

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00662_2 ~ CP0608XT-10L35K-OSD-EX-NLSAL-PT.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00662_2_M-10L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/9/2018
 [UPDATE] 10/31/2018
 [LUMCAT] CP0608XT-10L35K-OSD-EX-NLSAL-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] No Upper Lens
 [OTHER] Aluminum Shade
 [OTHER] 80.9% Downlight
 [OTHER] 19.1% 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	374
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
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)	0.64
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-00662_2 ~ CP0608XT-10L35K-OSD-EX-NLSAL-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1969	1927	2076
55	609	494	576
65	860	866	761
75	1661	1658	1535
85	3041	3253	2942

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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	399.387	399.387	399.387	399.387	399.387	399.387	399.387	399.387	399.387	399.387
2.5	399.951	399.108	399.772	400.372	400.573	399.412	399.295	400.234	399.194	400.119
5.0	393.689	399.333	398.544	401.404	397.438	395.200	399.801	396.248	399.384	400.002
7.5	381.143	380.652	379.103	383.109	381.923	379.380	385.509	385.510	388.587	385.429
10.0	353.018	361.227	357.191	361.887	359.766	355.315	362.549	362.836	367.753	367.995
12.5	311.943	315.999	311.915	319.968	317.740	313.358	325.338	324.388	333.655	326.534
15.0	265.521	270.421	266.429	275.401	274.554	270.125	280.411	280.900	288.609	284.040
17.5	215.028	222.492	219.381	229.285	228.207	224.424	234.638	231.403	241.254	234.279
20.0	172.307	175.001	174.154	183.019	184.439	181.430	188.457	186.479	192.128	186.420
22.5	135.001	141.317	139.881	148.057	146.865	143.124	151.475	146.629	153.136	149.363
25.0	111.726	108.916	109.393	113.853	116.511	113.848	118.448	118.275	121.152	116.379
27.5	97.247	98.136	98.683	101.576	101.813	99.052	101.588	101.444	102.926	103.078
30.0	87.792	87.570	88.477	90.330	89.783	87.373	91.099	89.942	93.260	91.160
32.5	81.252	79.548	80.475	82.310	82.996	80.191	82.516	83.338	84.672	85.021
35.0	72.308	71.353	71.982	74.349	74.928	71.876	74.594	74.887	76.704	77.875
37.5	62.115	61.592	61.653	63.715	64.605	62.067	64.933	64.878	67.347	67.123
40.0	52.045	51.891	51.471	53.100	54.387	52.226	54.738	54.811	57.276	56.449
42.5	42.032	42.608	41.778	43.277	44.336	42.348	44.684	44.699	47.055	46.018
45.0	33.182	33.511	32.479	33.560	34.999	33.173	34.669	35.527	36.765	36.215
47.5	24.828	25.539	24.329	25.899	26.708	24.768	26.434	27.008	28.391	28.177
50.0	17.954	17.986	16.886	18.327	19.236	17.532	18.612	19.658	20.828	20.478
52.5	11.638	12.509	11.294	12.016	12.847	11.468	13.216	13.052	14.889	13.619
55.0	9.166	8.021	7.432	6.317	8.668	8.036	8.306	9.878	9.556	8.526
57.5	7.988	7.657	7.649	6.646	7.200	7.023	7.554	8.662	8.182	7.459
60.0	8.587	7.657	8.251	7.129	6.994	7.176	7.509	9.017	8.129	7.249
62.5	9.717	9.021	9.662	8.777	8.185	8.296	8.598	10.200	9.828	8.776
65.0	10.982	10.502	11.057	10.367	9.726	9.468	9.843	11.933	12.046	10.186
67.5	12.282	12.358	12.423	11.592	11.617	10.679	11.397	13.926	13.662	11.382
70.0	13.911	14.239	13.830	12.860	13.139	12.039	12.986	15.674	15.125	12.633
72.5	15.614	16.187	15.312	14.356	14.318	13.503	14.820	17.319	16.425	13.976
75.0	16.805	17.959	16.771	15.840	15.523	15.017	16.675	18.652	17.688	15.465
77.5	17.898	19.275	18.197	17.277	16.749	16.563	18.203	19.867	19.224	17.174
80.0	19.093	20.656	19.815	18.749	18.164	18.016	19.714	21.271	20.813	18.580
82.5	20.305	22.181	21.712	20.356	19.725	19.414	20.584	22.738	21.876	19.567
85.0	21.743	23.406	23.256	21.869	21.033	20.858	21.432	24.149	22.857	20.736
87.5	23.211	24.009	24.344	23.069	22.164	22.327	23.133	25.544	24.223	22.134
90.0	24.273	24.755	25.222	24.323	23.318	23.178	24.832	26.394	25.640	23.373
92.5	25.294	25.767	25.852	25.736	24.487	23.740	25.848	27.101	26.409	24.433
95.0	25.396	26.505	26.540	26.712	25.127	24.265	26.833	27.674	27.114	25.020
97.5	25.433	26.784	27.291	26.524	25.455	24.775	26.948	28.218	26.859	25.104
100.0	25.270	26.974	27.376	26.266	25.246	24.980	27.022	27.999	26.534	24.977
102.5	25.096	27.025	26.807	25.844	24.755	25.069	26.478	27.635	26.902	24.649
105.0	24.546	26.255	26.312	25.388	24.270	24.611	25.952	23.972	27.305	23.375
107.5	23.986	24.338	25.882	24.857	23.787	23.969	25.637	19.774	22.575	21.283
110.0	13.855	18.717	25.195	24.318	18.947	23.203	25.148	11.139	17.727	15.232
112.5	3.860	8.426	24.295	23.764	12.226	22.401	23.164	1.933	9.255	5.996
115.0	2.111	2.324	20.581	23.088	8.968	21.286	20.419	0.855	0.940	1.570
117.5	0.445	1.129	14.765	22.203	7.032	20.091	12.539	0.641	0.716	0.633
120.0	0.576	0.455	8.838	20.761	6.085	18.259	5.421	0.513	0.505	0.292
122.5	0.693	0.332	2.834	18.429	5.477	16.280	2.723	0.392	0.590	0.347
125.0	0.580	0.318	0.480	13.944	4.376	10.085	0.471	0.462	0.665	0.377

