L35K-NSD-EX-FASAL-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4871	4782	4974
55	4439	4349	4441
65	4225	4121	3961
75	4483	4431	4168
85	4563	4703	4456

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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	438.774	438.774	438.774	438.774	438.774	438.774	438.774	438.774	438.774	438.774
2.5	432.982	435.109	437.176	438.094	441.293	443.744	442.618	443.183	440.938	440.826
5.0	426.922	430.667	432.140	437.142	439.888	442.012	442.729	441.131	440.294	438.895
7.5	420.441	422.056	424.869	430.715	436.126	437.743	439.036	437.354	435.927	432.598
10.0	407.436	409.788	409.807	416.958	422.741	422.734	422.473	418.660	419.944	419.471
12.5	392.674	392.772	390.133	398.990	403.204	402.731	403.951	396.289	402.112	399.451
15.0	374.932	371.679	371.874	375.586	382.642	381.365	379.255	374.891	378.782	380.197
17.5	356.447	355.833	354.408	357.647	361.449	359.390	357.882	353.720	358.530	361.680
20.0	345.021	344.268	343.307	346.409	347.918	346.144	346.500	343.273	347.017	347.806
22.5	335.297	336.226	335.583	337.669	338.856	336.566	336.788	335.177	337.441	338.232
25.0	330.091	330.914	330.871	331.930	332.800	330.890	331.863	331.067	333.023	331.436
27.5	325.888	325.785	327.718	327.080	328.431	326.812	327.190	327.757	328.653	327.120
30.0	310.328	320.795	305.023	323.244	317.895	316.286	323.192	313.423	324.406	315.241
32.5	292.453	271.631	272.757	284.506	304.031	303.277	297.562	297.014	297.493	296.937
35.0	210.669	190.622	203.044	207.888	237.806	231.353	216.326	213.939	215.345	237.808
37.5	116.356	135.827	116.013	147.163	144.848	138.140	147.655	119.154	147.023	145.223
40.0	94.410	99.244	86.487	103.325	104.676	102.832	109.889	96.943	110.425	99.412
42.5	85.369	83.805	82.908	81.030	90.390	87.884	83.199	86.237	84.879	90.572
45.0	82.106	82.521	80.599	80.502	83.845	82.596	82.158	82.607	84.067	84.957
47.5	79.774	79.618	78.831	78.447	80.946	80.486	80.086	80.016	82.163	81.764
50.0	75.711	75.686	74.857	74.927	76.817	76.001	75.725	75.950	77.952	77.690
52.5	71.381	71.265	70.000	70.628	72.142	70.785	71.277	71.686	73.412	72.976
55.0	66.781	66.543	65.417	65.597	66.805	65.487	66.643	66.672	68.214	68.219
57.5	62.145	62.430	60.941	61.236	61.181	60.164	61.918	61.568	63.513	63.431
60.0	58.983	58.676	57.444	57.473	56.798	55.801	57.007	57.921	59.777	59.073
62.5	56.007	56.040	54.305	54.049	52.923	51.704	52.998	54.438	56.273	55.000
65.0	53.963	54.028	52.643	50.914	50.598	49.077	50.731	51.754	53.192	52.172
67.5	52.025	52.212	51.497	48.619	48.869	46.839	48.622	49.148	50.680	50.151
70.0	49.953	50.499	49.459	47.022	46.596	45.026	46.805	47.462	49.158	48.149
72.5	47.868	48.412	47.123	45.181	44.121	43.321	44.832	45.851	47.304	46.160
75.0	45.341	46.132	44.823	43.148	42.161	40.950	42.584	43.704	44.882	44.228
77.5	42.776	43.747	42.534	40.925	40.380	38.427	40.144	41.518	42.347	42.331
80.0	39.207	41.311	39.605	38.557	37.657	35.894	37.369	38.567	39.626	39.438
82.5	35.558	38.163	36.485	35.941	34.625	33.360	34.678	35.569	37.105	35.979
85.0	32.620	34.676	33.621	33.141	31.859	30.856	32.125	33.016	34.890	32.627
87.5	29.728	31.008	30.828	30.569	29.177	28.358	29.576	30.484	32.226	29.333
90.0	26.703	27.258	28.405	28.153	26.594	26.047	27.031	28.460	28.891	26.822
92.5	23.671	24.700	26.079	25.787	24.040	23.770	24.685	26.458	25.942	24.709
95.0	21.859	22.645	23.514	23.453	22.216	21.728	22.641	23.652	23.543	22.575
97.5	20.101	20.825	20.889	20.932	20.598	19.728	20.673	20.823	21.346	20.430
100.0	18.762	19.101	19.740	18.289	19.019	18.292	18.813	19.680	19.425	18.768
102.5	17.436	17.739	18.935	16.747	17.450	16.946	17.326	18.569	17.742	17.333
105.0	16.170	16.517	17.043	15.881	15.867	15.362	16.344	16.046	16.374	15.637
107.5	14.906	14.365	14.919	15.056	14.282	13.744	15.241	13.502	14.009	13.825
110.0	10.381	11.877	13.758	14.254	12.242	12.846	13.976	8.772	10.393	10.429
112.5	5.819	8.428	12.798	13.442	10.094	12.047	12.383	4.086	7.058	6.350
115.0	3.936	4.640	10.814	12.625	8.559	11.289	10.374	3.106	4.064	3.997
117.5	2.061	2.753	8.638	11.894	7.159	10.535	8.010	2.131	2.151	2.347
120.0	1.444	1.495	6.281	11.210	6.199	9.620	5.211	1.422	1.500	1.462
122.5	0.835	0.941	3.892	9.650	5.327	8.687	3.176	0.737	1.043	0.876
125.0	0.651	0.605	2.769	7.629	4.459	6.726	2.043	0.724	0.799	0.648

