



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] JBE210303-E  
[TESTLAB] STANDARD-TECH TESTING SERVICES  
[TESTDATE] 20 March 2021  
[ISSUE DATE] 2022-02-18  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] BP-22-LS-8CS-DIM-UNV\_25W\_4000K  
[OTHER] Input Voltage=120.1 PF=0.9935 THD=8.22

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3115
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.54 m
Luminous Width (90-270)	0.54 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3473	3481	3480
55	3356	3374	3374
65	3166	3202	3209
75	2797	2908	2950
85	2068	2154	2308

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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	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171
1	1070.598	1070.311	1070.956	1071.027	1071.242	1070.813	1070.526	1071.171	1070.669	1070.311
2	1070.168	1070.455	1070.741	1069.954	1070.383	1071.099	1070.526	1070.240	1070.240	1069.954
3	1069.524	1069.381	1070.097	1069.238	1070.455	1069.954	1069.166	1069.166	1069.667	1069.381
4	1068.092	1067.734	1068.235	1067.949	1068.808	1068.736	1068.522	1067.448	1067.519	1067.090
5	1067.161	1066.803	1066.660	1066.947	1066.660	1066.803	1066.016	1065.730	1065.801	1065.658
6	1064.942	1064.083	1064.727	1064.584	1065.300	1064.226	1064.369	1064.369	1063.940	1063.725
7	1062.293	1062.365	1062.651	1062.293	1063.653	1062.651	1062.365	1061.434	1061.577	1060.933
8	1059.859	1060.289	1059.573	1059.644	1060.145	1059.716	1058.928	1058.642	1058.427	1057.998
9	1056.637	1056.780	1056.780	1056.065	1057.496	1056.995	1055.492	1055.635	1055.850	1055.062
10	1053.058	1053.058	1053.559	1053.201	1053.487	1053.344	1052.413	1051.626	1051.912	1051.268
11	1049.192	1049.406	1049.693	1049.120	1050.552	1049.335	1048.547	1047.760	1047.688	1046.901
12	1045.540	1045.039	1045.827	1044.824	1046.471	1045.326	1044.610	1043.822	1044.252	1043.035
13	1040.887	1041.173	1040.672	1040.744	1041.531	1040.601	1040.171	1039.025	1039.097	1039.169
14	1036.019	1035.875	1035.804	1036.090	1037.522	1035.732	1035.088	1033.728	1034.801	1033.012
15	1030.935	1030.649	1030.649	1030.721	1032.296	1030.506	1029.289	1028.859	1029.074	1027.857
16	1025.423	1025.638	1024.922	1025.781	1026.497	1024.635	1024.063	1022.989	1022.989	1021.772
17	1019.839	1019.337	1019.624	1018.765	1020.268	1017.977	1017.691	1017.046	1017.404	1015.829
18	1013.324	1013.180	1013.538	1013.037	1014.183	1012.894	1011.677	1010.174	1010.746	1009.243
19	1006.594	1006.880	1007.167	1006.737	1007.668	1005.878	1004.876	1003.587	1004.017	1003.014
20	999.936	999.506	999.578	999.077	1000.365	999.005	997.788	997.001	997.072	994.853
21	992.991	992.490	992.490	992.705	993.850	991.488	990.486	988.911	989.412	988.338
22	985.259	985.331	985.188	984.901	985.760	984.400	982.825	981.107	981.608	980.391
23	977.026	976.955	977.241	977.313	977.742	976.525	974.807	973.160	972.945	972.301
24	968.936	968.793	969.223	968.220	970.153	967.504	966.287	964.927	964.855	963.710
25	959.844	960.130	959.987	960.273	960.918	959.200	958.340	955.978	956.909	954.546
26	952.040	950.752	950.752	950.823	952.899	950.394	948.604	947.244	947.244	945.883
27	941.516	941.230	942.089	942.089	942.805	940.872	939.870	937.937	937.435	936.863
28	931.923	931.708	932.281	931.708	933.784	931.493	930.061	927.341	927.627	926.911
29	922.115	922.258	922.616	922.186	924.119	921.327	920.038	918.392	917.819	916.817
30	911.590	911.734	912.879	912.020	913.523	911.447	909.514	907.939	907.510	906.507
31	901.854	901.281	901.639	901.209	903.500	901.496	898.847	896.914	896.699	895.983
32	890.614	890.399	891.544	891.330	892.404	890.327	888.538	885.960	885.889	885.316
33	879.230	879.445	880.233	879.803	881.450	879.087	876.868	874.863	874.362	873.933
34	867.632	868.492	868.921	868.420	869.852	868.134	865.843	863.337	863.337	862.406
35	855.963	856.607	857.538	857.323	858.182	856.106	853.958	851.309	850.880	850.235
36	844.436	844.794	845.367	845.009	846.155	844.150	841.501	839.067	838.566	838.423
37	832.194	832.767	832.982	832.910	834.127	831.908	829.402	826.180	826.467	825.822
38	819.307	819.594	820.954	820.310	821.312	819.451	816.945	814.224	813.294	812.721
39	807.137	807.065	807.709	807.924	807.996	806.063	804.201	801.123	800.407	800.335
40	793.606	794.178	795.181	794.608	795.467	793.892	790.527	787.234	787.091	786.947
41	780.790	780.719	782.008	781.292	782.079	779.573	777.211	774.132	773.416	773.416
42	766.687	767.259	768.262	767.474	768.548	765.899	763.751	760.673	759.527	759.241
43	753.084	752.941	753.800	753.943	753.800	752.869	749.576	746.498	745.567	745.567
44	738.980	739.052	740.341	739.911	740.555	738.336	735.973	731.964	731.678	731.033
45	724.304	724.948	726.094	725.306	725.950	724.017	720.939	717.574	717.001	716.643
46	709.140	710.472	711.159	710.744	711.403	709.527	706.878	703.048	702.096	702.003
47	694.757	695.201	696.726	695.946	696.705	694.972	691.930	688.021	687.154	686.539
48	679.193	680.568	681.749	681.183	682.322	679.644	677.167	673.043	671.654	671.962
49	664.173	665.247	666.113	665.390	666.450	664.660	661.732	657.143	656.262	655.732
50	648.587	649.396	651.301	650.069	650.742	648.616	645.767	642.216	640.404	640.454
51	633.102	634.197	634.899	634.927	635.207	633.782	629.930	625.857	624.382	623.988
52	617.129	618.318	619.220	618.475	619.370	617.330	614.080	609.555	608.195	608.388
53	601.107	601.844	603.147	602.317	603.620	601.830	597.728	593.547	591.886	592.401

