

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00660_1 ~ CP0608XT-20L35K-NSD-EX-FASAL-PT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00661_1
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/9/2018
 [LUMCAT] CP0608XT-20L35K-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1545
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	21.7
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10095	9910	10309
55	9201	9013	9204
65	8756	8542	8210
75	9290	9184	8639
85	9456	9746	9235

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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	909.377	909.377	909.377	909.377	909.377	909.377	909.377	909.377	909.377	909.377
2.5	897.372	901.781	906.064	907.967	914.597	919.677	917.344	918.514	913.862	913.629
5.0	884.812	892.575	895.627	905.994	911.684	916.088	917.573	914.262	912.526	909.626
7.5	871.380	874.727	880.558	892.673	903.889	907.239	909.919	906.434	903.476	896.576
10.0	844.427	849.302	849.340	864.161	876.147	876.132	875.591	867.689	870.350	869.371
12.5	813.832	814.035	808.566	826.922	835.656	834.676	837.205	821.325	833.393	827.877
15.0	777.061	770.320	770.724	778.417	793.041	790.393	786.020	776.977	785.040	787.973
17.5	738.750	737.478	734.524	741.237	749.117	744.849	741.724	733.098	743.068	749.595
20.0	715.069	713.509	711.517	717.946	721.073	717.396	718.135	711.446	719.206	720.841
22.5	694.917	696.841	695.509	699.833	702.293	697.546	698.007	694.668	699.360	701.000
25.0	684.127	685.833	685.742	687.937	689.741	685.782	687.799	686.149	690.203	686.913
27.5	675.416	675.203	679.208	677.885	680.685	677.331	678.113	679.289	681.146	677.969
30.0	643.166	664.860	632.173	669.936	658.850	655.515	669.828	649.581	672.344	653.349
32.5	606.121	562.965	565.300	589.650	630.117	628.553	616.709	615.574	616.565	615.413
35.0	436.619	395.072	420.816	430.856	492.862	479.489	448.345	443.397	446.310	492.867
37.5	241.152	281.506	240.441	305.002	300.204	286.301	306.020	246.952	304.710	300.980
40.0	195.668	205.688	179.248	214.146	216.945	213.124	227.749	200.919	228.860	206.035
42.5	176.930	173.689	171.830	167.938	187.337	182.143	172.433	178.729	175.915	187.714
45.0	170.168	171.027	167.045	166.843	173.773	171.183	170.275	171.207	174.232	176.077
47.5	165.335	165.011	163.381	162.585	167.763	166.811	165.981	165.836	170.285	169.460
50.0	156.914	156.863	155.144	155.290	159.206	157.514	156.943	157.410	161.559	161.015
52.5	147.940	147.699	145.077	146.380	149.518	146.704	147.724	148.572	152.150	151.245
55.0	138.407	137.913	135.579	135.953	138.456	135.724	138.121	138.180	141.377	141.386
57.5	128.797	129.389	126.303	126.914	126.799	124.693	128.327	127.603	131.633	131.464
60.0	122.244	121.608	119.055	119.116	117.717	115.650	118.149	120.044	123.891	122.432
62.5	116.077	116.145	112.550	112.018	109.684	107.158	109.840	112.824	116.627	113.990
65.0	111.840	111.976	109.105	105.522	104.866	101.715	105.143	107.262	110.243	108.128
67.5	107.824	108.211	106.729	100.765	101.282	97.075	100.771	101.861	105.037	103.940
70.0	103.530	104.662	102.505	97.454	96.572	93.319	97.005	98.366	101.882	99.791
72.5	99.209	100.336	97.664	93.639	91.443	89.784	92.916	95.028	98.039	95.668
75.0	93.972	95.610	92.897	89.425	87.380	84.870	88.258	90.579	93.020	91.664
77.5	88.655	90.667	88.154	84.818	83.690	79.641	83.199	86.047	87.765	87.732
80.0	81.257	85.619	82.082	79.911	78.046	74.392	77.448	79.932	82.127	81.737
82.5	73.695	79.094	75.617	74.489	71.762	69.139	71.871	73.718	76.902	74.568
85.0	67.607	71.867	69.680	68.687	66.029	63.950	66.581	68.426	72.310	67.621
87.5	61.612	64.265	63.892	63.355	60.471	58.774	61.297	63.179	66.790	60.794
90.0	55.343	56.494	58.871	58.349	55.117	53.984	56.022	58.985	59.877	55.589
92.5	49.059	51.192	54.050	53.445	49.823	49.264	51.161	54.835	53.765	51.210
95.0	45.304	46.933	48.734	48.607	46.044	45.033	46.924	49.019	48.794	46.787
97.5	41.660	43.160	43.294	43.382	42.691	40.887	42.845	43.156	44.240	42.343
100.0	38.884	39.588	40.912	37.904	39.418	37.910	38.991	40.787	40.259	38.898
102.5	36.136	36.764	39.243	34.708	36.166	35.122	35.908	38.486	36.771	35.923
105.0	33.513	34.232	35.323	32.915	32.886	31.838	33.873	33.256	33.935	32.409
107.5	30.893	29.773	30.920	31.204	29.600	28.484	31.587	27.984	29.034	28.652
110.0	21.514	24.615	28.515	29.541	25.371	26.623	28.966	18.181	21.539	21.615
112.5	12.060	17.467	26.524	27.859	20.921	24.967	25.665	8.469	14.627	13.160
115.0	8.158	9.616	22.413	26.165	17.739	23.396	21.501	6.437	8.422	8.284
117.5	4.272	5.705	17.903	24.651	14.837	21.835	16.601	4.416	4.457	4.865
120.0	2.993	3.099	13.017	23.233	12.847	19.937	10.800	2.948	3.109	3.031
122.5	1.730	1.950	8.067	20.000	11.041	18.004	6.583	1.528	2.161	1.815
125.0	1.350	1.253	5.739	15.812	9.242	13.939	4.234	1.500	1.655	1.343