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CANDELA TABULATION - (Cont.)

127.5	0.481	0.411	0.403	6.364	3.126	3.081	0.363	0.541	0.608	0.392
130.0	0.524	0.500	0.426	1.702	2.040	1.481	0.298	0.492	0.551	0.483
132.5	0.571	0.585	0.503	0.878	0.999	0.729	0.409	0.439	0.479	0.616
135.0	0.650	0.555	0.568	0.434	0.648	0.527	0.473	0.395	0.411	0.618
137.5	0.723	0.433	0.627	0.447	0.456	0.399	0.367	0.354	0.371	0.556
140.0	0.754	0.479	0.611	0.454	0.388	0.327	0.305	0.429	0.353	0.512
142.5	0.754	0.650	0.560	0.451	0.345	0.261	0.384	0.503	0.482	0.476
145.0	0.595	0.726	0.511	0.483	0.410	0.370	0.453	0.541	0.579	0.486
147.5	0.504	0.736	0.462	0.550	0.493	0.491	0.498	0.583	0.505	0.514
150.0	0.728	0.663	0.485	0.550	0.456	0.458	0.523	0.682	0.443	0.510
152.5	0.857	0.540	0.535	0.489	0.404	0.417	0.493	0.764	0.441	0.494
155.0	0.614	0.575	0.535	0.456	0.357	0.386	0.464	0.689	0.448	0.503
157.5	0.457	0.693	0.520	0.443	0.311	0.358	0.436	0.598	0.494	0.520
160.0	0.514	0.640	0.596	0.451	0.338	0.391	0.486	0.439	0.534	0.461
162.5	0.521	0.555	0.655	0.466	0.368	0.400	0.624	0.376	0.567	0.421
165.0	0.483	0.676	0.561	0.300	0.402	0.363	0.502	0.438	0.513	0.528
167.5	0.581	0.574	0.540	0.276	0.453	0.369	0.379	0.476	0.463	0.631
170.0	0.586	0.411	0.559	0.391	0.496	0.423	0.386	0.544	0.532	0.645
172.5	0.565	0.646	0.541	0.440	0.491	0.491	0.219	0.529	0.598	0.468
175.0	0.547	0.593	0.375	0.355	0.386	0.441	0.296	0.396	0.528	0.457
177.5	0.512	0.434	0.453	0.497	0.414	0.533	0.438	0.487	0.593	0.504
180.0	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508	0.508

