

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00660_2 ~ CP0608XT-10L35K-OSD-EX-FASAL-PT.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00661_2_M-10L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 7/9/2018

[LUMCAT] CP0608XT-10L35K-OSD-EX-FASAL-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 Upper Lens

[OTHER] Aluminum Shade

[OTHER] 83.1% Downlight

[OTHER] 16.9% 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	507
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
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_2 ~ CP0608XT-10L35K-OSD-EX-FASAL-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3563	3464	3635
55	2564	2435	2502
65	2957	2885	2692
75	3326	3388	3184
85	4598	4519	4262

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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	400.305	400.305	400.305	400.305	400.305	400.305	400.305	400.305	400.305	400.305
2.5	399.612	401.214	399.074	400.600	399.522	399.828	400.909	399.119	400.759	399.658
5.0	398.503	395.581	396.368	395.016	398.035	395.320	395.384	399.280	397.545	398.020
7.5	382.524	388.527	381.341	384.700	381.351	381.751	385.714	385.373	390.149	389.687
10.0	358.011	356.237	351.284	356.075	353.265	349.142	358.646	361.215	368.329	364.714
12.5	317.822	319.842	312.507	316.975	314.787	312.036	321.156	323.815	332.741	332.830
15.0	270.483	273.110	265.074	273.263	269.918	267.164	278.086	278.391	289.774	286.986
17.5	224.559	225.374	220.226	227.420	226.665	223.674	232.262	232.730	240.911	240.900
20.0	179.146	183.896	177.526	187.005	184.219	182.108	191.220	186.953	197.108	194.423
22.5	147.594	142.847	145.414	148.544	151.553	148.531	152.028	153.475	156.578	156.161
25.0	119.898	124.602	120.439	126.583	122.722	123.984	128.686	124.734	130.840	128.775
27.5	109.053	107.140	107.796	109.288	110.928	109.645	110.015	111.939	112.771	111.210
30.0	101.569	102.276	101.828	103.115	104.336	104.971	103.602	103.914	103.911	104.363
32.5	95.596	97.134	95.322	99.205	98.485	99.341	99.941	97.644	98.942	98.202
35.0	89.834	89.642	88.577	91.604	92.805	92.977	92.645	91.755	92.093	92.649
37.5	82.256	82.185	81.206	83.511	85.215	85.669	84.796	83.798	84.631	85.320
40.0	74.540	74.914	73.620	75.595	77.329	77.766	76.994	75.529	77.056	76.674
42.5	67.282	67.705	66.006	67.692	69.304	69.566	69.196	67.653	69.452	68.973
45.0	60.054	60.739	58.385	60.412	61.265	61.212	61.918	59.814	62.272	61.840
47.5	53.588	53.941	52.266	53.168	54.931	54.495	54.679	54.200	55.167	55.378
50.0	47.266	47.653	46.432	46.729	48.674	48.441	48.737	48.664	48.971	49.238
52.5	42.681	42.376	41.477	40.547	43.034	43.046	42.945	43.353	42.874	43.888
55.0	38.572	39.445	36.628	37.602	37.637	37.860	39.527	38.358	40.543	38.845
57.5	37.825	37.661	36.298	35.094	36.310	36.398	36.457	37.996	38.414	37.718
60.0	37.273	37.983	36.278	35.656	35.087	35.824	36.191	37.676	38.106	37.748
62.5	37.659	38.136	36.577	36.035	34.735	35.444	35.995	37.673	37.787	37.234
65.0	37.775	38.031	36.845	35.510	34.379	35.096	36.162	37.559	37.116	36.603
67.5	36.954	37.703	36.224	34.988	33.998	34.460	36.006	36.861	36.414	35.892
70.0	36.019	37.100	35.599	34.480	33.565	33.793	34.605	36.079	35.416	35.169
72.5	34.771	36.385	34.935	33.954	32.921	33.028	33.428	34.989	34.476	34.617
75.0	33.641	35.557	34.273	33.376	32.206	32.258	32.899	34.001	33.884	34.081
77.5	32.760	35.011	33.618	32.891	31.285	31.426	32.179	33.305	33.338	33.097
80.0	32.356	34.700	33.001	32.605	30.629	30.639	31.028	32.824	32.980	32.106
82.5	32.765	34.404	32.556	32.317	30.585	30.702	30.447	32.830	32.682	31.662
85.0	32.871	34.116	32.309	32.026	30.469	30.776	30.909	32.506	32.575	31.252
87.5	32.551	33.854	32.724	31.842	30.219	30.955	31.170	31.588	32.453	31.324
90.0	32.320	33.606	33.075	31.808	29.960	31.068	31.133	31.073	32.298	31.351
92.5	32.192	33.416	33.263	31.777	29.690	30.803	30.983	31.148	32.169	31.004
95.0	31.690	33.251	33.190	31.748	29.578	30.387	30.698	31.174	32.094	30.678
97.5	30.834	32.733	32.586	31.514	29.664	29.357	30.346	31.140	31.686	30.458
100.0	30.346	32.093	31.901	31.087	29.597	28.508	29.928	31.089	30.749	30.211
102.5	30.145	31.566	31.084	30.462	29.375	28.207	29.586	31.020	30.036	29.864
105.0	29.025	31.071	30.259	29.683	28.385	27.893	29.308	27.658	29.610	28.652
107.5	27.323	27.204	29.423	28.776	26.764	27.547	28.285	21.588	25.504	24.943
110.0	19.553	22.685	28.415	27.788	21.997	26.751	26.755	14.076	17.501	19.264
112.5	8.665	13.089	27.212	26.696	15.073	25.097	24.552	5.603	10.464	9.173
115.0	3.921	2.858	23.299	25.552	11.478	23.617	21.983	2.044	4.274	2.414
117.5	1.705	1.498	16.919	24.443	9.720	22.404	15.122	1.116	1.380	1.676
120.0	0.924	0.774	10.614	23.351	8.757	20.143	6.408	0.745	0.830	1.110
122.5	0.598	0.679	4.363	19.568	8.149	16.545	2.976	0.619	0.545	0.797
125.0	0.499	0.596	1.564	14.921	6.388	11.872	1.373	0.627	0.416	0.607