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CANDELA TABULATION - (Cont.)

127.5	0.990	1.092	3.840	11.737	7.443	9.664	2.745	1.464	1.400	1.148
130.0	1.216	1.092	2.717	7.717	5.561	6.792	2.220	1.291	1.414	1.134
132.5	1.438	1.158	1.708	5.268	3.664	4.037	1.767	1.122	1.304	1.183
135.0	1.556	1.242	1.510	3.558	3.182	3.190	1.393	1.029	1.068	1.172
137.5	1.651	1.149	1.419	2.622	2.927	2.476	1.144	0.947	0.986	1.141
140.0	1.276	1.010	1.343	2.042	2.363	1.739	1.023	1.003	1.057	1.036
142.5	0.939	1.003	1.269	1.700	1.753	1.001	0.996	1.058	1.017	0.907
145.0	1.187	1.028	1.168	1.462	1.522	0.935	1.061	1.086	0.871	0.993
147.5	1.430	1.018	1.065	1.478	1.342	0.903	1.198	1.111	0.907	1.141
150.0	1.617	1.000	1.216	1.600	1.258	0.994	1.403	1.098	1.110	1.051
152.5	1.764	1.074	1.392	1.602	1.185	1.091	1.330	1.096	1.168	0.892
155.0	1.471	1.169	1.404	1.556	1.253	0.987	0.998	1.189	1.101	1.076
157.5	1.209	1.224	1.399	1.281	1.335	0.889	0.800	1.238	1.030	1.346
160.0	1.098	1.274	1.302	0.938	1.413	0.938	0.695	1.089	0.957	1.348
162.5	1.042	1.329	1.304	1.419	1.401	0.992	0.804	1.182	0.894	1.291
165.0	1.059	1.294	1.536	1.626	1.163	1.058	0.925	1.581	0.912	1.097
167.5	1.154	1.140	1.523	1.281	1.185	1.275	0.887	1.239	1.223	1.177
170.0	1.426	1.604	1.448	1.511	1.231	1.305	1.093	1.046	1.233	1.427
172.5	1.553	1.332	1.390	1.449	1.181	1.197	1.152	1.051	1.108	1.595
175.0	1.208	1.235	1.229	1.488	1.144	1.584	1.103	1.080	1.075	1.000
177.5	1.022	1.089	1.379	1.286	0.909	1.156	1.065	1.257	0.886	1.074
180.0	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198