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	399.387	399.387	399.387	399.387	399.387	399.387	399.387
2.5	399.967	400.335	400.058	398.782	399.599	398.982	399.951
5.0	400.425	398.128	400.113	399.143	394.588	398.342	393.689
7.5	386.353	382.449	382.799	383.790	381.937	382.597	381.143
10.0	371.878	361.520	361.621	363.186	356.662	358.276	353.018
12.5	329.209	319.615	321.219	324.339	315.186	319.675	311.943
15.0	286.287	276.780	277.243	280.081	270.969	273.702	265.521
17.5	238.326	230.747	231.929	235.265	223.576	226.207	215.028
20.0	190.795	186.656	186.407	190.306	180.363	177.998	172.307
22.5	154.185	148.477	150.679	153.193	141.590	142.917	135.001
25.0	119.005	116.688	116.203	117.824	114.616	113.291	111.726
27.5	104.993	102.284	103.065	103.163	99.134	98.966	97.247
30.0	91.664	90.301	91.988	92.450	88.733	90.354	87.792
32.5	85.352	84.133	84.361	84.094	82.804	82.530	81.252
35.0	78.610	76.673	76.979	76.106	74.495	74.967	72.308
37.5	68.271	66.368	66.366	66.364	64.238	65.235	62.115
40.0	57.985	56.039	55.601	56.391	54.145	54.872	52.045
42.5	48.043	45.664	45.543	46.147	44.172	44.926	42.032
45.0	38.307	36.078	35.498	35.876	35.009	35.087	33.182
47.5	29.708	27.881	27.535	28.364	26.383	27.041	24.828
50.0	21.465	20.199	19.623	21.049	19.078	19.393	17.954
52.5	14.892	13.355	13.731	14.557	12.588	13.915	11.638
55.0	9.328	8.833	8.106	8.107	9.429	8.841	9.166
57.5	7.785	7.708	7.645	7.848	8.114	8.368	7.988
60.0	6.764	7.415	7.312	7.734	8.329	8.635	8.587
62.5	7.572	8.236	8.760	8.451	9.314	9.619	9.717
65.0	8.536	9.185	10.271	9.192	10.563	10.695	10.982