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CANDELA TABULATION - (Cont.)

127.5	0.478	0.527	1.853	5.663	3.591	4.663	1.324	0.706	0.675	0.554
130.0	0.587	0.527	1.311	3.723	2.683	3.277	1.071	0.623	0.682	0.547
132.5	0.694	0.559	0.824	2.542	1.768	1.948	0.853	0.541	0.629	0.571
135.0	0.751	0.599	0.729	1.717	1.535	1.539	0.672	0.496	0.515	0.565
137.5	0.797	0.554	0.685	1.265	1.412	1.195	0.552	0.457	0.476	0.551
140.0	0.616	0.487	0.648	0.985	1.140	0.839	0.494	0.484	0.510	0.500
142.5	0.453	0.484	0.612	0.820	0.846	0.483	0.481	0.510	0.491	0.438
145.0	0.573	0.496	0.564	0.705	0.734	0.451	0.512	0.524	0.420	0.479
147.5	0.690	0.491	0.514	0.713	0.648	0.436	0.578	0.536	0.438	0.551
150.0	0.780	0.482	0.587	0.772	0.607	0.480	0.677	0.530	0.536	0.507
152.5	0.851	0.518	0.672	0.773	0.572	0.526	0.642	0.529	0.564	0.430
155.0	0.710	0.564	0.677	0.751	0.605	0.476	0.482	0.574	0.531	0.519
157.5	0.583	0.591	0.675	0.618	0.644	0.429	0.386	0.597	0.497	0.649
160.0	0.530	0.615	0.628	0.453	0.682	0.453	0.335	0.525	0.462	0.650
162.5	0.503	0.641	0.629	0.685	0.676	0.479	0.388	0.570	0.431	0.623
165.0	0.511	0.624	0.741	0.785	0.561	0.510	0.446	0.763	0.440	0.529
167.5	0.557	0.550	0.735	0.618	0.572	0.615	0.428	0.598	0.590	0.568
170.0	0.688	0.774	0.699	0.729	0.594	0.630	0.527	0.505	0.595	0.689
172.5	0.749	0.643	0.671	0.699	0.570	0.578	0.556	0.507	0.535	0.770
175.0	0.583	0.596	0.593	0.718	0.552	0.764	0.532	0.521	0.519	0.482
177.5	0.493	0.525	0.665	0.620	0.439	0.558	0.514	0.607	0.427	0.518
180.0	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578	0.578