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CANDELA TABULATION - (Cont.)

127.5	0.456	0.558	0.889	9.181	4.222	6.086	0.896	0.682	0.393	0.565
130.0	0.423	0.527	0.651	3.182	2.579	2.728	0.710	0.591	0.419	0.491
132.5	0.391	0.589	0.627	1.704	1.073	1.417	0.547	0.462	0.501	0.384
135.0	0.338	0.648	0.573	1.007	0.894	0.779	0.387	0.412	0.603	0.344
137.5	0.283	0.681	0.507	0.774	0.976	0.614	0.496	0.378	0.572	0.358
140.0	0.365	0.687	0.551	0.591	0.643	0.457	0.638	0.351	0.503	0.350
142.5	0.454	0.563	0.629	0.481	0.258	0.305	0.548	0.326	0.455	0.327
145.0	0.441	0.474	0.711	0.375	0.273	0.406	0.442	0.469	0.412	0.378
147.5	0.429	0.507	0.793	0.552	0.315	0.622	0.452	0.622	0.406	0.469
150.0	0.396	0.501	0.672	0.717	0.408	0.608	0.461	0.517	0.405	0.590
152.5	0.387	0.391	0.520	0.659	0.501	0.510	0.442	0.418	0.419	0.723
155.0	0.598	0.321	0.447	0.592	0.547	0.523	0.421	0.535	0.435	0.631
157.5	0.736	0.331	0.387	0.460	0.582	0.565	0.386	0.627	0.582	0.464
160.0	0.591	0.349	0.534	0.417	0.544	0.509	0.354	0.565	0.683	0.464
162.5	0.460	0.375	0.629	0.598	0.520	0.463	0.326	0.551	0.561	0.492
165.0	0.349	0.551	0.603	0.577	0.517	0.505	0.433	0.606	0.502	0.538
167.5	0.432	0.662	0.564	0.475	0.388	0.556	0.574	0.700	0.501	0.521
170.0	0.465	0.568	0.556	0.552	0.408	0.551	0.460	0.563	0.526	0.481
172.5	0.446	0.394	0.548	0.576	0.503	0.428	0.522	0.367	0.658	0.487
175.0	0.504	0.422	0.428	0.517	0.374	0.469	0.455	0.519	0.679	0.593
177.5	0.427	0.466	0.479	0.493	0.524	0.494	0.559	0.414	0.507	0.578
180.0	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482	0.482