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	909.377	909.377	909.377	909.377	909.377	909.377	909.377
2.5	909.786	909.202	904.643	904.198	899.741	899.305	897.372
5.0	907.837	900.817	897.617	894.158	884.333	886.292	884.812
7.5	896.037	886.520	880.886	878.116	867.451	870.679	871.380
10.0	869.373	857.480	850.571	850.820	841.396	846.266	844.427
12.5	834.484	818.727	814.762	818.529	813.080	818.987	813.832
15.0	787.639	779.733	771.649	777.232	777.518	782.665	777.061
17.5	749.556	740.586	736.785	741.514	740.229	748.847	738.750
20.0	723.569	713.779	712.341	715.324	716.666	722.706	715.069
22.5	702.881	694.397	694.196	695.208	696.112	699.975	694.917
25.0	689.246	683.285	683.840	685.074	685.279	687.019	684.127
27.5	678.836	676.963	673.092	674.697	676.398	674.979	675.416
30.0	672.565	642.925	661.882	663.936	644.594	665.402	643.166
32.5	609.472	593.446	571.501	588.272	608.360	611.792	606.121
35.0	477.081	454.345	392.661	415.157	440.411	442.935	436.619
37.5	352.903	267.987	270.733	285.593	249.329	301.105	241.152
40.0	238.389	196.299	211.057	219.994	204.012	225.767	195.668
42.5	177.162	183.665	181.140	181.950	182.514	172.213	176.930
45.0	176.410	176.186	182.177	182.331	174.753	169.109	170.168
47.5	171.596	171.218	178.036	178.441	169.073	164.552	165.335
50.0	162.399	161.778	168.698	168.896	159.329	156.714	156.914
52.5	152.083	150.284	157.536	157.842	149.036	147.915	147.940
55.0	140.585	139.360	144.607	144.833	138.979	137.070	138.407
57.5	129.759	128.691	134.340	133.885	128.952	126.590	128.797
60.0	119.610	120.047	126.522	125.476	120.892	116.859	122.244
62.5	111.217	112.259	119.566	118.938	113.053	108.837	116.077
65.0	104.503	107.850	113.374	114.590	108.488	104.173	111.840