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**CANDELA TABULATION - (Cont.)**

54	584.333	585.750	587.189	586.531	587.239	585.135	581.605	576.916	574.904	575.212
55	567.802	569.141	570.881	570.351	570.830	568.769	564.988	560.693	558.481	559.325
56	551.021	552.861	553.899	553.534	554.192	552.517	548.758	543.589	541.148	542.014
57	534.239	536.065	537.468	536.795	537.991	535.671	532.077	526.457	523.937	525.011
58	517.386	519.004	520.630	519.720	520.995	518.883	514.945	509.318	506.562	507.993
59	499.846	501.600	503.376	502.953	503.727	502.259	497.963	491.985	488.828	490.174
60	482.778	484.504	486.136	485.907	487.167	484.776	480.566	474.681	471.395	472.806
61	465.410	466.935	469.054	468.603	469.706	467.808	463.119	456.833	453.647	454.972
62	447.999	449.946	451.650	451.600	452.223	450.497	445.557	439.057	435.685	437.203
63	430.459	432.442	434.181	434.074	435.040	432.993	427.981	421.187	417.808	419.405
64	412.525	414.930	416.956	416.627	417.651	415.381	410.312	403.618	400.218	401.378
65	394.648	396.889	399.137	398.986	400.053	397.941	392.450	385.885	382.470	383.773
66	376.564	379.062	381.274	381.554	382.527	380.322	374.745	367.786	364.271	365.860
67	358.436	361.028	363.648	363.698	365.187	363.004	357.069	350.053	346.738	347.977
68	340.123	343.130	346.029	346.137	347.461	345.285	339.342	332.262	328.954	330.243
69	322.067	324.859	328.289	328.689	329.756	327.709	321.509	314.378	311.228	312.545
70	304.054	307.033	310.605	311.600	312.495	310.283	303.890	296.995	293.437	294.948
71	285.784	288.798	292.578	293.459	294.762	292.685	286.278	279.104	275.818	277.408
72	267.435	270.642	274.723	275.976	277.393	275.145	268.738	261.972	258.271	259.824
73	249.637	252.522	257.161	258.478	259.703	257.863	251.713	244.375	240.824	242.220
74	231.531	234.502	239.607	241.497	242.807	240.781	234.166	227.400	223.677	225.209
75	213.525	216.912	221.988	224.128	225.231	223.362	216.962	209.867	206.309	207.741
76	195.978	199.028	204.154	206.717	208.077	206.388	199.987	193.257	189.685	191.203
77	178.108	181.237	186.585	189.542	190.666	189.119	183.213	176.541	173.075	174.557
78	161.155	164.062	169.567	172.123	173.011	171.572	166.374	159.931	156.573	157.912
79	144.467	147.102	152.464	154.855	155.986	154.540	150.252	143.658	140.236	141.925
80	128.194	130.786	135.482	137.931	139.169	137.630	133.993	127.593	124.607	125.910
81	112.422	114.956	118.565	120.963	122.767	120.605	117.247	111.749	108.570	110.124
82	96.836	99.321	102.034	104.540	106.122	104.332	100.810	96.321	93.300	94.703
83	81.616	83.921	85.969	88.116	90.293	88.374	84.479	81.100	78.509	79.633
84	67.126	69.376	70.377	72.380	74.707	72.702	69.083	66.576	64.259	65.233
85	53.163	54.746	55.372	56.691	59.329	57.266	53.645	51.729	50.116	50.169
86	39.995	40.803	41.293	42.139	44.633	42.248	39.139	37.433	36.688	36.107
87	26.903	27.203	27.325	27.628	29.748	27.520	24.702	23.395	23.178	22.217
88	14.742	14.815	14.478	14.467	15.770	13.877	12.140	11.166	11.211	10.191
89	3.923	3.941	3.925	3.463	4.299	3.042	2.450	1.694	1.708	1.359
90	0.116	0.176	0.234	0.235	0.000	0.053	0.046	0.014	0.036	0.022
91	0.000	0.116	0.117	0.176	0.000	0.000	0.000	0.000	0.000	0.000
92	0.000	0.000	0.059	0.115	0.000	0.000	0.000	0.000	0.000	0.000
93	0.000	0.000	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.002	0.058	0.117	0.118	0.058	0.117
106	0.000	0.000	0.000	0.000	0.063	0.059	0.236	0.118	0.118	0.118
107	0.059	0.059	0.118	0.060	0.178	0.059	0.178	0.177	0.060	0.118
108	0.060	0.059	0.119	0.118	0.236	0.174	0.292	0.235	0.231	0.233
109	0.118	0.117	0.177	0.126	0.238	0.177	0.295	0.294	0.236	0.178

