

IES INDOOR REPORT

PHOTOMETRIC FILENAME : WPCL-L97-840-BZ-EM6W-DIM-UNV(EM MODE ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from Q2017082202 scaled from 5K

[TESTLAB] QSSI

[ISSUE DATE] 05-04-2021

[MANUFAC]

[LUMCAT] WPCL-L97-840-BZ-EM6W-DIM-UNV(EMERGENCY MODE)

[LUMINAIRE] WPC45Q WITH ONE 81W QSSI LED ARRAY, TYPE IV OPTIC

[LAMPCAT] SAMSUNG 351B LEDs

[LAMP] 112 SAMSUNG 351B LEDs

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.10
Spacing Criterion (90-270)	2.52
Spacing Criterion (Diagonal)	2.64
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	108.589	107.159	106.639	105.252	105.209	103.736	103.346	102.176	101.179	98.666
10	125.575	124.881	122.671	121.415	120.895	120.072	118.945	117.818	115.522	113.658
15	137.404	137.361	135.671	134.501	133.764	132.161	130.818	129.908	127.655	125.791
20	143.557	144.467	144.294	145.030	145.594	143.861	142.994	141.607	140.134	138.661
25	149.580	149.840	150.490	151.487	151.054	150.057	149.754	149.494	149.494	147.500
30	158.550	157.467	158.593	157.337	154.520	153.350	153.913	154.433	155.690	155.473
35	170.943	170.639	169.859	167.910	163.966	161.366	162.016	165.570	167.780	167.563
40	183.076	182.946	182.166	180.519	182.296	183.812	182.296	180.042	184.289	177.919
45	199.195	199.672	201.101	199.715	199.411	200.278	198.545	192.782	186.499	184.029
50	227.577	227.620	227.057	223.460	221.121	219.691	216.354	208.251	199.151	192.522
55	248.636	249.936	251.149	250.586	253.619	257.606	253.576	243.826	233.773	218.044
60	222.594	223.331	231.303	236.113	253.749	264.539	270.345	273.768	272.988	263.932
65	165.440	169.123	176.272	189.185	202.661	211.631	234.033	248.029	257.216	253.273
70	169.599	168.083	163.750	160.673	157.033	153.133	147.760	147.630	158.463	167.476
75	149.060	143.947	135.411	122.801	98.319	83.508	83.157	76.831	68.208	63.559
80	76.445	75.488	68.641	52.422	40.112	28.308	22.719	18.724	17.818	17.571
85	26.965	26.471	17.610	12.843	9.689	7.847	6.933	5.611	5.759	6.240
90	0.264	0.325	0.386	0.412	0.416	0.360	0.334	0.386	0.407	0.368
95	0.208	0.208	0.212	0.221	0.230	0.247	0.264	0.286	0.312	0.347
100	0.165	0.165	0.165	0.169	0.182	0.204	0.225	0.260	0.290	0.329
105	0.130	0.130	0.130	0.139	0.152	0.178	0.208	0.243	0.277	0.321
110	0.104	0.113	0.117	0.130	0.143	0.165	0.195	0.225	0.256	0.295
115	0.100	0.100	0.108	0.121	0.134	0.152	0.178	0.204	0.234	0.264
120	0.100	0.104	0.108	0.121	0.130	0.147	0.165	0.191	0.217	0.251
125	0.108	0.108	0.113	0.130	0.139	0.152	0.169	0.195	0.217	0.251
130	0.130	0.130	0.139	0.143	0.156	0.173	0.191	0.208	0.234	0.264
135	0.156	0.160	0.165	0.169	0.182	0.195	0.212	0.234	0.256	0.277
140	0.199	0.204	0.212	0.217	0.230	0.238	0.251	0.273	0.290	0.316
145	0.290	0.299	0.299	0.312	0.321	0.338	0.355	0.377	0.394	0.420
150	0.498	0.511	0.511	0.524	0.529	0.546	0.568	0.576	0.602	0.611
155	0.867	0.862	0.880	0.897	0.897	0.914	0.914	0.940	0.958	0.966
160	1.361	1.352	1.365	1.352	1.374	1.387	1.382	1.395	1.391	1.408
165	1.716	1.725	1.751	1.733	1.742	1.751	1.742	1.751	1.746	1.751
170	1.868	1.876	1.876	1.885	1.889	1.885	1.889	1.894	1.885	1.885
175	1.885	1.885	1.898	1.898	1.898	1.907	1.907	1.902	1.907	1.902
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	96.413	94.333	93.076	89.739	87.010	83.846	80.423	77.477	71.454	69.677
10	111.275	108.892	106.119	103.302	98.839	94.116	89.566	84.150	75.223	69.764
15	123.191	121.241	118.252	114.135	110.062	105.122	99.749	92.469	81.507	73.317
20	135.584	132.768	128.825	125.488	120.678	115.305	108.849	100.616	87.400	78.430
25	146.027	143.731	140.437	136.798	132.551	127.005	119.422	109.239	95.373	84.583
30	154.130	152.180	149.190	146.330	143.081	137.924	129.041	119.292	104.602	92.036
35	168.819	165.136	161.626	158.853	152.743	146.677	138.834	129.301	114.048	101.179
40	181.082	175.926	179.479	172.199	163.403	153.610	146.850	138.531	124.535	112.835
45	181.429	180.129	176.359	173.283	167.910	162.363	157.727	151.834	138.357	128.131
50	188.102	183.162	175.839	170.336	167.996	166.826	166.653	163.533	153.610	143.167
55	207.384	197.505	187.539	178.006	173.673	173.889	177.096	178.006	168.906	159.330
60	248.939	230.220	211.328	193.995	182.079	182.772	188.102	193.345	186.889	180.129