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	400.305	400.305	400.305	400.305	400.305	400.305	400.305
2.5	400.237	399.061	400.155	401.509	400.343	400.548	399.612
5.0	397.447	399.632	396.427	398.128	399.338	396.741	398.503
7.5	393.098	388.054	389.404	393.698	386.256	388.485	382.524
10.0	369.117	364.844	365.961	366.928	362.094	363.392	358.011
12.5	336.582	329.624	330.412	335.404	326.592	325.522	317.822
15.0	293.694	284.916	288.593	292.600	282.637	281.852	270.483
17.5	247.250	240.472	243.043	248.198	237.864	234.625	224.559
20.0	203.497	196.197	201.196	205.365	192.591	192.359	179.146
22.5	160.451	159.793	161.162	162.661	156.689	152.564	147.594
25.0	134.549	127.549	134.093	135.996	125.432	128.335	119.898
27.5	111.830	111.648	112.000	110.247	111.194	110.297	109.053
30.0	104.669	102.562	102.383	103.582	103.579	102.559	101.569
32.5	99.476	95.722	96.482	96.877	96.460	97.952	95.596
35.0	92.268	89.602	89.370	89.623	89.496	91.223	89.834
37.5	84.930	81.684	81.988	82.359	81.872	84.000	82.256
40.0	76.721	73.321	74.616	75.028	74.099	76.027	74.540
42.5	68.560	66.247	67.245	67.772	66.991	67.934	67.282
45.0	61.944	59.396	60.638	60.887	59.984	61.662	60.054
47.5	55.370	53.364	54.100	54.205	53.895	55.562	53.588
50.0	49.241	47.422	47.792	48.271	47.895	49.387	47.266
52.5	43.426	42.754	41.566	43.303	43.199	43.240	42.681
55.0	39.641	38.156	39.791	41.010	38.596	40.361	38.572
57.5	36.521	37.882	38.130	39.307	38.153	37.645	37.825
60.0	36.404	37.599	38.223	38.902	37.722	37.628	37.273
62.5	36.152	37.077	38.300	38.451	37.508	37.590	37.659
65.0	35.463	36.533	38.252	37.923	37.206	37.382	37.775