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67.5	9.984	10.288	12.416	10.990	11.932	12.139	12.282
70.0	11.538	11.775	14.405	12.784	13.071	13.620	13.911
72.5	13.374	13.687	15.180	14.484	14.118	15.228	15.614
75.0	14.826	15.338	16.088	16.186	15.677	16.846	16.805
77.5	15.323	16.724	17.833	17.916	17.422	17.859	17.898
80.0	16.181	18.422	19.554	19.607	19.007	18.844	19.093
82.5	17.837	20.409	21.153	20.909	20.540	20.098	20.305
85.0	19.359	21.706	22.652	22.193	21.777	21.358	21.743
87.5	20.617	22.421	23.698	23.352	22.932	22.741	23.211
90.0	21.813	23.537	24.724	24.473	23.819	24.091	24.273
92.5	22.895	24.966	25.669	25.350	24.640	24.147	25.294
95.0	23.593	25.996	26.450	26.086	24.947	24.200	25.396
97.5	23.668	26.744	26.678	26.066	25.145	24.193	25.433
100.0	23.715	26.735	26.788	26.031	25.568	24.221	25.270
102.5	23.723	26.245	26.542	25.923	26.029	24.742	25.096
105.0	23.882	25.821	25.758	25.730	25.636	24.509	24.546
107.5	24.249	25.435	23.539	25.196	25.112	16.923	23.986
110.0	23.666	24.772	19.966	24.611	23.887	9.644	13.855
112.5	21.919	23.964	13.207	23.853	22.577	4.829	3.860
115.0	18.845	22.915	8.564	23.146	19.346	0.670	2.111
117.5	14.281	21.751	8.497	22.593	15.935	0.673	0.445
120.0	9.237	19.984	8.112	21.434	8.915	0.661	0.576
122.5	3.701	17.957	7.116	18.634	1.649	0.572	0.693
125.0	0.874	12.173	5.666	14.447	0.868	0.509	0.580
127.5	0.564	4.954	3.424	6.943	0.345	0.567	0.481
130.0	0.411	2.087	1.787	1.591	0.414	0.601	0.524
132.5	0.396	0.706	1.118	0.964	0.492	0.539	0.571
135.0	0.386	0.402	0.642	0.523	0.515	0.463	0.650
137.5	0.383	0.425	0.443	0.449	0.541	0.338	0.723
140.0	0.396	0.463	0.373	0.468	0.642	0.245	0.754
142.5	0.420	0.504	0.474	0.650	0.729	0.248	0.754
145.0	0.397	0.530	0.499	0.705	0.539	0.291	0.595
147.5	0.342	0.551	0.435	0.556	0.363	0.443	0.504
150.0	0.344	0.581	0.457	0.505	0.367	0.562	0.728
152.5	0.380	0.613	0.572	0.595	0.378	0.601	0.857
155.0	0.439	0.524	0.593	0.594	0.454	0.634	0.614
157.5	0.510	0.416	0.524	0.480	0.505	0.656	0.457
160.0	0.542	0.429	0.525	0.429	0.450	0.604	0.514
162.5	0.556	0.458	0.566	0.424	0.473	0.473	0.521
165.0	0.480	0.521	0.397	0.440	0.592	0.379	0.483
167.5	0.524	0.512	0.290	0.448	0.512	0.355	0.581
170.0	0.606	0.421	0.272	0.437	0.494	0.458	0.586
172.5	0.492	0.293	0.238	0.390	0.496	0.418	0.565
175.0	0.367	0.409	0.497	0.526	0.423	0.706	0.547
177.5	0.418	0.378	0.572	0.538	0.449	0.556	0.512
180.0	0.508	0.508	0.508	0.508	0.508	0.508	0.508

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Zone	Lumens	%Lamp	%Fixt
0-20	111.98	N.A.	29.90
0-30	168.58	N.A.	45.00
0-40	214.46	N.A.	57.30
0-60	251.35	N.A.	67.10
0-80	278.96	N.A.	74.50
0-90	302.78	N.A.	80.90
10-90	266.06	N.A.	71.10
20-40	102.48	N.A.	27.40
20-50	129.85	N.A.	34.70
40-70	47.24	N.A.	12.60
60-80	27.62	N.A.	7.40
70-80	17.26	N.A.	4.60
80-90	23.82	N.A.	6.40
90-110	53.65	N.A.	14.30
90-120	66.60	N.A.	17.80
90-130	70.44	N.A.	18.80
90-150	71.21	N.A.	19.00
90-180	71.63	N.A.	19.10
110-180	17.97	N.A.	4.80
0-180	374.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.73
10-20	75.26
20-30	56.59
30-40	45.88
40-50	27.37
50-60	9.52
60-70	10.36
70-80	17.26
80-90	23.82
90-100	27.83
100-110	25.83
110-120	12.95
120-130	3.84
130-140	0.46
140-150	0.31
150-160	0.24
160-170	0.14
170-180	0.04