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CANDELA TABULATION - (Cont.)

65	241.876	226.580	211.198	203.095	195.902	200.191	205.565	211.761	207.991	199.975
70	163.793	154.000	147.847	156.427	163.143	177.182	200.581	219.257	224.500	213.408
75	63.619	70.028	68.945	70.167	76.614	85.038	104.299	154.477	188.059	189.445
80	21.102	22.667	25.245	24.712	24.664	26.684	36.563	52.830	78.603	84.583
85	6.409	7.943	7.293	7.479	6.370	5.850	6.227	5.681	24.222	24.829
90	0.464	0.438	0.464	0.494	0.524	0.550	0.568	0.563	0.689	0.698
95	0.386	0.425	0.464	0.498	0.533	0.563	0.585	0.607	0.724	0.745
100	0.377	0.420	0.464	0.507	0.546	0.572	0.598	0.615	0.719	0.750
105	0.364	0.407	0.442	0.485	0.520	0.546	0.572	0.589	0.672	0.711
110	0.334	0.377	0.416	0.459	0.498	0.529	0.550	0.572	0.637	0.667
115	0.303	0.351	0.394	0.438	0.477	0.511	0.537	0.563	0.615	0.646
120	0.290	0.334	0.377	0.429	0.468	0.498	0.529	0.559	0.589	0.620
125	0.286	0.329	0.381	0.429	0.472	0.511	0.542	0.572	0.594	0.624
130	0.303	0.342	0.390	0.438	0.481	0.520	0.546	0.576	0.624	0.659
135	0.308	0.342	0.381	0.420	0.455	0.485	0.511	0.537	0.633	0.672
140	0.342	0.368	0.399	0.429	0.459	0.490	0.511	0.537	0.659	0.693
145	0.438	0.468	0.485	0.516	0.542	0.563	0.585	0.607	0.715	0.750
150	0.637	0.667	0.680	0.719	0.732	0.741	0.776	0.784	0.819	0.849
155	0.988	1.010	1.014	1.036	1.057	1.057	1.075	1.088	1.075	1.088
160	1.421	1.413	1.426	1.439	1.426	1.434	1.439	1.421	1.434	1.434
165	1.751	1.738	1.742	1.738	1.720	1.716	1.707	1.690	1.668	1.664
170	1.876	1.872	1.868	1.850	1.842	1.829	1.816	1.803	1.738	1.738
175	1.894	1.885	1.876	1.872	1.863	1.850	1.846	1.833	1.694	1.703
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Angles

