

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660 ~ CP0608XT-20L35K-CSD-EX-FASAL-PT.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00661
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/6/2018
 [LUMCAT] CP0608XT-20L35K-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	21.7
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-20L35K-CSD-EX-FASAL-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7596	7413	7788
55	5826	5762	5744
65	6757	6679	6381
75	8014	8113	7607
85	10910	11375	10521

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660 ~ CP0608XT-20L35K-CSD-EX-FASAL-PT.IES

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	248.419	248.419	248.419	248.419	248.419	248.419	248.419	248.419	248.419	248.419
2.5	248.332	248.503	248.724	249.285	249.027	248.674	248.363	249.085	249.084	248.949
5.0	248.982	248.791	249.284	250.122	249.985	249.647	248.854	249.828	249.802	249.481
7.5	249.707	249.860	249.604	250.889	250.577	250.556	250.098	250.225	250.227	250.025
10.0	250.472	250.286	249.733	251.029	250.955	251.417	250.686	250.412	250.326	250.574
12.5	249.749	249.249	248.804	250.214	250.368	250.472	250.233	249.283	249.793	249.722
15.0	248.207	247.553	247.026	248.346	249.204	248.173	248.502	247.351	248.235	248.211
17.5	244.806	244.329	244.235	244.847	246.092	244.824	244.715	244.058	244.664	245.111
20.0	240.365	240.849	240.620	241.224	241.795	240.675	240.757	239.926	240.948	241.257
22.5	235.764	236.765	236.552	237.404	237.833	236.713	236.519	236.451	236.945	237.060
25.0	231.072	232.099	232.110	233.132	234.079	232.896	232.439	233.389	232.933	232.699
27.5	224.754	226.042	225.298	228.134	228.603	227.486	228.624	227.663	228.904	227.727
30.0	217.501	217.867	216.503	220.324	222.049	220.824	221.798	220.243	222.151	222.456
32.5	205.512	204.556	204.165	207.964	211.032	209.745	209.904	208.039	209.786	211.170
35.0	190.752	190.278	188.814	193.807	197.187	195.156	195.935	192.742	196.038	196.868
37.5	174.457	173.610	172.596	176.696	181.051	178.784	178.415	176.415	179.389	180.985
40.0	157.248	157.373	155.628	160.043	163.442	160.973	161.492	159.412	163.001	164.299
42.5	142.039	142.225	139.794	144.153	146.982	144.587	145.603	143.705	147.166	148.385
45.0	128.034	127.539	124.948	129.051	131.275	129.365	130.429	128.863	132.093	132.870
47.5	115.106	114.035	111.846	115.285	117.130	115.413	116.516	115.564	118.668	119.212
50.0	102.837	101.865	100.291	102.663	104.019	102.514	103.920	103.306	106.305	106.526
52.5	94.132	93.171	92.008	92.010	94.127	92.675	93.685	94.443	96.267	97.071
55.0	87.634	86.858	86.671	84.799	86.402	85.416	86.367	87.909	88.786	89.335
57.5	85.479	86.833	84.491	83.581	82.906	81.957	84.339	85.318	87.001	86.214
60.0	86.057	86.971	85.183	82.906	82.302	81.752	82.981	85.464	85.884	85.590
62.5	86.290	87.549	85.448	83.195	81.851	81.267	82.856	85.499	86.285	85.432
65.0	86.302	87.902	85.316	83.231	81.504	80.538	82.519	85.455	86.411	85.528
67.5	85.535	87.639	84.842	82.815	80.902	79.476	81.783	84.592	85.905	84.674
70.0	84.263	87.126	84.048	82.014	80.121	78.120	80.722	83.140	85.001	83.291
72.5	82.744	85.914	83.120	80.511	78.747	76.820	79.042	81.711	83.165	81.415
75.0	81.064	84.852	82.064	79.319	76.949	75.569	77.746	80.298	81.574	79.263
77.5	79.920	84.213	81.357	78.702	76.020	74.609	77.192	79.268	80.570	78.119
80.0	79.133	83.687	80.988	78.334	75.720	73.912	76.715	78.519	79.700	77.555
82.5	78.510	83.488	80.979	78.435	75.457	73.699	76.386	78.311	79.154	76.966
85.0	77.998	83.227	81.323	78.565	75.221	73.931	76.176	78.508	78.739	76.364
87.5	77.956	82.784	81.526	78.751	75.368	73.992	76.200	78.408	78.645	76.277
90.0	78.236	82.376	81.589	78.963	75.797	73.896	76.308	78.083	78.556	76.497
92.5	78.027	82.069	81.344	79.227	75.771	73.782	76.582	77.946	78.481	76.274
95.0	77.475	81.746	80.790	79.216	75.402	73.652	76.424	77.951	78.431	75.784
97.5	76.593	81.372	80.008	78.665	74.382	72.925	75.379	77.425	78.444	75.045
100.0	75.478	80.625	78.994	77.800	72.865	71.629	74.258	76.484	77.905	74.154
102.5	73.923	78.707	77.479	76.307	71.188	70.067	72.976	74.143	75.933	72.601
105.0	72.051	75.424	75.444	74.453	69.386	68.248	71.466	70.697	72.298	70.640
107.5	60.919	67.796	73.155	71.863	62.858	66.197	69.475	54.956	64.257	59.563
110.0	43.062	55.760	70.597	69.162	52.607	63.918	66.839	29.343	51.384	42.768
112.5	26.259	29.386	65.734	66.231	42.417	61.362	62.810	13.663	25.541	26.205
115.0	10.233	8.329	58.426	63.173	32.275	58.529	54.372	6.047	5.972	9.790
117.5	2.775	4.830	44.512	59.848	25.751	55.062	36.272	2.200	3.580	2.779
120.0	1.740	1.988	23.476	55.440	22.156	50.955	20.556	1.463	1.672	1.836
122.5	1.135	1.365	9.968	48.716	18.891	41.747	10.163	1.043	1.115	1.251
125.0	0.855	0.876	4.663	38.524	15.897	27.307	2.726	0.888	0.691	0.902