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**CANDELA TABULATION - (Cont.)**

110	0.118	0.059	0.178	0.355	0.356	0.235	0.353	0.295	0.236	0.235
111	0.118	0.177	0.296	0.474	0.413	0.236	0.412	0.353	0.236	0.236
112	0.121	0.235	0.357	0.593	0.355	0.294	0.413	0.354	0.236	0.294
113	0.235	0.177	0.473	0.711	0.413	0.295	0.413	0.470	0.295	0.354
114	0.177	0.177	0.473	0.830	0.414	0.353	0.528	0.414	0.410	0.412
115	0.178	0.177	0.531	0.944	0.472	0.412	0.473	0.413	0.472	0.355
116	0.295	0.177	0.475	0.886	0.473	0.413	0.587	0.413	0.415	0.354
117	0.236	0.177	0.650	0.886	0.534	0.529	0.591	0.413	0.529	0.354
118	0.236	0.178	0.651	0.886	0.651	0.531	0.708	0.413	0.532	0.354
119	0.236	0.236	0.709	0.886	0.707	0.646	0.709	0.413	0.532	0.354
120	0.239	0.298	0.709	0.886	0.653	0.649	0.709	0.413	0.591	0.354
121	0.418	0.474	0.710	0.886	0.767	0.765	0.709	0.413	0.591	0.354
122	0.712	0.652	0.768	0.886	0.709	0.825	0.709	0.413	0.591	0.354
123	0.826	0.826	0.769	0.886	0.709	0.885	0.709	0.414	0.591	0.413
124	0.768	0.826	0.825	0.886	0.709	0.885	0.709	0.472	0.591	0.413
125	0.768	0.827	0.768	0.886	0.713	0.944	0.709	0.591	0.649	0.472
126	0.770	0.885	0.768	0.886	0.828	0.944	0.709	0.706	0.591	0.708
127	0.827	0.887	0.770	0.886	0.888	0.944	0.709	0.943	0.764	0.766
128	0.827	0.944	0.826	0.886	1.003	0.944	0.709	0.945	0.768	1.003
129	0.827	0.885	0.768	0.888	0.946	0.944	0.709	0.945	0.884	1.003
130	0.827	0.885	0.767	0.945	1.004	0.944	0.709	0.945	0.886	1.003
131	0.827	0.885	0.707	0.945	0.949	1.003	0.709	0.945	0.886	1.003
132	0.827	0.885	0.650	0.945	1.062	1.003	0.709	0.945	0.886	1.003
133	0.828	0.885	0.650	0.945	1.005	1.003	0.709	0.945	0.886	1.003
134	0.886	0.885	0.650	0.945	1.123	1.003	0.709	0.945	0.886	1.003
135	0.886	0.885	0.650	0.945	1.181	1.062	0.709	0.945	0.886	1.003
136	0.886	0.885	0.644	0.945	1.181	1.062	0.709	0.945	0.886	1.003
137	0.886	0.885	0.473	0.945	1.181	1.180	0.709	0.945	0.886	1.003
138	0.886	0.885	0.469	0.945	1.181	1.122	0.709	0.945	0.886	1.003
139	0.886	0.885	0.353	0.945	1.181	1.122	0.709	0.945	0.886	1.003
140	0.886	0.885	0.235	0.945	1.181	1.122	0.709	0.945	0.886	1.003
141	0.886	0.885	0.116	0.945	1.181	1.122	0.709	0.945	0.886	1.003
142	0.886	0.885	0.058	0.945	1.181	1.122	0.709	0.945	0.886	1.003
143	0.888	0.885	0.000	0.944	1.181	1.122	0.709	0.945	0.886	1.003
144	0.945	0.885	0.000	0.886	1.181	1.122	0.709	0.945	0.886	1.003
145	0.885	0.885	0.000	0.886	1.181	1.122	0.826	0.945	0.886	1.003
146	0.827	0.882	0.000	0.885	1.181	1.122	0.769	0.945	0.886	1.003
147	0.827	0.767	0.000	0.768	1.181	1.122	0.884	0.945	0.886	1.003
148	0.827	0.767	0.000	0.825	1.181	1.122	0.886	0.945	0.886	1.003
149	0.827	0.707	0.000	0.766	1.181	1.122	0.886	0.945	0.886	1.003
150	0.827	0.648	0.000	0.708	1.181	1.122	0.945	0.945	0.886	1.003
151	0.827	0.590	0.000	0.650	1.181	1.122	1.003	1.003	0.886	1.003
152	0.827	0.589	0.000	0.650	1.181	1.122	1.004	0.886	0.886	1.003
153	0.827	0.531	0.000	0.650	1.181	1.122	1.004	0.886	0.886	1.003
154	0.827	0.531	0.000	0.648	1.181	1.122	1.004	0.827	0.886	1.003
155	0.827	0.531	0.000	0.591	1.181	1.122	1.004	0.827	0.886	1.003
156	0.827	0.532	0.000	0.589	1.181	1.122	1.004	0.827	0.886	1.003
157	0.827	0.589	0.000	0.532	1.181	1.122	1.004	0.827	0.886	1.003
158	0.827	0.531	0.000	0.532	1.181	1.122	1.004	0.885	0.886	1.003
159	0.827	0.529	0.000	0.530	1.181	1.122	1.004	0.768	0.886	1.003
160	0.827	0.413	0.000	0.472	1.181	1.122	1.004	0.708	0.886	1.003
161	0.827	0.414	0.000	0.472	1.181	1.122	1.004	0.592	0.886	1.003
162	0.827	0.471	0.000	0.472	1.181	1.122	1.004	0.355	0.886	1.003
163	0.827	0.413	0.000	0.472	1.181	1.122	1.004	0.354	0.886	1.003
164	0.827	0.357	0.000	0.474	1.181	1.122	1.004	0.295	0.886	1.003
165	0.828	0.475	0.000	0.532	1.181	1.122	1.004	0.237	0.886	1.003