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	67.077	65.127	63.697	61.921	60.967	60.057	58.844	58.411	57.631	57.414
10	64.737	61.444	58.801	56.548	55.118	54.208	53.038	52.388	51.998	51.521
15	66.037	61.184	57.848	55.204	53.384	51.954	50.655	49.831	49.095	48.575
20	69.157	62.354	57.718	54.684	52.388	50.785	49.441	48.098	47.231	46.538
25	73.360	64.564	58.411	54.684	52.258	50.438	48.791	47.145	46.235	45.325
30	78.863	67.987	60.231	55.508	52.734	50.525	48.531	46.755	45.411	44.415
35	89.046	76.870	66.081	58.671	54.511	51.694	49.008	47.318	45.758	44.458
40	102.132	88.960	76.827	67.077	58.281	53.558	51.088	48.965	46.971	44.978
45	115.868	101.872	88.353	78.647	66.860	57.544	53.731	50.785	47.838	45.411
50	130.514	115.998	100.919	88.570	76.393	66.600	57.544	52.431	48.835	45.888
55	147.197	130.254	112.705	97.019	85.710	77.173	66.774	57.718	51.911	47.318
60	165.180	144.034	121.805	106.379	102.132	101.872	96.369	87.573	75.483	61.531
65	180.736	154.823	129.258	113.962	106.899	98.362	89.956	79.557	64.867	53.341
70	190.529	158.290	124.145	105.079	94.809	82.027	69.417	48.618	29.899	23.269
75	168.993	130.514	92.253	68.767	52.431	36.788	23.226	13.641	2.409	0.598
80	72.884	41.122	23.529	24.872	2.435	0.828	0.533	0.490	0.477	0.477
85	11.726	2.011	0.754	0.633	0.607	0.594	0.581	0.581	0.581	0.581
90	0.702	0.711	0.715	0.711	0.702	0.698	0.689	0.693	0.689	0.689
95	0.763	0.780	0.789	0.789	0.789	0.784	0.780	0.780	0.776	0.776
100	0.776	0.797	0.815	0.823	0.828	0.828	0.832	0.832	0.832	0.832
105	0.741	0.771	0.797	0.815	0.823	0.823	0.832	0.836	0.845	0.849
110	0.706	0.741	0.767	0.784	0.793	0.797	0.797	0.806	0.815	0.823
115	0.680	0.715	0.741	0.763	0.763	0.763	0.763	0.763	0.771	0.780
120	0.659	0.693	0.715	0.728	0.737	0.732	0.732	0.732	0.737	0.750
125	0.659	0.693	0.719	0.732	0.737	0.741	0.741	0.745	0.750	0.758
130	0.702	0.728	0.754	0.771	0.780	0.789	0.793	0.797	0.806	0.815
135	0.711	0.741	0.767	0.789	0.806	0.823	0.836	0.849	0.858	0.875

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CANDELA TABULATION - (Cont.)

140	0.724	0.754	0.780	0.806	0.823	0.849	0.867	0.893	0.910	0.936
145	0.780	0.810	0.836	0.862	0.893	0.919	0.940	0.971	0.988	1.005
150	0.875	0.901	0.936	0.958	0.988	1.014	1.036	1.066	1.088	1.101
155	1.122	1.135	1.153	1.187	1.205	1.226	1.257	1.274	1.300	1.304
160	1.452	1.456	1.460	1.482	1.491	1.508	1.517	1.525	1.543	1.551
165	1.668	1.673	1.673	1.686	1.686	1.681	1.690	1.690	1.699	1.703
170	1.746	1.742	1.738	1.733	1.725	1.720	1.716	1.703	1.703	1.699
175	1.699	1.690	1.681	1.673	1.668	1.664	1.664	1.655	1.655	1.655
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Angles