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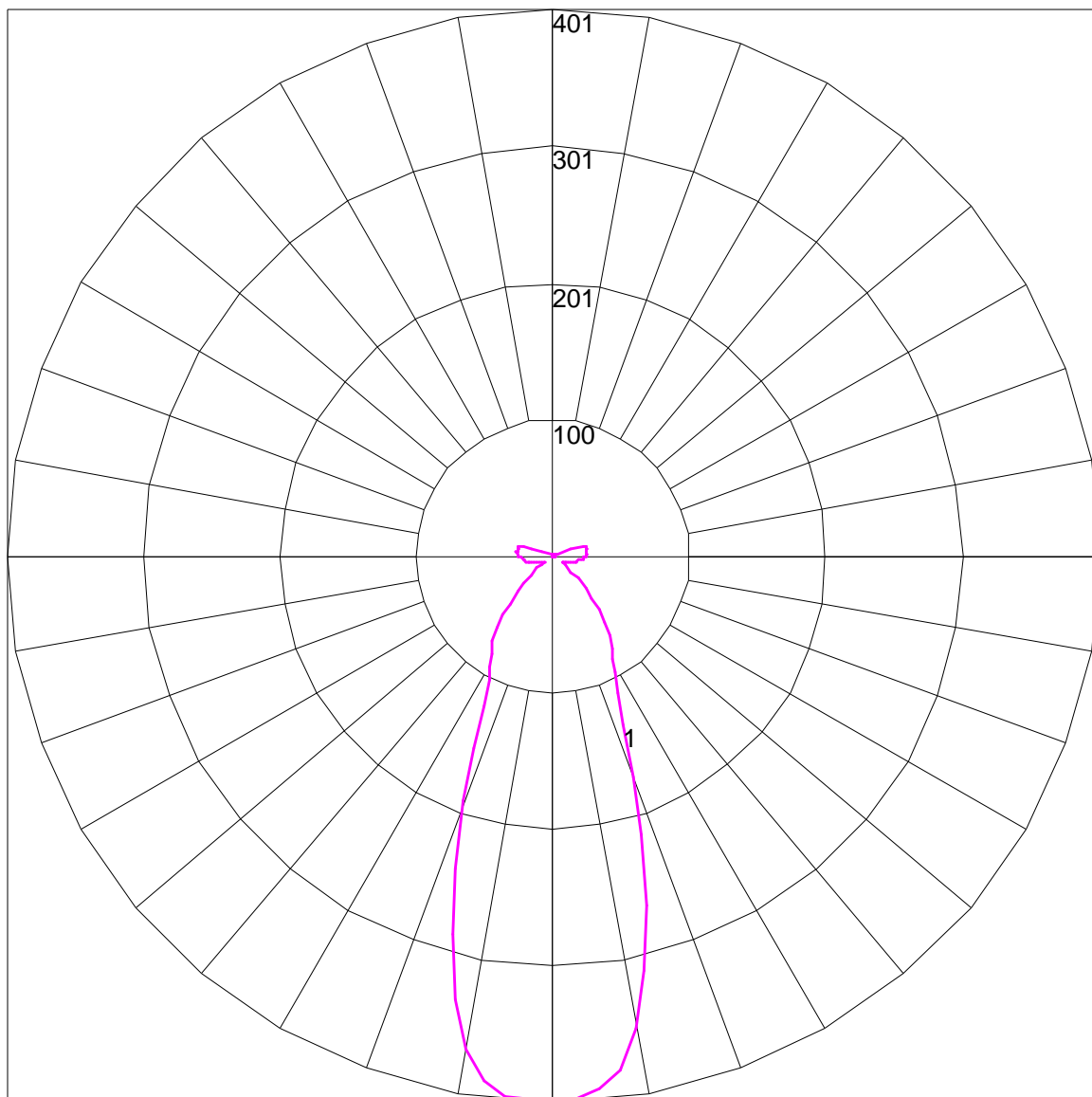
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	92	92	92	85	85	85	81
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	75	73	71	68
2	97	90	84	79	93	87	82	77	80	76	72	74	71	68	69	66	64	61
3	91	82	76	70	87	79	73	68	74	69	65	69	65	61	64	61	58	55
4	85	76	69	63	82	73	67	62	68	63	59	64	60	56	60	56	53	51
5	80	70	63	57	77	68	61	56	64	58	54	60	55	52	56	53	50	47
6	76	65	58	53	73	63	57	52	60	54	50	56	52	48	53	49	46	44
7	72	61	54	49	69	59	53	48	56	50	46	53	48	45	50	46	43	41
8	68	57	50	45	65	55	49	45	53	47	43	50	45	42	48	44	41	39
9	64	54	47	42	62	52	46	42	50	44	41	48	43	39	45	41	38	37
10	61	51	44	40	59	49	43	39	47	42	38	45	41	37	43	39	36	35

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PHOTOMETRIC FILENAME : SP-00662_2 ~ CP0608XT-10L35K-OSD-EX-NLSAL-PT.IES

POLAR GRAPH



Maximum Candela = 401.404 Located At Horizontal Angle = 67.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)