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

166	0.886	0.708	0.000	0.537	1.181	1.122	1.004	0.236	0.886	1.003
167	0.886	0.709	0.000	0.711	1.182	1.122	1.004	0.177	0.886	1.003
168	0.886	0.769	0.000	0.768	1.238	1.122	1.004	0.177	0.886	1.003
169	0.886	0.828	0.000	0.771	1.122	1.122	1.004	0.177	0.886	1.003
170	0.886	0.944	0.000	0.886	1.122	1.122	1.004	0.177	0.945	1.003
171	0.886	1.003	0.000	0.886	1.122	1.122	1.004	0.177	0.831	1.003
172	0.887	1.003	0.000	0.886	1.122	1.122	1.062	0.177	0.827	1.003
173	0.946	1.003	0.000	0.886	1.122	1.064	1.006	0.177	0.827	1.003
174	1.004	1.003	0.000	0.886	1.122	1.062	1.004	0.236	0.827	1.003
175	1.004	1.003	0.059	0.886	1.122	1.121	0.888	0.178	0.827	1.003
176	1.004	1.003	0.059	0.886	1.122	1.064	0.886	0.118	0.827	1.003
177	1.004	1.003	0.059	0.886	1.122	1.004	0.886	0.177	0.827	1.003
178	1.004	1.003	0.059	0.886	1.122	0.946	0.886	0.001	0.827	1.003
179	1.004	1.003	0.059	0.886	1.122	0.886	0.886	0.059	0.827	1.003
180	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004	1.004