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660 ~ CP0608XT-20L35K-CSD-EX-FASAL-PT.IES

CANDELA TABULATION - (Cont.)

127.5	0.762	0.854	1.644	20.826	11.571	15.824	1.974	0.773	0.645	0.781
130.0	0.813	0.826	1.156	7.651	6.135	7.407	1.344	0.691	0.616	0.812
132.5	0.806	0.778	0.857	4.444	3.021	2.628	0.993	0.690	0.637	0.839
135.0	0.755	0.760	0.770	2.059	1.869	1.678	0.745	0.760	0.652	0.864
137.5	0.723	0.850	0.762	1.519	1.225	1.087	0.739	0.768	0.647	0.829
140.0	0.705	0.895	0.846	1.066	1.018	0.879	0.729	0.722	0.645	0.752
142.5	0.667	0.773	0.862	0.809	0.865	0.726	0.707	0.744	0.648	0.708
145.0	0.613	0.699	0.801	0.667	0.759	0.633	0.705	0.827	0.641	0.688
147.5	0.660	0.804	0.759	0.790	0.674	0.593	0.752	0.764	0.601	0.702
150.0	0.789	0.885	0.739	0.850	0.609	0.613	0.772	0.571	0.576	0.738
152.5	0.810	0.872	0.728	0.762	0.594	0.625	0.726	0.537	0.598	0.753
155.0	0.742	0.845	0.730	0.724	0.623	0.628	0.698	0.650	0.631	0.751
157.5	0.687	0.761	0.763	0.807	0.658	0.662	0.712	0.645	0.698	0.749
160.0	0.644	0.713	0.835	0.837	0.696	0.730	0.731	0.531	0.741	0.748
162.5	0.599	0.808	0.861	0.740	0.727	0.733	0.758	0.529	0.704	0.744
165.0	0.552	0.877	0.832	0.674	0.752	0.662	0.744	0.631	0.683	0.739
167.5	0.578	0.839	0.819	0.687	0.737	0.613	0.617	0.644	0.715	0.690
170.0	0.667	0.784	0.823	0.708	0.685	0.592	0.551	0.571	0.728	0.609
172.5	0.704	0.665	0.857	0.748	0.689	0.606	0.645	0.558	0.679	0.672
175.0	0.696	0.616	0.926	0.779	0.745	0.662	0.687	0.601	0.677	0.846
177.5	0.709	0.869	0.878	0.785	0.681	0.686	0.586	0.670	0.837	0.858
180.0	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765	0.765

