

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

IESNA:LM-63-2002

[TEST] SP-00661_M-10L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 7/6/2018

[LUMCAT] CP0608XT-10L35K-CSD-EX-FASAL-PT

[LUMINAIRE] Nom 6" diam x 8.2" H, Carli Pendant decorative luminaire

[LAMPCAT] N/A

[LAMP] N/A, 19mm LES

[OTHER] Closed Spherical Diffuser at LED

[OTHER] Frosted Acrylic Upper Lens

[OTHER] Aluminum Shade

[OTHER] 78.3% Downlight

[OTHER] 21.7% 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	467
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.28
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 ~ CP0608XT-10L35K-CSD-EX-FASAL-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3665	3577	3758
55	2811	2780	2771
65	3260	3223	3079
75	3867	3915	3671
85	5264	5488	5076

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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	119.862	119.862	119.862	119.862	119.862	119.862	119.862	119.862	119.862	119.862
2.5	119.820	119.903	120.009	120.280	120.156	119.985	119.835	120.184	120.183	120.118
5.0	120.134	120.042	120.280	120.684	120.618	120.455	120.072	120.542	120.529	120.375
7.5	120.484	120.557	120.434	121.054	120.903	120.893	120.672	120.734	120.735	120.637
10.0	120.853	120.763	120.496	121.121	121.086	121.309	120.956	120.824	120.782	120.902
12.5	120.504	120.263	120.048	120.728	120.803	120.853	120.737	120.279	120.525	120.491
15.0	119.760	119.444	119.190	119.827	120.241	119.743	119.902	119.347	119.773	119.762
17.5	118.119	117.889	117.843	118.139	118.739	118.128	118.075	117.758	118.050	118.266
20.0	115.976	116.210	116.099	116.391	116.666	116.126	116.165	115.764	116.257	116.406
22.5	113.756	114.239	114.136	114.547	114.754	114.214	114.120	114.088	114.326	114.381
25.0	111.492	111.988	111.993	112.486	112.943	112.372	112.152	112.610	112.390	112.277
27.5	108.444	109.065	108.706	110.075	110.301	109.762	110.311	109.847	110.446	109.878
30.0	104.944	105.121	104.463	106.306	107.139	106.548	107.018	106.267	107.188	107.335
32.5	99.160	98.698	98.510	100.343	101.823	101.202	101.279	100.379	101.222	101.890
35.0	92.038	91.809	91.103	93.512	95.143	94.163	94.539	92.998	94.588	94.989
37.5	84.176	83.767	83.278	85.256	87.357	86.263	86.085	85.120	86.555	87.325
40.0	75.872	75.932	75.091	77.221	78.861	77.669	77.920	76.916	78.648	79.274
42.5	68.534	68.624	67.451	69.554	70.919	69.763	70.253	69.338	71.008	71.596
45.0	61.776	61.538	60.287	62.267	63.340	62.419	62.932	62.176	63.735	64.110
47.5	55.539	55.022	53.966	55.625	56.515	55.687	56.219	55.760	57.257	57.520
50.0	49.619	49.150	48.390	49.535	50.189	49.463	50.141	49.845	51.292	51.399
52.5	45.419	44.955	44.394	44.395	45.416	44.716	45.203	45.569	46.449	46.837
55.0	42.283	41.909	41.819	40.916	41.689	41.213	41.672	42.416	42.839	43.104
57.5	41.244	41.897	40.767	40.328	40.002	39.544	40.694	41.166	41.978	41.598
60.0	41.523	41.964	41.101	40.002	39.711	39.445	40.038	41.236	41.439	41.297
62.5	41.635	42.242	41.229	40.142	39.493	39.211	39.978	41.253	41.633	41.221
65.0	41.641	42.413	41.165	40.159	39.326	38.860	39.815	41.232	41.693	41.267
67.5	41.271	42.286	40.936	39.958	39.035	38.347	39.460	40.816	41.449	40.855
70.0	40.657	42.038	40.553	39.572	38.658	37.693	38.948	40.115	41.013	40.188
72.5	39.924	41.454	40.105	38.847	37.995	37.066	38.138	39.426	40.127	39.283
75.0	39.113	40.941	39.596	38.271	37.128	36.462	37.512	38.744	39.359	38.244
77.5	38.561	40.633	39.255	37.974	36.680	35.999	37.245	38.247	38.875	37.692
80.0	38.182	40.379	39.077	37.796	36.535	35.663	37.015	37.885	38.455	37.420
82.5	37.881	40.283	39.072	37.845	36.408	35.560	36.856	37.785	38.192	37.136
85.0	37.634	40.157	39.238	37.908	36.294	35.672	36.755	37.880	37.992	36.846
87.5	37.614	39.943	39.336	37.997	36.365	35.701	36.766	37.832	37.946	36.804
90.0	37.749	39.746	39.367	38.100	36.572	35.655	36.819	37.675	37.903	36.910
92.5	37.648	39.598	39.248	38.227	36.560	35.600	36.951	37.609	37.867	36.802
95.0	37.382	39.442	38.981	38.222	36.381	35.537	36.875	37.611	37.843	36.566
97.5	36.956	39.262	38.604	37.956	35.889	35.186	36.370	37.358	37.849	36.209
100.0	36.418	38.902	38.115	37.538	35.157	34.561	35.829	36.904	37.589	35.779
102.5	35.668	37.976	37.384	36.818	34.348	33.807	35.211	35.774	36.638	35.030
105.0	34.765	36.392	36.402	35.924	33.479	32.930	34.482	34.111	34.884	34.084
107.5	29.393	32.712	35.297	34.674	30.329	31.940	33.522	26.516	31.004	28.739
110.0	20.777	26.904	34.063	33.371	25.383	30.840	32.250	14.158	24.793	20.636
112.5	12.670	14.179	31.717	31.956	20.466	29.607	30.306	6.592	12.324	12.644
115.0	4.937	4.019	28.191	30.481	15.573	28.240	26.234	2.918	2.881	4.724
117.5	1.339	2.330	21.477	28.877	12.425	26.567	17.501	1.061	1.727	1.341
120.0	0.840	0.959	11.327	26.750	10.690	24.586	9.918	0.706	0.807	0.886
122.5	0.548	0.659	4.810	23.505	9.115	20.143	4.904	0.503	0.538	0.604
125.0	0.413	0.423	2.250	18.588	7.670	13.176	1.315	0.428	0.333	0.435