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67.5	98.729	104.784	109.316	110.838	104.241	99.515	107.824
70.0	93.837	101.093	107.085	107.769	100.771	94.867	103.530
72.5	89.289	97.160	103.614	103.928	97.368	90.312	99.209
75.0	85.047	92.616	99.133	99.244	92.016	85.923	93.972
77.5	80.920	87.850	92.814	93.367	86.516	81.242	88.655
80.0	76.891	81.689	85.051	86.254	81.252	76.061	81.257
82.5	71.051	75.045	77.266	79.001	76.003	70.394	73.695
85.0	63.714	69.070	69.463	71.607	68.302	63.935	67.607
87.5	57.740	63.316	62.160	64.295	60.465	57.965	61.612
90.0	52.839	57.292	55.217	57.062	54.916	52.762	55.343
92.5	48.368	51.183	49.648	50.673	49.462	47.805	49.059
95.0	44.223	46.689	45.047	45.070	44.454	43.220	45.304
97.5	41.191	42.669	41.342	40.802	39.459	39.255	41.660
100.0	38.972	39.112	38.237	37.734	37.281	36.179	38.884
102.5	35.822	35.683	35.269	35.051	35.167	33.130	36.136
105.0	32.025	33.147	32.389	32.700	31.967	30.119	33.513
107.5	29.056	30.841	28.391	30.708	28.762	25.148	30.893
110.0	26.639	28.093	23.699	29.012	27.539	17.564	21.514
112.5	23.865	25.238	19.382	27.338	26.288	11.274	12.060
115.0	20.860	23.411	15.285	25.682	21.717	6.621	8.158
117.5	16.742	21.821	13.465	23.605	17.138	3.440	4.272
120.0	11.943	19.500	12.914	21.212	12.210	2.082	2.993
122.5	7.892	17.022	11.566	18.241	7.376	1.275	1.730
125.0	4.281	13.522	9.786	14.850	5.289	1.116	1.350
127.5	2.842	9.812	7.533	11.277	3.248	1.054	0.990
130.0	2.634	7.137	5.035	7.575	2.340	1.101	1.216
132.5	2.044	4.656	3.708	5.285	1.460	1.201	1.438
135.0	1.251	3.543	2.960	3.936	1.087	1.360	1.556
137.5	0.895	2.661	2.355	2.966	0.748	1.435	1.651
140.0	0.767	1.799	1.818	2.244	0.943	1.423	1.276
142.5	0.783	0.941	1.515	1.930	1.126	1.377	0.939
145.0	0.870	0.844	1.317	1.867	1.150	1.294	1.187
147.5	0.928	0.859	1.229	1.770	1.171	1.191	1.430
150.0	0.972	1.015	1.188	1.653	1.161	1.067	1.617
152.5	1.043	1.189	1.409	1.535	1.161	1.115	1.764
155.0	1.125	1.281	1.739	1.415	1.255	1.322	1.471
157.5	1.242	1.364	1.704	1.532	1.323	1.460	1.209
160.0	1.371	1.269	1.558	1.752	1.269	1.550	1.098
162.5	1.160	1.210	1.341	1.766	1.137	1.312	1.042
165.0	1.133	1.246	1.255	1.701	0.906	1.059	1.059
167.5	1.519	1.138	1.421	1.497	1.061	1.075	1.154
170.0	1.234	1.095	1.135	1.321	1.382	1.288	1.426
172.5	1.173	1.215	1.150	1.417	1.574	1.153	1.553
175.0	1.157	1.279	1.146	1.408	1.296	1.000	1.208
177.5	1.053	1.383	1.033	1.482	1.526	1.134	1.022
180.0	1.198	1.198	1.198	1.198	1.198	1.198	1.198

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Zone	Lumens	%Lamp	%Fixt
0-20	304.81	N.A.	19.70
0-30	622.18	N.A.	40.30
0-40	892.91	N.A.	57.80
0-60	1153.98	N.A.	74.70
0-80	1358.1	N.A.	87.90
0-90	1432.45	N.A.	92.70
10-90	1347.58	N.A.	87.20
20-40	588.10	N.A.	38.10
20-50	724.32	N.A.	46.90
40-70	368.97	N.A.	23.90
60-80	204.12	N.A.	13.20
70-80	96.22	N.A.	6.20
80-90	74.35	N.A.	4.80
90-110	85.45	N.A.	5.50
90-120	102.49	N.A.	6.60
90-130	108.65	N.A.	7.00
90-150	111.15	N.A.	7.20
90-180	112.20	N.A.	7.30
110-180	26.75	N.A.	1.70
0-180	1544.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.86
10-20	219.94
20-30	317.37
30-40	270.73
40-50	136.22
50-60	124.85
60-70	107.90
70-80	96.22
80-90	74.35
90-100	50.96
100-110	34.48
110-120	17.05
120-130	6.15
130-140	1.73
140-150	0.77
150-160	0.58
160-170	0.35
170-180	0.12