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	248.419	248.419	248.419	248.419	248.419	248.419	248.419
2.5	248.525	248.436	249.088	248.409	248.501	248.478	248.332
5.0	249.062	249.096	249.393	248.646	248.752	248.754	248.982
7.5	250.193	249.652	249.375	248.925	249.368	249.676	249.707
10.0	250.798	250.137	249.303	249.035	250.224	250.192	250.472
12.5	250.711	249.356	249.133	248.909	249.775	250.000	249.749
15.0	249.292	247.695	247.709	247.392	248.455	248.651	248.207
17.5	246.091	244.452	244.030	243.884	245.064	245.252	244.806
20.0	242.312	240.094	240.192	240.147	240.267	241.297	240.365
22.5	237.746	236.214	236.064	236.076	235.615	236.344	235.764
25.0	233.613	232.674	231.495	231.458	231.064	231.372	231.072
27.5	230.075	227.138	226.105	226.036	224.818	226.367	224.754
30.0	223.394	220.154	218.048	218.104	217.392	218.995	217.501
32.5	212.323	208.589	204.973	206.437	205.927	207.235	205.512
35.0	198.997	193.648	190.721	192.738	191.614	193.948	190.752
37.5	182.487	177.634	174.215	175.966	176.101	177.798	174.457
40.0	166.056	160.821	158.171	159.800	159.728	161.677	157.248
42.5	149.740	144.863	143.027	144.564	144.140	145.613	142.039
45.0	134.365	129.554	128.519	129.935	129.124	130.476	128.034
47.5	120.365	115.912	115.265	116.252	115.882	117.132	115.106
50.0	107.681	103.554	103.527	104.366	103.954	105.098	102.837
52.5	96.939	94.326	94.834	95.322	95.257	95.638	94.132
55.0	89.124	87.535	88.741	88.972	88.977	88.573	87.634
57.5	85.700	84.560	87.962	86.951	86.256	86.299	85.479
60.0	83.566	84.603	87.673	85.896	86.241	84.946	86.057
62.5	83.402	84.403	88.400	86.412	85.785	85.469	86.290
65.0	82.865	84.009	88.637	86.441	84.990	85.654	86.302

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660 ~ CP0608XT-20L35K-CSD-EX-FASAL-PT.IES

CANDELA TABULATION - (Cont.)