**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	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171	1071.171
1	1071.242	1070.311	1070.669	1071.242	1071.672	1071.027	1070.598
2	1070.168	1070.383	1070.598	1070.598	1070.598	1069.882	1070.168
3	1069.596	1068.880	1069.739	1070.097	1069.810	1069.596	1069.524
4	1068.235	1067.305	1067.591	1068.593	1068.378	1068.665	1068.092
5	1066.231	1066.302	1066.445	1066.517	1066.589	1066.445	1067.161
6	1063.582	1064.011	1064.512	1064.584	1064.441	1065.014	1064.942
7	1062.007	1061.720	1061.864	1062.436	1062.651	1062.150	1062.293
8	1058.069	1059.143	1059.071	1059.644	1059.716	1059.716	1059.859
9	1055.778	1055.635	1055.921	1056.423	1056.351	1056.924	1056.637
10	1052.055	1052.342	1052.628	1052.700	1052.986	1052.914	1053.058
11	1048.404	1047.975	1048.690	1049.192	1049.192	1049.048	1049.192
12	1043.965	1043.965	1044.896	1045.397	1045.397	1045.254	1045.540
13	1039.455	1039.956	1039.670	1039.813	1040.529	1040.601	1040.887
14	1034.157	1034.587	1035.303	1035.446	1035.732	1036.448	1036.019
15	1029.002	1029.146	1030.076	1029.862	1030.792	1030.792	1030.935
16	1023.275	1023.561	1024.421	1024.993	1025.280	1025.065	1025.423
17	1017.261	1017.691	1018.192	1017.977	1019.266	1018.908	1019.839
18	1010.746	1011.033	1012.465	1012.465	1012.751	1012.751	1013.324
19	1004.375	1004.661	1005.735	1005.520	1006.522	1006.236	1006.594
20	996.857	997.573	998.647	998.432	998.934	998.790	999.936
21	989.269	990.342	991.488	991.273	991.989	992.204	992.991
22	982.181	982.825	983.899	983.899	984.114	984.257	985.259
23	973.375	974.162	975.523	975.666	976.239	976.095	977.026
24	965.070	966.359	967.648	967.146	968.220	968.363	968.936
25	956.837	957.625	958.484	958.770	959.271	959.558	959.844
26	947.673	948.389	949.320	949.177	950.465	950.394	952.040
27	938.366	939.225	939.726	940.585	940.943	940.872	941.516
28	928.773	928.987	930.419	930.992	931.350	931.493	931.923
29	918.320	919.609	921.255	920.683	922.043	921.900	922.115
30	908.369	910.230	910.946	910.946	911.376	911.948	911.590
31	897.200	898.346	899.563	900.780	900.422	900.637	901.854
32	886.748	887.965	889.039	889.397	890.256	890.041	890.614
33	875.508	876.725	877.799	878.157	878.658	878.944	879.230
34	864.053	865.485	866.559	866.773	867.489	867.274	867.632
35	852.312	853.600	854.603	855.247	856.249	856.178	855.963
36	840.212	841.143	842.002	843.148	844.078	843.720	844.436

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

37	827.397	829.116	830.404	830.905	831.836	832.122	832.194
38	814.725	815.942	817.589	818.233	818.878	819.808	819.307
39	802.555	803.772	804.631	805.705	806.277	806.349	807.137
40	788.737	790.384	791.386	792.818	793.391	793.176	793.606
41	775.135	776.495	778.571	779.287	779.717	780.218	780.790
42	761.532	763.465	764.825	765.684	765.971	766.114	766.687
43	747.715	749.719	750.650	751.724	752.654	752.798	753.084
44	733.754	735.043	736.618	737.620	738.264	738.050	738.980
45	719.221	721.082	721.440	723.230	723.803	724.304	724.304
46	704.630	706.191	707.236	708.582	709.549	709.055	709.140
47	689.195	691.099	692.474	694.077	694.557	694.034	694.757
48	674.532	676.745	677.468	678.434	679.508	679.014	679.193
49	659.104	661.431	661.331	663.350	664.459	663.242	664.173
50	643.597	645.416	646.325	647.950	648.931	648.136	648.587
51	627.525	630.381	630.646	632.028	633.617	632.422	633.102
52	611.681	613.750	614.552	616.306	617.566	617.044	617.129
53	595.501	597.907	598.823	600.248	601.293	600.577	601.107
54	579.271	581.398	581.827	583.882	584.984	584.612	584.333
55	562.418	564.938	565.812	567.358	568.203	567.852	567.802
56	546.059	548.830	548.959	551.114	551.665	551.193	551.021
57	529.042	531.411	532.249	533.846	534.884	534.562	534.239
58	511.910	514.609	515.010	516.964	518.081	517.386	517.386
59	494.978	497.985	498.550	500.082	500.956	500.133	499.846
60	477.674	480.817	481.454	482.850	484.067	483.251	482.778
61	459.948	463.627	463.699	465.790	466.606	465.532	465.410
62	442.393	445.958	446.588	448.500	449.209	448.443	447.999
63	424.645	428.504	429.177	430.888	432.241	430.795	430.459
64	406.947	411.286	412.016	413.842	414.543	413.169	412.525
65	389.150	393.961	394.390	396.402	397.025	395.292	394.648
66	371.344	376.213	376.700	378.668	378.833	377.544	376.564
67	353.940	358.708	359.073	360.992	361.264	359.403	358.436
68	335.927	341.104	341.583	343.280	343.638	341.390	340.123
69	318.323	323.449	324.072	326.012	325.647	323.227	322.067
70	300.647	306.116	306.804	308.422	308.336	305.257	304.054
71	283.092	288.526	289.084	290.523	290.008	287.352	285.784
72	265.495	271.100	271.580	272.919	272.332	269.067	267.435
73	248.047	253.961	254.147	255.414	254.605	251.126	249.637
74	230.794	236.593	236.650	238.175	237.108	233.156	231.531
75	213.540	219.267	219.339	220.806	219.661	215.380	213.525
76	196.973	202.078	201.784	203.338	201.770	197.646	195.978
77	179.913	184.609	183.671	185.876	184.308	180.306	178.108
78	163.181	167.269	166.310	168.236	167.076	163.010	161.155
79	146.830	149.951	149.035	151.032	150.023	146.214	144.467
80	130.456	133.370	132.339	133.714	132.862	130.234	128.194
81	113.840	116.510	116.066	117.040	116.109	114.105	112.422
82	97.316	100.187	99.643	100.402	99.643	98.512	96.836
83	81.279	84.100	83.900	84.279	83.334	83.191	81.616
84	65.938	68.815	68.292	68.683	67.915	68.478	67.126
85	50.675	53.325	53.343	53.178	52.867	53.775	53.163
86	36.401	38.760	38.975	38.697	38.771	39.643	39.995
87	22.200	24.032	24.600	24.448	25.004	26.083	26.903
88	10.264	11.235	11.458	11.670	12.444	13.735	14.742
89	1.409	1.615	1.117	1.621	2.260	2.989	3.923
90	0.029	0.029	0.190	0.175	0.293	0.118	0.116
91	0.000	0.000	0.119	0.059	0.176	0.000	0.000
92	0.000	0.000	0.002	0.058	0.117	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