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CANDELA TABULATION - (Cont.)

127.5	0.368	0.412	0.793	10.049	5.583	7.635	0.952	0.373	0.311	0.377
130.0	0.392	0.399	0.558	3.692	2.960	3.574	0.648	0.333	0.297	0.392
132.5	0.389	0.375	0.414	2.144	1.458	1.268	0.479	0.333	0.307	0.405
135.0	0.364	0.367	0.372	0.993	0.902	0.810	0.359	0.367	0.315	0.417
137.5	0.349	0.410	0.368	0.733	0.591	0.524	0.357	0.371	0.312	0.400
140.0	0.340	0.432	0.408	0.514	0.491	0.424	0.352	0.348	0.311	0.363
142.5	0.322	0.373	0.416	0.390	0.417	0.350	0.341	0.359	0.313	0.342
145.0	0.296	0.337	0.386	0.322	0.366	0.305	0.340	0.399	0.309	0.332
147.5	0.318	0.388	0.366	0.381	0.325	0.286	0.363	0.369	0.290	0.339
150.0	0.381	0.427	0.357	0.410	0.294	0.296	0.372	0.276	0.278	0.356
152.5	0.391	0.421	0.351	0.368	0.287	0.302	0.350	0.259	0.289	0.363
155.0	0.358	0.408	0.352	0.349	0.301	0.303	0.337	0.314	0.304	0.362
157.5	0.331	0.367	0.368	0.389	0.317	0.319	0.344	0.311	0.337	0.361
160.0	0.311	0.344	0.403	0.404	0.336	0.352	0.353	0.256	0.358	0.361
162.5	0.289	0.390	0.415	0.357	0.351	0.354	0.366	0.255	0.340	0.359
165.0	0.266	0.423	0.401	0.325	0.363	0.319	0.359	0.304	0.330	0.357
167.5	0.279	0.405	0.395	0.331	0.356	0.296	0.298	0.311	0.345	0.333
170.0	0.322	0.378	0.397	0.342	0.331	0.286	0.266	0.276	0.351	0.294
172.5	0.340	0.321	0.414	0.361	0.332	0.292	0.311	0.269	0.328	0.324
175.0	0.336	0.297	0.447	0.376	0.359	0.319	0.331	0.290	0.327	0.408
177.5	0.342	0.419	0.424	0.379	0.329	0.331	0.283	0.323	0.404	0.414
180.0	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369