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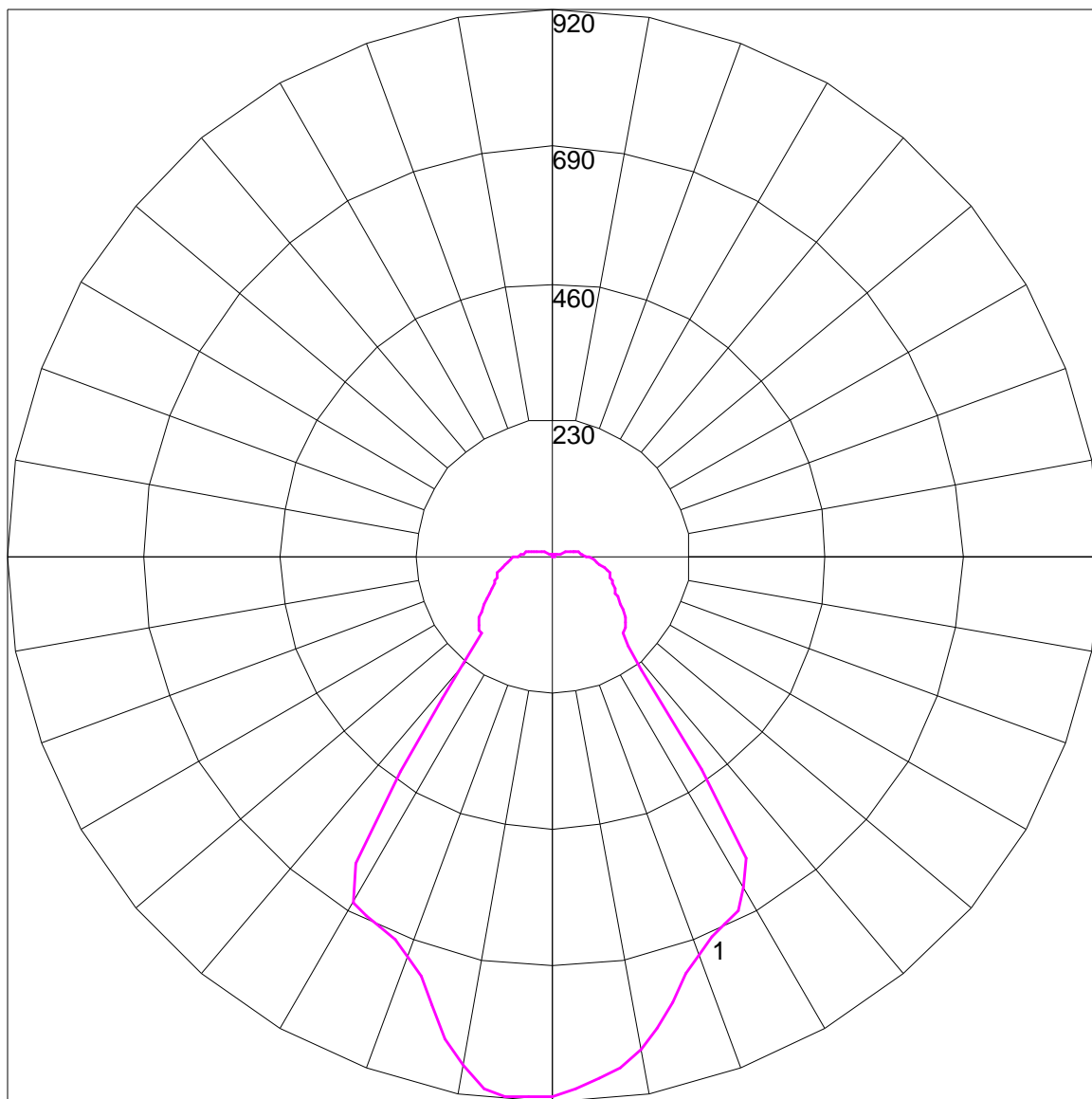
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	92	94	91	88	89	86	84	84	82	80	78
2	99	91	85	79	95	88	83	78	84	79	75	79	75	72	75	72	69	67
3	91	82	74	68	88	79	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	48	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-20L35K-NSD-EX-FASAL-PT.IES

POLAR GRAPH



Maximum Candela = 919.677 Located At Horizontal Angle = 112.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)