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	57.241	56.678	56.851	57.024	56.764	56.851	56.461	56.374	57.198	57.284
10	51.348	51.305	50.958	51.088	51.261	50.915	50.395	50.481	51.434	51.564
15	48.228	48.185	47.491	47.578	47.318	47.145	46.755	46.928	47.621	48.228
20	46.018	45.628	45.065	44.761	44.545	44.155	43.721	43.895	44.371	44.978
25	44.588	43.808	43.028	42.552	42.032	41.425	41.078	41.338	41.685	42.465
30	43.505	42.595	41.685	41.078	40.342	39.692	39.345	39.605	40.125	40.905
35	43.245	42.118	40.992	40.212	39.258	38.608	38.132	38.565	39.128	39.952
40	43.288	41.642	40.212	39.042	38.218	37.655	37.438	37.612	38.175	38.955
45	43.288	41.122	39.345	37.915	37.438	37.785	37.438	37.915	37.525	38.002
50	42.985	40.385	38.132	36.658	36.052	36.788	36.052	36.658	36.355	37.222
55	42.812	39.215	36.268	34.579	33.755	33.365	33.192	33.322	33.799	35.315
60	49.355	34.882	28.469	26.086	24.699	24.136	24.092	24.266	24.699	26.909
65	45.541	25.652	23.226	14.425	13.771	13.441	13.394	13.463	13.675	17.242
70	15.942	7.176	5.330	3.042	2.743	2.726	2.483	2.639	2.587	3.185
75	0.498	0.433	0.407	0.381	0.360	0.347	0.342	0.338	0.338	0.351
80	0.472	0.464	0.451	0.438	0.420	0.420	0.412	0.407	0.403	0.403
85	0.581	0.572	0.563	0.550	0.537	0.524	0.520	0.516	0.516	0.516
90	0.689	0.680	0.672	0.659	0.654	0.641	0.628	0.628	0.628	0.624
95	0.776	0.771	0.763	0.754	0.741	0.732	0.724	0.715	0.711	0.711
100	0.832	0.828	0.815	0.810	0.797	0.780	0.771	0.763	0.763	0.767
105	0.849	0.841	0.832	0.823	0.810	0.802	0.797	0.789	0.789	0.789
110	0.828	0.823	0.823	0.823	0.819	0.815	0.815	0.806	0.802	0.797
115	0.789	0.797	0.802	0.806	0.810	0.806	0.806	0.802	0.793	0.789
120	0.754	0.763	0.771	0.776	0.776	0.776	0.780	0.771	0.767	0.758
125	0.771	0.776	0.780	0.784	0.784	0.789	0.793	0.789	0.780	0.776
130	0.819	0.828	0.828	0.832	0.832	0.836	0.841	0.836	0.836	0.836
135	0.880	0.888	0.888	0.888	0.893	0.897	0.901	0.897	0.893	0.888
140	0.949	0.962	0.971	0.971	0.975	0.975	0.975	0.966	0.962	0.949
145	1.027	1.036	1.049	1.053	1.053	1.062	1.062	1.057	1.053	1.040
150	1.122	1.127	1.144	1.161	1.170	1.179	1.179	1.174	1.174	1.161
155	1.339	1.348	1.356	1.361	1.378	1.382	1.391	1.391	1.382	1.387
160	1.569	1.573	1.577	1.595	1.595	1.599	1.612	1.612	1.616	1.599
165	1.707	1.707	1.716	1.720	1.725	1.729	1.729	1.738	1.742	1.751
170	1.699	1.699	1.694	1.699	1.694	1.699	1.707	1.712	1.725	1.738
175	1.655	1.651	1.651	1.651	1.655	1.660	1.664	1.673	1.681	1.694
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Angles

Horizontal Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	58.237	58.411	58.497	59.234	59.754	60.751	62.094	63.481	64.824	67.034