Vert. 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	119.862	119.862	119.862	119.862	119.862	119.862	119.862
2.5	119.913	119.870	120.185	119.857	119.902	119.891	119.820
5.0	120.172	120.189	120.332	119.972	120.023	120.024	120.134
7.5	120.718	120.457	120.323	120.106	120.320	120.469	120.484
10.0	121.010	120.691	120.289	120.159	120.733	120.718	120.853
12.5	120.968	120.314	120.207	120.099	120.516	120.625	120.504
15.0	120.283	119.513	119.520	119.367	119.880	119.974	119.760
17.5	118.739	117.948	117.744	117.674	118.243	118.334	118.119
20.0	116.916	115.845	115.893	115.871	115.929	116.426	115.976
22.5	114.712	113.973	113.901	113.907	113.684	114.036	113.756
25.0	112.718	112.265	111.696	111.678	111.488	111.637	111.492
27.5	111.011	109.594	109.096	109.062	108.475	109.222	108.444
30.0	107.788	106.224	105.208	105.235	104.892	105.665	104.944
32.5	102.446	100.644	98.899	99.606	99.360	99.991	99.160
35.0	96.016	93.435	92.023	92.996	92.454	93.580	92.038
37.5	88.050	85.708	84.059	84.904	84.969	85.788	84.176
40.0	80.122	77.596	76.318	77.103	77.069	78.009	75.872
42.5	72.250	69.896	69.011	69.752	69.548	70.258	68.534
45.0	64.831	62.510	62.010	62.694	62.302	62.955	61.776
47.5	58.076	55.928	55.615	56.092	55.913	56.516	55.539
50.0	51.956	49.965	49.952	50.357	50.158	50.710	49.619
52.5	46.773	45.512	45.757	45.993	45.962	46.145	45.419
55.0	43.002	42.236	42.818	42.929	42.931	42.736	42.283
57.5	41.350	40.800	42.442	41.954	41.619	41.639	41.244
60.0	40.321	40.821	42.302	41.445	41.611	40.986	41.523
62.5	40.241	40.724	42.653	41.694	41.391	41.239	41.635
65.0	39.982	40.534	42.767	41.708	41.008	41.328	41.641

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CANDELA TABULATION - (Cont.)