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67.5	34.673	35.788	38.025	37.377	36.187	37.021	36.954
70.0	33.627	35.011	36.882	36.806	35.245	35.829	36.019
72.5	32.636	34.046	35.849	36.071	34.715	34.655	34.771
75.0	31.758	33.105	35.233	35.145	34.259	33.546	33.641
77.5	30.896	32.271	34.671	34.462	34.085	32.537	32.760
80.0	30.062	31.627	34.267	34.014	33.825	31.821	32.356
82.5	29.803	31.579	33.886	34.040	33.320	31.312	32.765
85.0	30.323	31.608	33.559	34.439	33.033	31.277	32.871
87.5	30.421	31.826	33.451	34.396	33.257	31.273	32.551
90.0	30.053	32.016	33.742	34.063	33.196	31.327	32.320
92.5	29.779	32.153	33.834	33.756	32.610	30.979	32.192
95.0	29.587	32.086	33.636	33.464	32.339	30.025	31.690
97.5	29.359	31.698	33.162	33.361	32.534	29.625	30.834
100.0	29.102	31.172	32.352	33.335	32.063	29.902	30.346
102.5	28.491	30.469	31.635	32.835	30.771	29.283	30.145
105.0	27.665	29.522	31.012	32.176	29.785	27.748	29.025
107.5	26.617	28.316	27.381	31.129	29.106	21.563	27.323
110.0	25.460	27.270	21.320	29.986	28.027	11.512	19.553
112.5	23.846	26.364	16.360	28.406	26.617	5.684	8.665
115.0	22.051	25.464	12.142	26.748	22.744	2.746	3.921
117.5	16.342	24.568	10.394	25.477	17.190	1.437	1.705
120.0	9.460	22.617	9.985	24.250	10.703	1.038	0.924
122.5	5.221	20.051	8.911	20.947	3.705	0.782	0.598
125.0	1.572	14.288	7.548	17.531	1.294	0.589	0.499
127.5	0.894	7.041	5.279	9.990	0.909	0.499	0.456
130.0	0.679	3.726	2.699	2.731	0.730	0.446	0.423
132.5	0.511	1.885	1.644	2.119	0.623	0.428	0.391
135.0	0.348	1.171	0.980	1.531	0.566	0.420	0.338
137.5	0.470	0.777	0.731	1.185	0.521	0.524	0.283
140.0	0.602	0.556	0.559	0.865	0.584	0.648	0.365
142.5	0.584	0.370	0.482	0.709	0.669	0.598	0.454
145.0	0.563	0.456	0.416	0.568	0.569	0.525	0.441
147.5	0.491	0.581	0.464	0.489	0.447	0.477	0.429
150.0	0.432	0.511	0.517	0.453	0.459	0.430	0.396
152.5	0.472	0.426	0.610	0.555	0.480	0.441	0.387
155.0	0.496	0.439	0.691	0.592	0.482	0.450	0.598
157.5	0.444	0.454	0.545	0.470	0.484	0.410	0.736
160.0	0.437	0.464	0.473	0.467	0.497	0.392	0.591
162.5	0.519	0.461	0.650	0.605	0.538	0.447	0.460
165.0	0.452	0.433	0.589	0.658	0.627	0.484	0.349
167.5	0.372	0.435	0.377	0.623	0.488	0.493	0.432
170.0	0.513	0.414	0.296	0.435	0.488	0.385	0.465
172.5	0.453	0.451	0.410	0.465	0.594	0.451	0.446
175.0	0.326	0.652	0.319	0.314	0.429	0.595	0.504
177.5	0.581	0.522	0.438	0.590	0.459	0.498	0.427
180.0	0.482	0.482	0.482	0.482	0.482	0.482	0.482

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Zone	Lumens	%Lamp	%Fixt
0-20	113.26	N.A.	22.30
0-30	174.38	N.A.	34.40
0-40	230.83	N.A.	45.50
0-60	314.13	N.A.	62.00
0-80	386.08	N.A.	76.20
0-90	421.16	N.A.	83.10
10-90	384.33	N.A.	75.80
20-40	117.57	N.A.	23.20
20-50	164.70	N.A.	32.50
40-70	119.55	N.A.	23.60
60-80	71.96	N.A.	14.20
70-80	35.70	N.A.	7.00
80-90	35.08	N.A.	6.90
90-110	64.46	N.A.	12.70
90-120	79.71	N.A.	15.70
90-130	84.43	N.A.	16.70
90-150	85.38	N.A.	16.80
90-180	85.81	N.A.	16.90
110-180	21.34	N.A.	4.20
0-180	506.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.83
10-20	76.43
20-30	61.12
30-40	56.45
40-50	47.13
50-60	36.17
60-70	36.26
70-80	35.70
80-90	35.08
90-100	34.40
100-110	30.06
110-120	15.25
120-130	4.73
130-140	0.64
140-150	0.31
150-160	0.23
160-170	0.14
170-180	0.05