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

10	51.954	52.431	52.908	53.514	54.338	55.378	56.461	57.934	59.884	62.441
15	48.531	49.138	49.875	50.785	51.911	53.124	54.511	56.418	58.454	61.401
20	45.541	46.061	47.101	48.141	49.485	50.915	52.691	55.161	57.631	61.097
25	43.331	44.285	45.411	46.668	48.185	49.745	51.738	54.338	57.718	61.964
30	41.902	42.985	44.458	46.105	47.838	49.615	52.041	55.118	58.801	64.131
35	41.252	42.552	44.285	46.321	48.488	50.698	53.731	57.804	63.351	70.977
40	40.255	41.988	44.328	46.711	49.485	52.604	56.461	63.264	72.104	82.417
45	39.345	41.295	43.938	46.971	50.221	54.251	61.141	71.064	82.850	94.983
50	38.782	40.818	43.765	47.535	51.824	58.281	69.114	81.247	92.989	105.426
55	37.568	41.295	46.711	53.514	61.271	72.277	83.153	91.733	102.046	114.828
60	32.239	45.628	60.881	74.617	88.743	100.052	109.065	114.698	119.162	125.488
65	23.226	28.599	44.675	54.598	69.894	87.703	97.063	106.812	117.038	127.785
70	6.036	7.735	22.359	23.442	34.275	56.591	75.137	87.356	100.616	113.875
75	0.368	0.407	0.459	0.594	2.093	23.226	25.046	36.182	52.604	71.540
80	0.407	0.407	0.416	0.416	0.412	0.425	0.459	0.893	2.669	23.746
85	0.520	0.516	0.516	0.516	0.507	0.498	0.498	0.498	0.516	0.542
90	0.620	0.624	0.615	0.611	0.594	0.589	0.589	0.589	0.594	0.602
95	0.711	0.711	0.698	0.689	0.676	0.667	0.663	0.663	0.667	0.672
100	0.763	0.763	0.754	0.745	0.728	0.715	0.711	0.711	0.715	0.711
105	0.789	0.784	0.776	0.767	0.754	0.741	0.732	0.728	0.724	0.719
110	0.793	0.784	0.771	0.754	0.741	0.728	0.719	0.719	0.715	0.711
115	0.780	0.763	0.754	0.728	0.715	0.706	0.702	0.702	0.698	0.698
120	0.750	0.737	0.724	0.706	0.693	0.685	0.680	0.680	0.680	0.676
125	0.771	0.758	0.741	0.732	0.715	0.706	0.698	0.698	0.689	0.685
130	0.828	0.815	0.806	0.793	0.780	0.763	0.750	0.741	0.728	0.719
135	0.884	0.875	0.867	0.849	0.836	0.823	0.806	0.789	0.771	0.754
140	0.940	0.932	0.923	0.910	0.897	0.884	0.867	0.845	0.828	0.802
145	1.040	1.031	1.018	1.010	0.988	0.971	0.945	0.923	0.897	0.871
150	1.157	1.140	1.127	1.109	1.096	1.075	1.057	1.023	1.005	0.984
155	1.374	1.369	1.361	1.339	1.343	1.322	1.326	1.304	1.283	1.265
160	1.603	1.608	1.599	1.595	1.590	1.590	1.569	1.599	1.599	1.612
165	1.751	1.751	1.755	1.759	1.764	1.781	1.785	1.803	1.811	1.820
170	1.742	1.755	1.772	1.781	1.798	1.811	1.829	1.846	1.863	1.876
175	1.712	1.725	1.742	1.755	1.764	1.777	1.785	1.798	1.811	1.824
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Angles Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	68.767	71.020	73.187	75.960	77.650	80.987	83.933	86.750	90.086	91.906
10	65.604	70.024	74.747	80.380	85.363	90.433	95.893	100.312	103.389	107.635
15	65.431	71.454	78.387	86.403	93.943	100.356	107.245	112.619	116.952	120.548
20	66.081	73.534	81.897	91.863	100.529	110.279	117.602	123.625	128.045	131.988
25	67.640	76.870	87.010	98.059	108.892	119.812	128.131	134.414	140.481	144.034
30	72.320	84.496	96.803	107.982	119.118	130.298	140.611	146.244	151.054	154.217
35	82.980	96.413	109.629	120.332	132.334	141.521	150.924	155.907	159.850	163.056
40	96.499	110.712	123.668	134.804	146.677	152.917	160.153	164.400	169.686	178.959
45	109.239	124.621	137.794	148.844	162.450	168.386	171.723	175.189	178.092	185.675
50	121.155	139.094	153.653	164.833	178.569	181.862	181.559	180.172	180.302	183.942
55	131.381	153.697	170.509	182.382	195.078	195.598	191.482	187.105	186.499	192.522
60	142.474	167.173	187.669	201.881	213.364	208.814	201.058	193.908	195.945	209.291
65	148.410	177.962	202.791	219.994	228.530	221.077	210.721	205.001	207.644	217.091
70	141.087	181.126	211.501	231.997	233.470	220.037	202.055	181.992	173.196	171.159
75	94.983	144.510	179.739	195.468	163.793	149.450	108.242	82.828	81.745	79.695
80	23.616	44.111	88.613	84.150	58.567	51.305	39.310	28.932	25.856	27.199

IES INDOOR REPORT

PHOTOMETRIC FILENAME : WPCL-L97-840-BZ-EM6W-DIM-UNV(EM MODE ONLY).IES

CANDELA TABULATION - (Cont.)