67.5	39.446	40.120	42.384	41.334	40.484	41.080	41.271
70.0	38.770	39.524	41.894	40.958	39.850	40.538	40.657
72.5	37.878	38.891	41.175	40.581	39.356	39.377	39.924
75.0	37.054	38.229	40.533	40.235	38.974	38.341	39.113
77.5	36.341	37.780	40.060	39.945	38.612	37.570	38.561
80.0	35.853	37.510	39.686	39.716	38.265	36.989	38.182
82.5	35.724	37.535	39.534	39.593	38.197	36.823	37.881
85.0	35.625	37.810	39.468	39.599	38.356	36.673	37.634
87.5	35.574	37.994	39.594	39.830	38.405	36.561	37.614
90.0	35.525	38.100	39.717	39.981	38.361	36.406	37.749
92.5	35.479	38.002	39.833	39.991	38.292	36.152	37.648
95.0	35.371	37.726	39.758	39.781	38.200	35.913	37.382
97.5	35.156	37.370	39.242	39.171	37.925	35.709	36.956
100.0	34.821	36.943	38.599	38.523	37.495	35.348	36.418
102.5	34.280	36.323	37.659	37.802	36.730	34.630	35.668
105.0	33.531	35.529	36.084	36.933	35.676	31.845	34.765
107.5	32.419	34.463	32.985	35.787	34.434	24.210	29.393
110.0	31.067	33.150	28.248	34.500	33.029	16.402	20.777
112.5	29.290	31.778	19.507	32.948	30.710	8.179	12.670
115.0	25.899	30.353	13.107	31.413	27.581	2.126	4.937
117.5	19.611	28.638	12.546	29.910	20.769	1.363	1.339
120.0	13.134	26.653	11.811	27.815	10.651	0.769	0.840
122.5	6.311	22.397	10.637	24.563	4.569	0.594	0.548
125.0	1.654	15.992	8.925	19.350	2.169	0.461	0.413
127.5	1.000	10.012	5.824	10.244	0.874	0.428	0.368
130.0	0.534	4.442	3.207	3.616	0.602	0.403	0.392
132.5	0.424	1.441	1.850	1.999	0.469	0.400	0.389
135.0	0.351	0.951	0.815	0.859	0.467	0.393	0.364
137.5	0.349	0.630	0.635	0.699	0.419	0.379	0.349
140.0	0.366	0.476	0.484	0.562	0.330	0.383	0.340
142.5	0.419	0.392	0.408	0.475	0.315	0.429	0.322
145.0	0.437	0.378	0.346	0.395	0.373	0.441	0.296
147.5	0.387	0.379	0.325	0.331	0.372	0.358	0.318
150.0	0.362	0.394	0.320	0.298	0.314	0.309	0.381
152.5	0.386	0.394	0.362	0.333	0.301	0.356	0.391
155.0	0.398	0.379	0.392	0.358	0.333	0.383	0.358
157.5	0.386	0.374	0.389	0.358	0.351	0.355	0.331
160.0	0.358	0.380	0.373	0.365	0.354	0.341	0.311
162.5	0.296	0.374	0.321	0.385	0.344	0.365	0.289
165.0	0.275	0.354	0.291	0.382	0.319	0.380	0.266
167.5	0.337	0.345	0.328	0.325	0.305	0.368	0.279
170.0	0.369	0.346	0.352	0.288	0.301	0.364	0.322
172.5	0.337	0.339	0.341	0.295	0.314	0.383	0.340
175.0	0.332	0.323	0.337	0.298	0.345	0.396	0.336
177.5	0.386	0.323	0.359	0.293	0.336	0.388	0.342
180.0	0.369	0.369	0.369	0.369	0.369	0.369	0.369

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Zone	Lumens	%Lamp	%Fixt
0-20	45.22	N.A.	9.70
0-30	96.82	N.A.	20.80
0-40	154.75	N.A.	33.20
0-60	242.40	N.A.	52.00
0-80	323.89	N.A.	69.40
0-90	365.12	N.A.	78.30
10-90	353.62	N.A.	75.80
20-40	109.53	N.A.	23.50
20-50	158.10	N.A.	33.90
40-70	128.10	N.A.	27.50
60-80	81.49	N.A.	17.50
70-80	41.04	N.A.	8.80
80-90	41.22	N.A.	8.80
90-110	76.55	N.A.	16.40
90-120	94.80	N.A.	20.30
90-130	100.29	N.A.	21.50
90-150	101.10	N.A.	21.70
90-180	101.39	N.A.	21.70
110-180	24.84	N.A.	5.30
0-180	466.50	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	11.50
10-20	33.72
20-30	51.60
30-40	57.93
40-50	48.57
50-60	39.08
60-70	40.45
70-80	41.04
80-90	41.22
90-100	40.89
100-110	35.67
110-120	18.25
120-130	5.49
130-140	0.58
140-150	0.23
150-160	0.16
160-170	0.10
170-180	0.03