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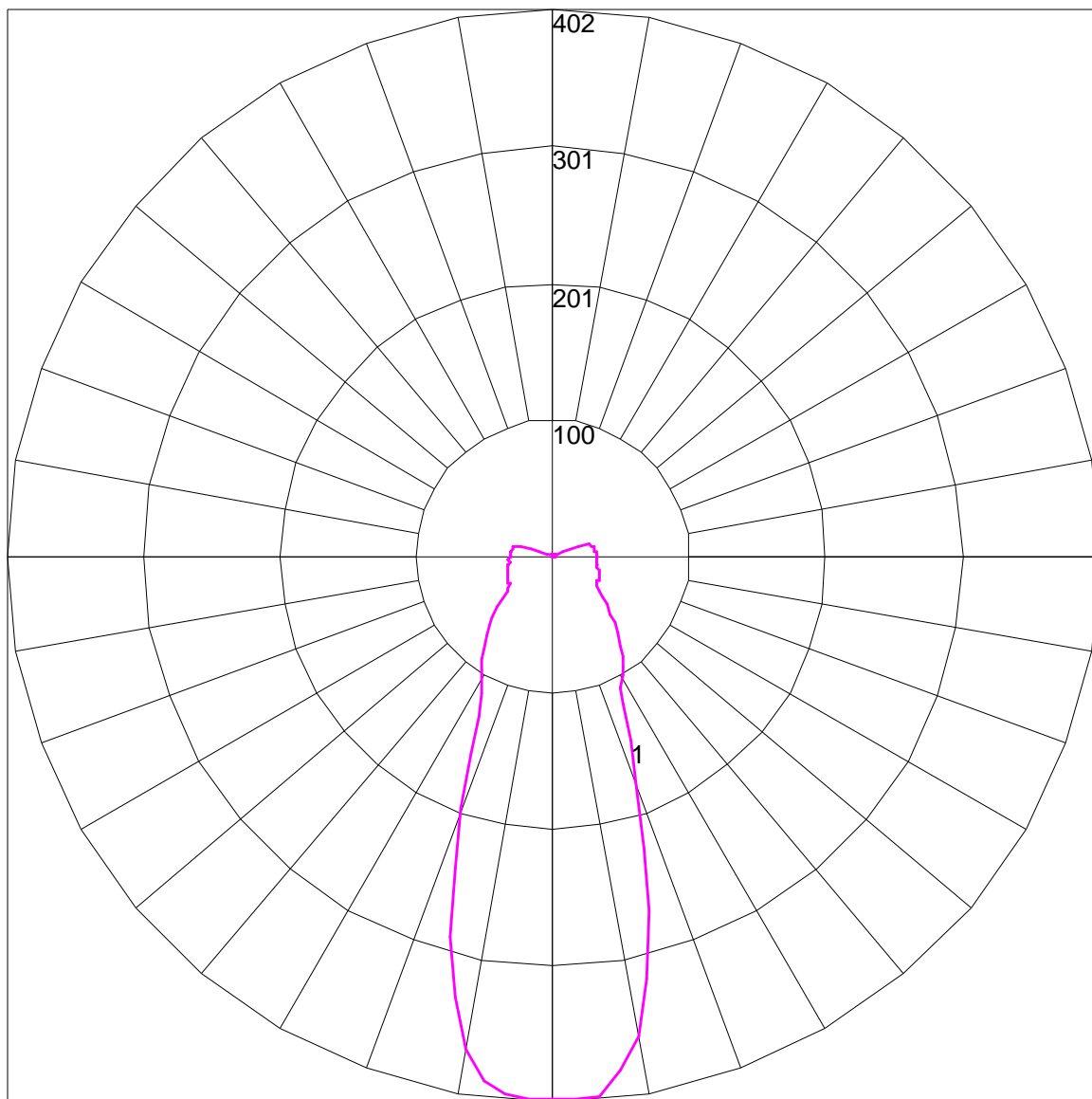
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	86	86	83
1	104	98	94	90	99	95	90	87	87	84	81	80	78	75	74	72	70	67
2	95	87	80	74	91	83	77	72	77	72	68	71	67	64	66	63	60	57
3	88	78	70	64	84	75	68	62	69	64	59	65	60	56	60	56	53	50
4	81	70	62	56	78	68	60	54	63	57	52	59	54	50	55	51	47	45
5	76	64	56	50	73	62	54	49	58	52	47	54	49	45	51	46	43	40
6	71	59	51	45	68	57	49	44	54	47	42	50	45	41	47	43	39	37
7	67	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34
8	63	50	43	37	60	49	42	37	46	40	36	44	38	35	42	37	33	31
9	59	47	40	35	57	46	39	34	44	37	33	41	36	32	39	35	31	29
10	56	44	37	32	54	43	36	32	41	35	31	39	34	30	37	33	29	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660_2 ~ CP0608XT-10L35K-OSD-EX-FASAL-PT.IES

POLAR GRAPH



Maximum Candela = 401.509 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)