85	0.719	2.366	11.136	23.009	4.316	6.357	6.877	7.375	7.132	8.259
90	0.607	0.602	0.598	0.585	0.633	0.624	0.620	0.585	0.555	0.516
95	0.672	0.663	0.650	0.633	0.659	0.637	0.602	0.568	0.524	0.485
100	0.706	0.693	0.672	0.650	0.641	0.611	0.581	0.550	0.511	0.468
105	0.706	0.685	0.659	0.628	0.585	0.559	0.537	0.511	0.481	0.442
110	0.702	0.672	0.641	0.611	0.555	0.533	0.511	0.490	0.455	0.416
115	0.685	0.663	0.633	0.602	0.542	0.516	0.490	0.468	0.433	0.394
120	0.667	0.641	0.615	0.581	0.529	0.503	0.477	0.451	0.420	0.377
125	0.672	0.654	0.624	0.589	0.542	0.511	0.485	0.455	0.416	0.373
130	0.706	0.685	0.654	0.624	0.542	0.507	0.472	0.438	0.403	0.364
135	0.732	0.702	0.676	0.646	0.498	0.464	0.429	0.403	0.373	0.342
140	0.776	0.750	0.724	0.693	0.503	0.472	0.446	0.416	0.390	0.364
145	0.841	0.823	0.793	0.767	0.559	0.537	0.516	0.485	0.464	0.433
150	0.949	0.945	0.919	0.893	0.706	0.689	0.676	0.650	0.624	0.607
155	1.261	1.244	1.235	1.213	0.975	0.958	0.949	0.945	0.923	0.919
160	1.608	1.603	1.603	1.595	1.322	1.317	1.304	1.296	1.304	1.326
165	1.829	1.837	1.842	1.850	1.547	1.564	1.577	1.586	1.595	1.612
170	1.889	1.898	1.911	1.915	1.647	1.660	1.677	1.690	1.707	1.729
175	1.833	1.833	1.846	1.850	1.681	1.681	1.690	1.707	1.725	1.742
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Angles

Horizontal Angles

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597	76.597
5	94.246	96.066	98.709	101.482	100.789	102.652	104.212	104.646	105.729	105.469
10	110.235	112.489	114.872	117.905	118.078	119.985	120.548	121.675	122.368	122.541
15	123.321	125.878	128.001	129.474	130.688	131.858	132.984	133.591	134.631	134.848
20	134.458	137.707	139.787	141.651	143.254	144.034	144.727	145.464	145.030	145.680
25	147.587	149.494	150.404	151.270	152.180	151.184	151.097	150.924	150.317	150.490
30	156.947	158.810	159.027	158.507	157.813	155.690	154.000	153.957	155.560	158.767
35	166.393	170.509	169.946	169.036	168.256	166.263	165.916	165.786	168.863	171.376
40	183.682	183.249	189.315	184.289	188.622	187.582	192.912	193.302	189.879	187.235
45	190.009	192.132	194.082	194.645	199.975	208.294	214.708	214.881	210.634	209.421
50	189.575	194.862	200.278	208.511	217.784	224.067	229.527	231.910	233.730	234.380
55	202.401	211.068	223.937	237.413	250.499	260.249	263.455	265.015	263.542	261.202
60	224.544	242.786	263.542	278.578	283.561	281.655	275.372	266.835	256.306	243.480
65	226.667	240.316	260.596	269.305	267.832	259.382	237.587	219.777	200.711	184.765
70	169.166	176.272	184.809	185.849	171.333	156.947	152.224	155.343	157.683	161.670
75	75.505	78.369	68.407	60.209	63.485	67.320	80.679	85.658	84.024	128.131
80	26.723	24.981	21.276	17.584	16.756	19.179	22.389	27.299	34.804	49.467
85	8.103	8.467	7.132	6.578	6.066	6.578	7.847	9.087	11.162	13.220
90	0.472	0.425	0.455	0.355	0.381	0.498	0.312	0.295	0.620	0.377
95	0.438	0.390	0.347	0.308	0.282	0.260	0.238	0.230	0.217	0.208
100	0.416	0.368	0.321	0.282	0.256	0.234	0.212	0.199	0.182	0.178
105	0.399	0.351	0.303	0.269	0.234	0.208	0.191	0.169	0.156	0.143
110	0.373	0.329	0.286	0.247	0.221	0.191	0.169	0.147	0.130	0.121
115	0.351	0.299	0.264	0.225	0.199	0.173	0.152	0.134	0.121	0.108
120	0.329	0.286	0.247	0.212	0.186	0.165	0.147	0.130	0.117	0.108
125	0.325	0.282	0.243	0.212	0.191	0.165	0.147	0.134	0.126	0.117
130	0.325	0.282	0.251	0.225	0.199	0.182	0.165	0.152	0.143	0.134
135	0.312	0.277	0.251	0.230	0.212	0.195	0.182	0.178	0.169	0.160
140	0.338	0.312	0.286	0.269	0.247	0.234	0.221	0.212	0.208	0.199
145	0.416	0.394	0.373	0.355	0.338	0.325	0.308	0.299	0.290	0.290
150	0.589	0.572	0.559	0.533	0.529	0.503	0.503	0.503	0.485	0.494
155	0.901	0.897	0.875	0.875	0.871	0.858	0.858	0.862	0.849	0.854