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	438.774	438.774	438.774	438.774	438.774	438.774	438.774
2.5	438.972	438.690	436.490	436.276	434.125	433.915	432.982
5.0	438.031	434.644	433.100	431.431	426.691	427.636	426.922
7.5	432.338	427.746	425.027	423.691	418.545	420.103	420.441
10.0	419.472	413.734	410.400	410.521	405.974	408.323	407.436
12.5	402.639	395.036	393.123	394.940	392.311	395.161	392.674
15.0	380.036	376.221	372.321	375.014	375.152	377.636	374.932
17.5	361.661	357.333	355.499	357.780	357.160	361.319	356.447
20.0	349.122	344.398	343.705	345.144	345.791	348.706	345.021
22.5	339.140	335.047	334.950	335.438	335.874	337.738	335.297
25.0	332.561	329.685	329.953	330.548	330.647	331.487	330.091
27.5	327.538	326.635	324.767	325.541	326.362	325.677	325.888
30.0	324.513	310.211	319.358	320.349	311.017	321.056	310.328
32.5	294.070	286.338	275.749	283.841	293.534	295.190	292.453
35.0	230.192	219.221	189.459	200.313	212.498	213.716	210.669
37.5	170.276	129.304	130.629	137.799	120.301	145.283	116.356
40.0	115.023	94.714	101.835	106.147	98.436	108.933	94.410
42.5	85.481	88.618	87.400	87.791	88.063	83.093	85.369
45.0	85.118	85.010	87.900	87.975	84.318	81.595	82.106
47.5	82.795	82.613	85.902	86.098	81.578	79.396	79.774
50.0	78.358	78.058	81.397	81.492	76.876	75.615	75.711
52.5	73.380	72.512	76.011	76.159	71.910	71.369	71.381
55.0	67.832	67.241	69.773	69.882	67.057	66.136	66.781
57.5	62.609	62.093	64.819	64.600	62.219	61.080	62.145
60.0	57.712	57.923	61.047	60.542	58.330	56.384	58.983
62.5	53.662	54.165	57.691	57.388	54.548	52.514	56.007
65.0	50.423	52.038	54.703	55.290	52.345	50.263	53.963