93	0.000	0.000	0.000	0.000	0.059	0.000	0.000
94	0.000	0.000	0.000	0.000	0.058	0.000	0.000
95	0.000	0.000	0.000	0.000	0.001	0.000	0.000
96	0.000	0.000	0.000	0.000	0.059	0.000	0.000
97	0.000	0.000	0.000	0.000	0.059	0.000	0.000
98	0.000	0.000	0.000	0.000	0.059	0.000	0.000
99	0.000	0.000	0.000	0.000	0.059	0.059	0.000
100	0.000	0.000	0.000	0.000	0.059	0.059	0.000
101	0.000	0.000	0.000	0.000	0.059	0.059	0.000
102	0.000	0.000	0.000	0.000	0.059	0.059	0.000
103	0.058	0.000	0.000	0.000	0.059	0.059	0.000
104	0.059	0.116	0.000	0.000	0.059	0.059	0.000
105	0.175	0.176	0.000	0.002	0.059	0.059	0.000
106	0.119	0.236	0.000	0.059	0.059	0.059	0.000
107	0.292	0.294	0.058	0.060	0.060	0.059	0.059
108	0.295	0.295	0.117	0.119	0.118	0.059	0.060
109	0.353	0.353	0.177	0.238	0.120	0.059	0.118
110	0.412	0.412	0.292	0.295	0.177	0.059	0.118
111	0.414	0.413	0.238	0.355	0.177	0.059	0.118
112	0.471	0.413	0.353	0.474	0.178	0.059	0.121
113	0.473	0.472	0.470	0.590	0.238	0.059	0.235
114	0.473	0.530	0.708	0.590	0.354	0.059	0.177
115	0.473	0.589	0.709	0.708	0.354	0.059	0.178
116	0.587	0.648	0.766	0.709	0.354	0.059	0.295
117	0.591	0.650	0.768	0.767	0.354	0.059	0.236
118	0.591	0.650	0.825	0.767	0.356	0.059	0.236
119	0.591	0.707	0.827	0.767	0.474	0.059	0.236
120	0.591	0.768	0.827	0.769	0.532	0.237	0.239
121	0.591	0.768	0.827	0.885	0.591	0.531	0.418
122	0.591	0.825	0.827	0.826	0.651	0.650	0.712
123	0.591	0.827	0.827	0.826	0.708	0.709	0.826
124	0.591	0.827	0.827	0.826	0.650	0.768	0.768
125	0.591	0.827	0.827	0.826	0.650	0.768	0.768
126	0.591	0.827	0.827	0.826	0.650	0.768	0.770
127	0.591	0.827	0.827	0.826	0.650	0.770	0.827
128	0.591	0.827	0.827	0.826	0.650	0.885	0.827
129	0.591	0.827	0.827	0.826	0.650	0.827	0.827
130	0.591	0.827	0.827	0.826	0.650	0.827	0.827
131	0.591	0.827	0.827	0.826	0.650	0.827	0.827
132	0.591	0.827	0.827	0.826	0.650	0.827	0.827
133	0.591	0.827	0.827	0.826	0.650	0.827	0.828
134	0.591	0.827	0.827	0.826	0.650	0.827	0.886
135	0.591	0.827	0.827	0.826	0.649	0.827	0.886
136	0.591	0.827	0.827	0.826	0.587	0.827	0.886
137	0.591	0.827	0.827	0.826	0.473	0.827	0.886
138	0.591	0.827	0.827	0.826	0.470	0.827	0.886
139	0.591	0.827	0.827	0.826	0.354	0.827	0.886
140	0.591	0.827	0.827	0.826	0.295	0.827	0.886
141	0.591	0.827	0.886	0.826	0.292	0.827	0.886
142	0.649	0.827	0.828	0.826	0.176	0.827	0.886
143	0.650	0.827	0.944	0.826	0.118	0.827	0.888
144	0.650	0.827	0.887	0.826	0.118	0.827	0.945
145	0.650	0.827	0.886	0.827	0.058	0.827	0.885
146	0.708	0.827	0.886	0.882	0.000	0.827	0.827
147	0.709	0.827	0.886	0.767	0.000	0.827	0.827
148	0.768	0.827	0.886	0.764	0.000	0.768	0.827