IES INDOOR REPORT**PHOTOMETRIC FILENAME : WPCL-L97-840-BZ-EM6W-DIM-UNV(EM MODE ONLY).IES****CANDELA TABULATION - (Cont.)**

160	1.309	1.322	1.309	1.317	1.330	1.317	1.326	1.339	1.330	1.339
165	1.629	1.642	1.647	1.660	1.660	1.677	1.686	1.690	1.699	1.712
170	1.746	1.755	1.772	1.790	1.803	1.816	1.829	1.833	1.842	1.846
175	1.759	1.772	1.785	1.794	1.807	1.811	1.820	1.837	1.855	1.868
180	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736	1.736

Vert. Angles **Horizontal Angles**

	<u>350</u>	<u>355</u>	<u>360</u>
0	76.597	76.597	76.597
5	106.465	107.419	108.589
10	123.191	123.668	125.575
15	135.801	136.278	137.404
20	145.940	144.207	143.557
25	151.140	150.664	149.580
30	160.197	160.673	158.550
35	172.979	172.373	170.943
40	186.542	184.592	183.076
45	208.034	203.528	199.195
50	236.373	234.987	227.577
55	258.776	254.399	248.636
60	237.283	226.624	222.594
65	173.889	168.213	165.440
70	166.263	170.813	169.599
75	140.871	146.460	149.060
80	63.749	78.001	76.445
85	15.261	23.295	26.965
90	0.269	0.286	0.264
95	0.208	0.208	0.208
100	0.169	0.169	0.165
105	0.134	0.130	0.130
110	0.113	0.108	0.104
115	0.100	0.095	0.100
120	0.100	0.100	0.100
125	0.108	0.104	0.108
130	0.130	0.130	0.130
135	0.156	0.156	0.156
140	0.199	0.199	0.199
145	0.290	0.286	0.290
150	0.494	0.490	0.498
155	0.845	0.858	0.867
160	1.326	1.339	1.361
165	1.707	1.720	1.716
170	1.859	1.868	1.868
175	1.872	1.881	1.885
180	1.736	1.736	1.736

IES INDOOR REPORT**PHOTOMETRIC FILENAME : WPCL-L97-840-BZ-EM6W-DIM-UNV(EM MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	33.20	N.A.	5.30
0-30	79.05	N.A.	12.70
0-40	148.97	N.A.	23.90
0-60	384.66	N.A.	61.60
0-80	609.06	N.A.	97.60
0-90	619.82	N.A.	99.30
10-90	612.11	N.A.	98.10
20-40	115.77	N.A.	18.60
20-50	215.68	N.A.	34.60
40-70	382.21	N.A.	61.30
60-80	224.40	N.A.	36.00
70-80	77.89	N.A.	12.50
80-90	10.76	N.A.	1.70
90-110	1.18	N.A.	0.20
90-120	1.69	N.A.	0.30
90-130	2.14	N.A.	0.30
90-150	3.00	N.A.	0.50
90-180	4.15	N.A.	0.70
110-180	2.98	N.A.	0.50
0-180	623.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.71
10-20	25.48
20-30	45.86
30-40	69.92
40-50	99.90
50-60	135.79
60-70	146.52
70-80	77.89
80-90	10.76
90-100	0.60
100-110	0.58
110-120	0.51
120-130	0.45
130-140	0.43
140-150	0.43
150-160	0.51
160-170	0.47
170-180	0.17