67.5	81.753	83.150	87.843	85.666	83.904	85.140	85.535
70.0	80.353	81.915	86.827	84.888	82.590	84.016	84.263
72.5	78.503	80.604	85.336	84.105	81.567	81.611	82.744
75.0	76.796	79.231	84.006	83.389	80.775	79.464	81.064
77.5	75.319	78.301	83.025	82.787	80.024	77.865	79.920
80.0	74.306	77.741	82.251	82.313	79.305	76.661	79.133
82.5	74.040	77.793	81.936	82.059	79.164	76.317	78.510
85.0	73.835	78.362	81.798	82.071	79.494	76.007	77.998
87.5	73.728	78.744	82.060	82.550	79.595	75.775	77.956
90.0	73.626	78.964	82.316	82.863	79.505	75.452	78.236
92.5	73.532	78.760	82.555	82.883	79.361	74.926	78.027
95.0	73.307	78.188	82.401	82.447	79.171	74.431	77.475
97.5	72.862	77.450	81.330	81.184	78.602	74.008	76.593
100.0	72.168	76.566	79.997	79.840	77.710	73.261	75.478
102.5	71.046	75.281	78.050	78.347	76.125	71.772	73.923
105.0	69.494	73.635	74.786	76.546	73.939	65.999	72.051
107.5	67.190	71.425	68.363	74.170	71.366	50.176	60.919
110.0	64.387	68.704	58.545	71.503	68.453	33.994	43.062
112.5	60.704	65.861	40.428	68.286	63.647	16.951	26.259
115.0	53.677	62.908	27.165	65.104	57.162	4.407	10.233
117.5	40.645	59.354	26.002	61.990	43.044	2.824	2.775
120.0	27.220	55.239	24.479	57.648	22.074	1.593	1.740
122.5	13.080	46.418	22.046	50.907	9.470	1.232	1.135
125.0	3.429	33.144	18.497	40.104	4.495	0.955	0.855
127.5	2.072	20.751	12.071	21.232	1.811	0.887	0.762
130.0	1.106	9.206	6.647	7.494	1.248	0.836	0.813
132.5	0.879	2.987	3.835	4.142	0.973	0.828	0.806
135.0	0.728	1.971	1.689	1.781	0.967	0.814	0.755
137.5	0.724	1.305	1.317	1.449	0.869	0.786	0.723
140.0	0.759	0.986	1.003	1.165	0.683	0.793	0.705
142.5	0.868	0.813	0.845	0.984	0.652	0.890	0.667
145.0	0.905	0.784	0.717	0.818	0.773	0.914	0.613
147.5	0.803	0.785	0.673	0.685	0.771	0.742	0.660
150.0	0.751	0.817	0.664	0.618	0.650	0.641	0.789
152.5	0.800	0.817	0.750	0.691	0.623	0.738	0.810
155.0	0.824	0.785	0.812	0.741	0.690	0.794	0.742
157.5	0.801	0.775	0.807	0.743	0.727	0.735	0.687
160.0	0.743	0.788	0.774	0.756	0.734	0.706	0.644
162.5	0.614	0.775	0.666	0.798	0.712	0.756	0.599
165.0	0.569	0.734	0.604	0.791	0.661	0.788	0.552
167.5	0.698	0.715	0.679	0.674	0.632	0.762	0.578
170.0	0.765	0.717	0.730	0.597	0.624	0.754	0.667
172.5	0.698	0.702	0.706	0.611	0.651	0.794	0.704
175.0	0.688	0.670	0.699	0.618	0.714	0.820	0.696
177.5	0.801	0.669	0.744	0.608	0.697	0.805	0.709
180.0	0.765	0.765	0.765	0.765	0.765	0.765	0.765

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00660 ~ CP0608XT-20L35K-CSD-EX-FASAL-PT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	93.72	N.A.	9.70
0-30	200.66	N.A.	20.80
0-40	320.72	N.A.	33.20
0-60	502.39	N.A.	52.00
0-80	671.28	N.A.	69.40
0-90	756.72	N.A.	78.30
10-90	732.89	N.A.	75.80
20-40	227.00	N.A.	23.50
20-50	327.66	N.A.	33.90
40-70	265.50	N.A.	27.50
60-80	168.89	N.A.	17.50
70-80	85.06	N.A.	8.80
80-90	85.44	N.A.	8.80
90-110	158.66	N.A.	16.40
90-120	196.48	N.A.	20.30
90-130	207.85	N.A.	21.50
90-150	209.53	N.A.	21.70
90-180	210.13	N.A.	21.70
110-180	51.47	N.A.	5.30
0-180	966.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.83
10-20	69.89
20-30	106.94
30-40	120.06
40-50	100.66
50-60	81.00
60-70	83.83
70-80	85.06
80-90	85.44
90-100	84.74
100-110	73.92
110-120	37.82
120-130	11.37
130-140	1.20
140-150	0.48
150-160	0.33
160-170	0.20
170-180	0.07