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**CANDELA TABULATION - (Cont.)**

149	0.768	0.827	0.886	0.650	0.000	0.709	0.827
150	0.885	0.827	0.886	0.705	0.000	0.708	0.827
151	0.944	0.827	0.886	0.590	0.000	0.650	0.827
152	1.003	0.827	0.886	0.531	0.000	0.650	0.827
153	1.004	0.827	0.945	0.531	0.000	0.708	0.827
154	1.004	0.769	0.830	0.531	0.000	0.650	0.827
155	1.004	0.709	0.768	0.533	0.000	0.591	0.827
156	1.004	0.709	0.768	0.589	0.000	0.591	0.827
157	1.004	0.535	0.768	0.530	0.000	0.591	0.827
158	1.004	0.417	0.652	0.472	0.000	0.591	0.827
159	1.004	0.355	0.650	0.471	0.000	0.591	0.827
160	1.004	0.237	0.650	0.413	0.000	0.592	0.827
161	1.004	0.236	0.650	0.413	0.000	0.649	0.827
162	1.004	0.178	0.650	0.413	0.000	0.531	0.827
163	1.004	0.177	0.650	0.413	0.000	0.531	0.827
164	1.004	0.177	0.708	0.413	0.000	0.531	0.827
165	1.004	0.177	0.709	0.414	0.000	0.531	0.828
166	1.004	0.177	0.709	0.532	0.000	0.591	0.886
167	1.004	0.177	0.766	0.592	0.000	0.650	0.886
168	1.004	0.177	0.886	0.710	0.000	0.885	0.886
169	1.004	0.177	0.886	0.768	0.000	0.827	0.886
170	1.004	0.177	0.886	0.826	0.000	0.827	0.886
171	1.004	0.177	0.886	0.826	0.000	0.827	0.886
172	1.004	0.177	0.886	0.826	0.000	0.827	0.887
173	1.004	0.119	0.886	0.826	0.000	0.827	0.946
174	1.004	0.118	0.886	0.826	0.000	0.827	1.004
175	1.004	0.118	0.886	0.826	0.000	0.827	1.004
176	1.004	0.118	0.886	0.826	0.000	0.827	1.004
177	1.004	0.118	0.886	0.826	0.000	0.827	1.004
178	1.004	0.061	0.886	0.827	0.000	0.827	1.004
179	1.004	0.059	0.886	0.887	0.000	0.827	1.004
180	1.004	1.004	1.004	1.004	1.004	1.004	1.004



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	392.09	N.A.	12.60
0-30	833.85	N.A.	26.80
0-40	1368.47	N.A.	43.90
0-60	2431.16	N.A.	78.10
0-80	3049.96	N.A.	97.90
0-90	3111.73	N.A.	99.90
10-90	3010.37	N.A.	96.70
20-40	976.38	N.A.	31.30
20-50	1533.33	N.A.	49.20
40-70	1452.03	N.A.	46.60
60-80	618.80	N.A.	19.90
70-80	229.46	N.A.	7.40
80-90	61.77	N.A.	2.00
90-110	0.10	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	1.20	N.A.	0.00
90-150	2.35	N.A.	0.10
90-180	2.94	N.A.	0.10
110-180	2.84	N.A.	0.10
0-180	3114.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.36
10-20	290.72
20-30	441.76
30-40	534.62
40-50	556.94
50-60	505.75
60-70	389.34
70-80	229.46
80-90	61.77
90-100	0.02
100-110	0.08
110-120	0.43
120-130	0.67
130-140	0.65
140-150	0.50
150-160	0.34
160-170	0.19
170-180	0.07

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV\_25W\_4000K.IES**

**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	16.5	18.1	16.8	18.4	18.7	16.5	18.1	16.8	18.4	18.8
	3H	18.3	19.8	18.7	20.1	20.5	18.4	19.9	18.7	20.2	20.5
	4H	19.0	20.4	19.4	20.8	21.1	19.1	20.5	19.5	20.9	21.2
	6H	19.5	20.8	19.9	21.2	21.6	19.7	21.0	20.1	21.3	21.7
	8H	19.7	20.9	20.1	21.3	21.7	19.9	21.1	20.3	21.5	21.9
	12H	19.8	21.0	20.2	21.3	21.8	20.0	21.2	20.4	21.5	22.0