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67.5	47.637	50.558	52.745	53.479	50.296	48.016	52.025
70.0	45.276	48.777	51.669	51.999	48.622	45.773	49.953
72.5	43.082	46.880	49.994	50.145	46.980	43.576	47.868
75.0	41.035	44.687	47.832	47.885	44.398	41.458	45.341
77.5	39.044	42.388	44.783	45.050	41.744	39.199	42.776
80.0	37.100	39.415	41.037	41.618	39.204	36.699	39.207
82.5	34.282	36.209	37.281	38.118	36.671	33.965	35.558
85.0	30.742	33.326	33.516	34.550	32.956	30.849	32.620
87.5	27.860	30.550	29.992	31.022	29.174	27.968	29.728
90.0	25.495	27.643	26.642	27.532	26.497	25.458	26.703
92.5	23.338	24.696	23.955	24.450	23.865	23.066	23.671
95.0	21.338	22.527	21.735	21.746	21.449	20.854	21.859
97.5	19.875	20.588	19.948	19.687	19.039	18.941	20.101
100.0	18.804	18.872	18.449	18.207	17.988	17.456	18.762
102.5	17.284	17.217	17.017	16.912	16.968	15.985	17.436
105.0	15.452	15.993	15.628	15.778	15.424	14.532	16.170
107.5	14.020	14.881	13.699	14.817	13.878	12.134	14.906
110.0	12.853	13.555	11.435	13.998	13.288	8.475	10.381
112.5	11.515	12.177	9.352	13.191	12.684	5.440	5.819
115.0	10.065	11.296	7.375	12.392	10.478	3.195	3.936
117.5	8.078	10.529	6.497	11.389	8.269	1.660	2.061
120.0	5.762	9.409	6.231	10.235	5.891	1.005	1.444
122.5	3.808	8.213	5.581	8.801	3.559	0.615	0.835
125.0	2.066	6.524	4.722	7.165	2.552	0.538	0.651
127.5	1.371	4.734	3.635	5.441	1.567	0.509	0.478
130.0	1.271	3.444	2.429	3.655	1.129	0.531	0.587
132.5	0.986	2.247	1.789	2.550	0.704	0.579	0.694
135.0	0.604	1.709	1.428	1.899	0.524	0.656	0.751
137.5	0.432	1.284	1.136	1.431	0.361	0.692	0.797
140.0	0.370	0.868	0.877	1.083	0.455	0.687	0.616
142.5	0.378	0.454	0.731	0.931	0.543	0.664	0.453
145.0	0.420	0.407	0.635	0.901	0.555	0.624	0.573
147.5	0.448	0.414	0.593	0.854	0.565	0.575	0.690
150.0	0.469	0.490	0.573	0.798	0.560	0.515	0.780
152.5	0.503	0.574	0.680	0.741	0.560	0.538	0.851
155.0	0.543	0.618	0.839	0.683	0.606	0.638	0.710
157.5	0.599	0.658	0.822	0.739	0.638	0.704	0.583
160.0	0.662	0.612	0.752	0.845	0.612	0.748	0.530
162.5	0.560	0.584	0.647	0.852	0.549	0.633	0.503
165.0	0.547	0.601	0.606	0.821	0.437	0.511	0.511
167.5	0.733	0.549	0.686	0.722	0.512	0.519	0.557
170.0	0.595	0.528	0.548	0.637	0.667	0.621	0.688
172.5	0.566	0.586	0.555	0.684	0.759	0.556	0.749
175.0	0.558	0.617	0.553	0.679	0.625	0.482	0.583
177.5	0.508	0.667	0.498	0.715	0.736	0.547	0.493
180.0	0.578	0.578	0.578	0.578	0.578	0.578	0.578

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Zone	Lumens	%Lamp	%Fixt
0-20	147.07	N.A.	19.70
0-30	300.20	N.A.	40.30
0-40	430.83	N.A.	57.80
0-60	556.79	N.A.	74.70
0-80	655.28	N.A.	87.90
0-90	691.16	N.A.	92.70
10-90	650.21	N.A.	87.20
20-40	283.76	N.A.	38.10
20-50	349.48	N.A.	46.90
40-70	178.03	N.A.	23.90
60-80	98.49	N.A.	13.20
70-80	46.42	N.A.	6.20
80-90	35.87	N.A.	4.80
90-110	41.23	N.A.	5.50
90-120	49.45	N.A.	6.60
90-130	52.42	N.A.	7.00
90-150	53.63	N.A.	7.20
90-180	54.13	N.A.	7.30
110-180	12.91	N.A.	1.70
0-180	745.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.95
10-20	106.12
20-30	153.13
30-40	130.63
40-50	65.73
50-60	60.24
60-70	52.06
70-80	46.42
80-90	35.87
90-100	24.59
100-110	16.64
110-120	8.23
120-130	2.97
130-140	0.84
140-150	0.37
150-160	0.28
160-170	0.17
170-180	0.06