IES INDOOR REPORT

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

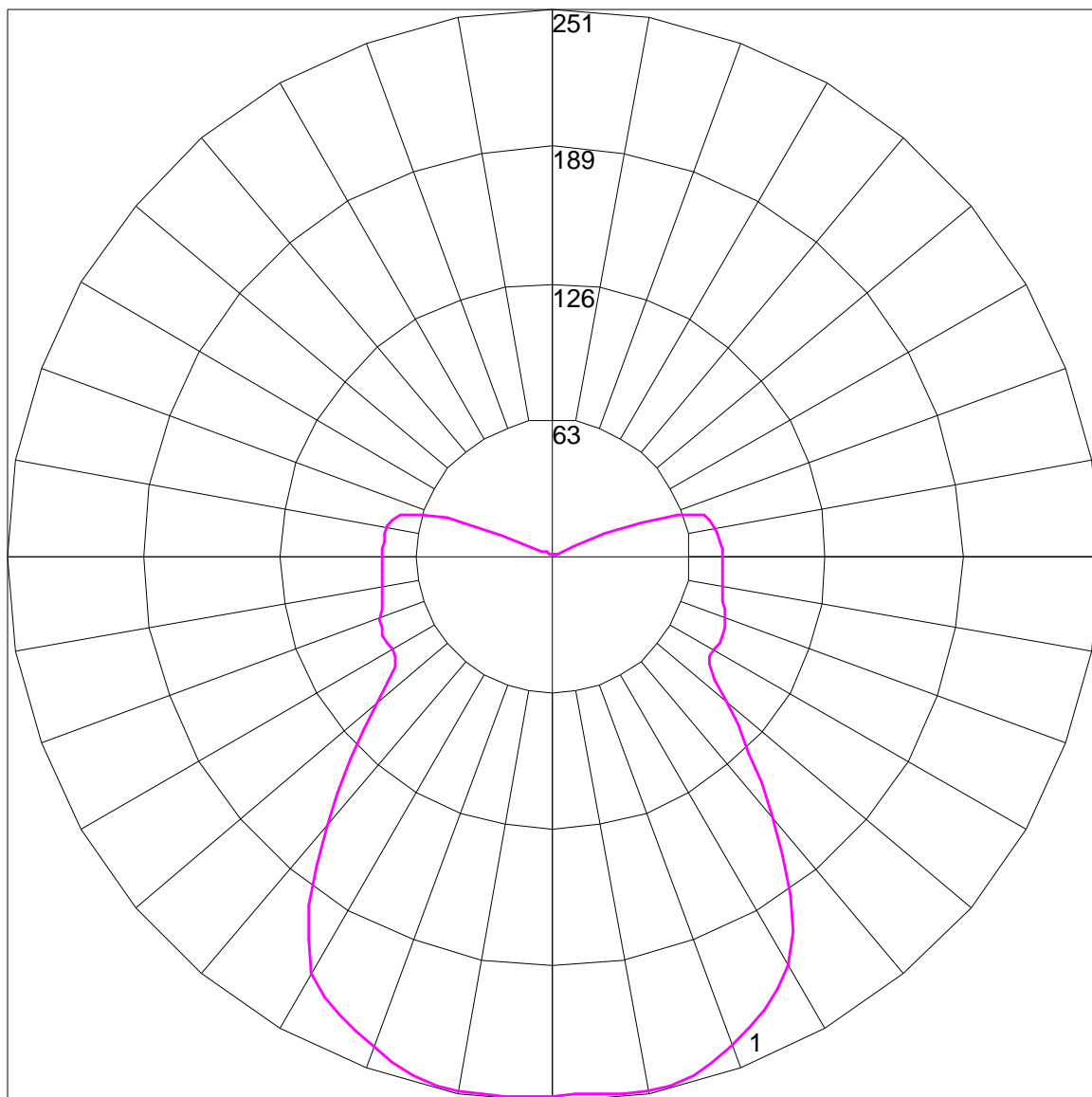
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	86	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	64	54	48	72	61	52	46	55	49	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	22	30	24	20	28	23	19	17

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00660 ~ CP0608XT-20L35K-CSD-EX-FASAL-PT.IES

POLAR GRAPH



Maximum Candela = 251.417 Located At Horizontal Angle = 112.5, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180)