UGR Viewed Endwise

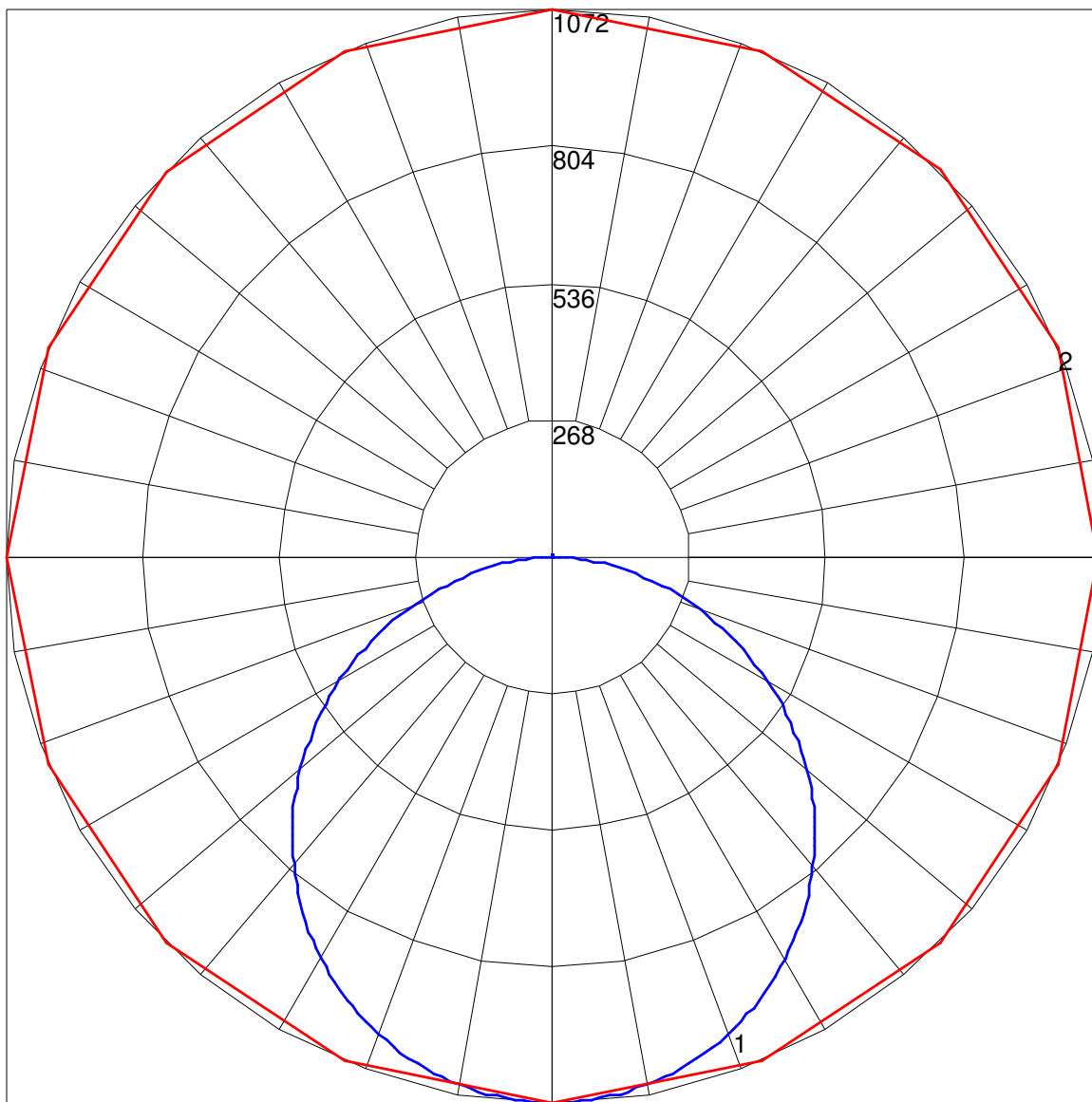
4H	2H	17.1	18.5	17.5	18.9	19.2	17.1	18.5	17.5	18.9	19.3
	3H	19.2	20.4	19.6	20.8	21.2	19.2	20.4	19.6	20.8	21.2
	4H	20.0	21.1	20.4	21.5	21.9	20.1	21.2	20.5	21.6	22.0
	6H	20.6	21.6	21.1	22.0	22.5	20.8	21.8	21.3	22.2	22.6
	8H	20.9	21.7	21.3	22.2	22.6	21.1	21.9	21.5	22.4	22.8
	12H	21.0	21.8	21.5	22.3	22.7	21.2	22.0	21.7	22.5	23.0

8H	4H	20.4	21.2	20.8	21.7	22.1	20.5	21.3	20.9	21.8	22.2
	6H	21.1	21.8	21.6	22.3	22.8	21.3	22.0	21.7	22.5	23.0
	8H	21.4	22.1	21.9	22.6	23.0	21.6	22.2	22.1	22.7	23.2
	12H	21.6	22.2	22.1	22.7	23.2	21.8	22.4	22.3	22.9	23.5

12H	4H	20.4	21.2	20.9	21.7	22.1	20.5	21.3	21.0	21.7	22.2
	6H	21.2	21.9	21.7	22.3	22.9	21.3	22.0	21.9	22.5	23.0
	8H	21.5	22.1	22.0	22.6	23.2	21.7	22.3	22.2	22.8	23.3

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1071.672 Located At Horizontal Angle = 315, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)