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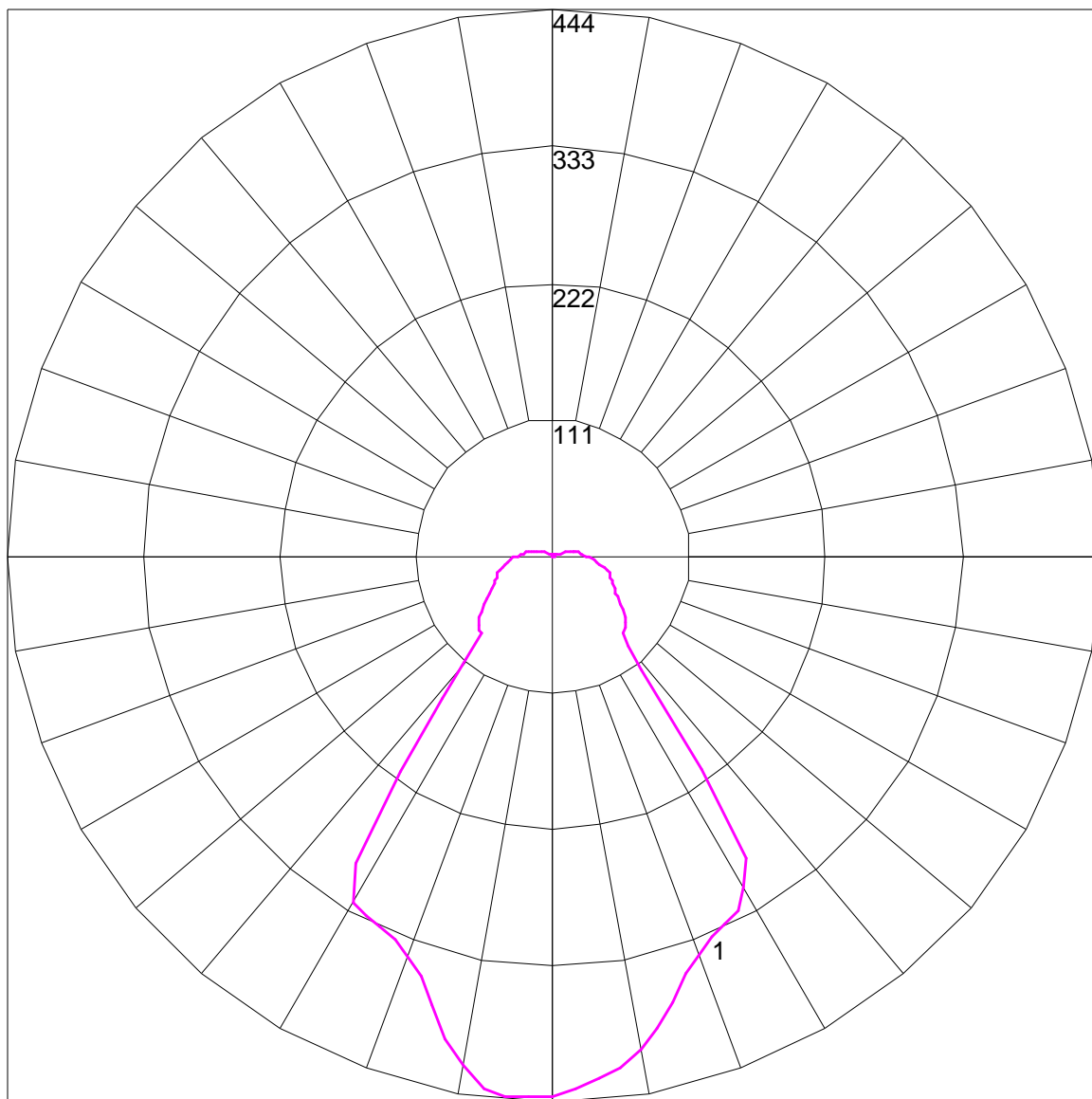
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	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-00660_1 ~ CP0608XT-10L35K-NSD-EX-FASAL-PT.IES

POLAR GRAPH



Maximum Candela = 443.744 Located At Horizontal Angle = 112.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)