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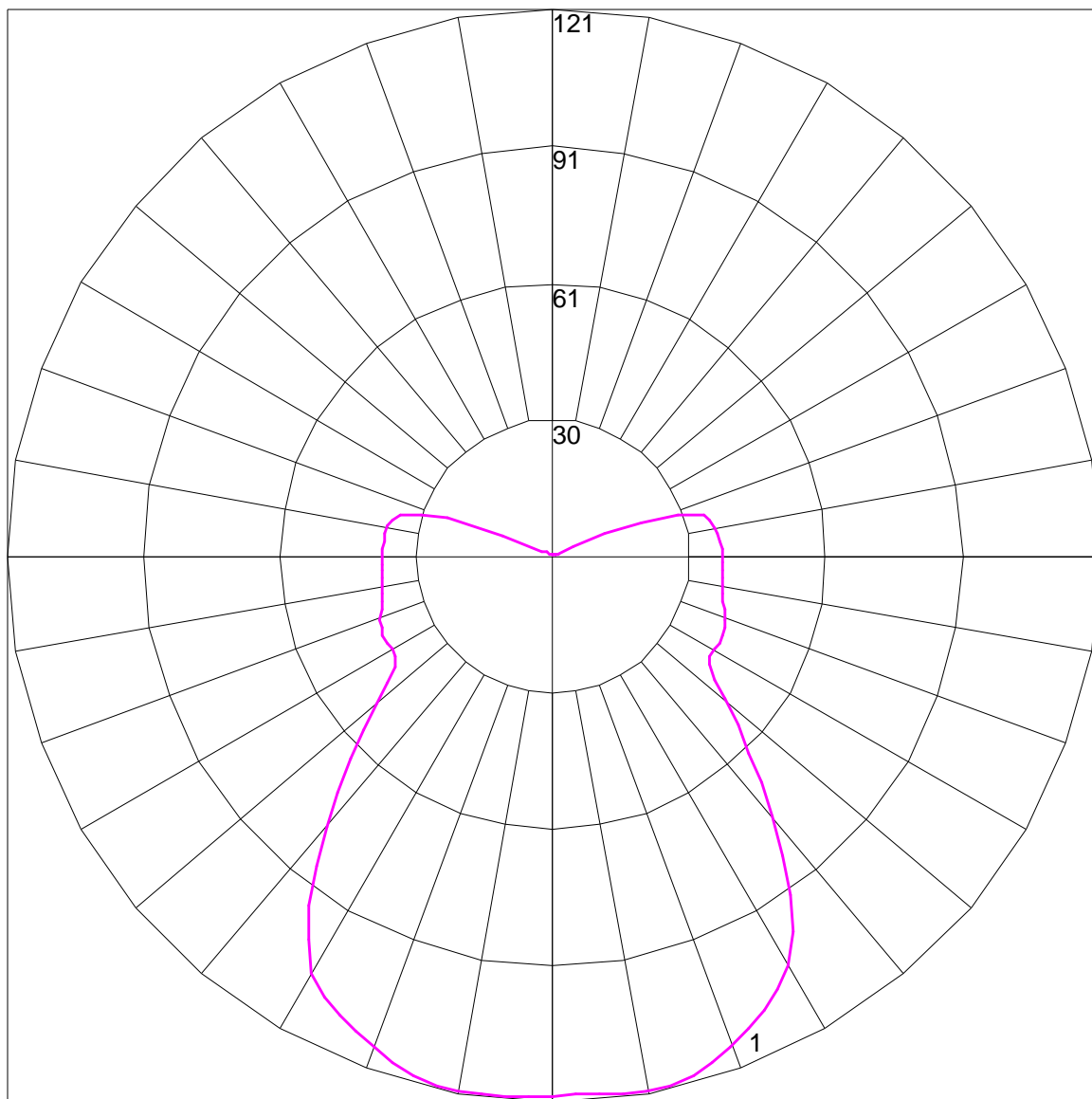
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	89	85	96	90	85	81	82	78	75	74	71	68	67	65	63	59
2	91	82	74	68	86	78	71	65	71	65	60	64	60	56	58	55	51	48
3	83	72	63	56	78	68	60	54	62	56	50	57	51	47	51	47	43	40
4	76	63	54	47	72	61	52	46	55	48	43	51	45	40	46	41	37	34
5	70	57	48	41	66	54	46	40	50	43	37	46	40	35	42	37	33	30
6	65	51	42	36	61	49	41	35	45	38	33	41	35	31	38	33	29	26
7	60	47	38	32	57	45	37	31	41	34	29	38	32	28	35	30	26	24
8	56	43	34	28	53	41	33	28	38	31	26	35	29	25	32	27	23	21
9	52	39	31	26	50	38	30	25	35	28	24	32	27	22	30	25	21	19
10	49	36	28	23	47	35	27	23	32	26	21	30	24	20	28	23	19	17

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POLAR GRAPH



Maximum Candela = 121.309 Located At Horizontal Angle = 112.5, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180)