IES INDOOR REPORT

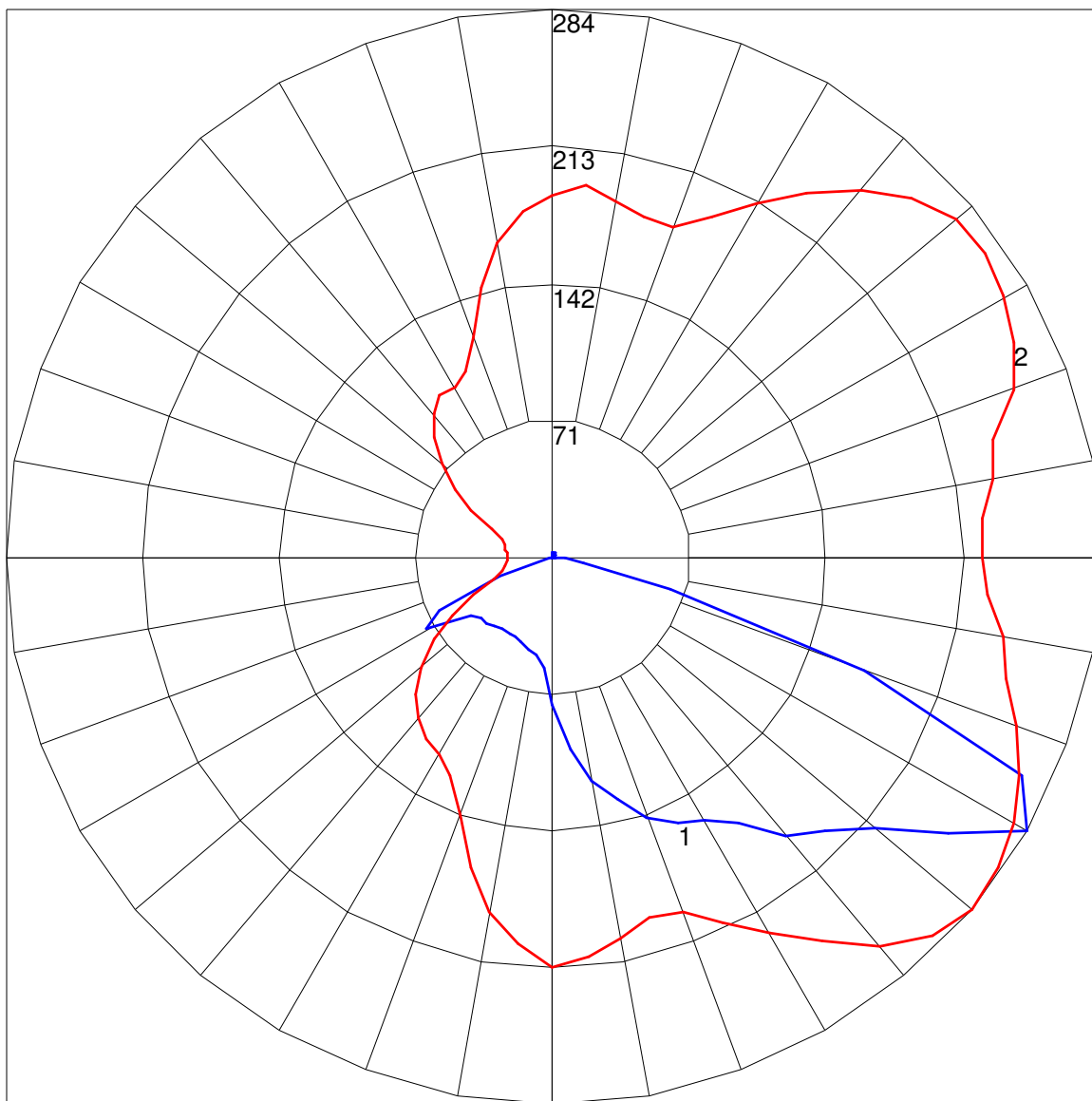
PHOTOMETRIC FILENAME : WPCL-L97-840-BZ-EM6W-DIM-UNV(EM MODE ONLY).IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	106	100	95	90	103	98	93	89	93	89	86	89	86	83	85	83	80	78
2	94	84	75	68	91	82	74	67	78	71	66	74	69	64	71	66	62	60
3	83	71	61	53	81	69	60	52	66	58	51	63	56	50	60	54	49	47
4	75	61	50	42	72	59	49	42	56	48	41	54	46	40	51	45	40	37
5	68	53	42	34	65	51	41	34	49	40	33	47	39	33	45	38	32	30
6	62	46	36	28	59	45	35	28	43	34	28	41	33	27	39	33	27	25
7	57	41	31	24	55	40	31	24	38	30	24	37	29	23	35	28	23	21
8	52	37	27	21	50	36	27	21	35	26	20	33	26	20	32	25	20	18
9	48	33	24	18	47	33	24	18	31	23	18	30	23	18	29	22	17	15
10	45	30	22	16	44	30	21	16	29	21	16	28	21	16	27	20	15	13

POLAR GRAPH



Maximum Candela = 283.561 Located At Horizontal Angle = 320, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)