



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-8A-6500°K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] -  
 [TESTLAB] BEGHELLI  
 [TESTDATE] 2017/2/14  
 [ISSUEDATE] 2017/2/14 15:09:47  
 [NEARFIELD]  
 [LAMPPOSITION] "0,0"  
 [OTHER]  
 [MANUFAC] BEGHELLI  
 [LUMCAT] BLS-8A - 6500°K  
 [BALLAST] -  
 [BALLASTCAT] -

### CHARACTERISTICS

Lumens Per Lamp	6404.3 (1 lamp)
Total Lamp Lumens	6404.3
Luminaire Lumens	6404
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.46
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>0.0</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	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722
1	2182.134	2182.710	2189.691	2190.005	2195.130	2194.040	2190.781	2186.358	2185.142	2175.279
2	2176.621	2178.738	2189.051	2183.800	2190.078	2190.141	2180.855	2172.072	2171.055	2161.633
3	2169.840	2169.001	2177.334	2166.119	2176.684	2175.981	2164.138	2145.241	2147.746	2144.601
4	2164.138	2158.499	2165.354	2151.005	2157.608	2162.597	2149.150	2113.473	2126.155	2122.633
5	2160.805	2152.923	2156.833	2141.342	2148.637	2160.166	2132.244	2085.038	2101.503	2111.754
6	2152.221	2148.825	2156.319	2138.197	2151.707	2164.589	2121.354	2056.414	2052.956	2080.049
7	2140.765	2142.170	2162.471	2137.495	2164.840	2182.836	2109.637	2001.976	1982.638	2021.638
8	2135.064	2139.476	2172.460	2137.432	2183.025	2213.451	2079.661	1956.059	1930.055	1970.407
9	2132.884	2139.476	2178.927	2136.342	2199.553	2220.819	2029.069	1926.282	1899.514	1934.090
10	2135.001	2145.367	2183.863	2137.432	2219.530	2210.055	1968.803	1893.812	1886.381	1895.604
11	2139.738	2153.059	2187.123	2142.557	2232.023	2183.601	1910.718	1851.731	1842.319	1838.986
12	2150.555	2159.652	2190.005	2145.943	2225.557	2144.790	1862.107	1797.229	1786.350	1768.480
13	2156.644	2161.256	2189.753	2147.096	2215.820	2095.351	1823.233	1751.700	1752.214	1728.327
14	2161.444	2167.785	2189.753	2148.186	2203.389	2054.171	1793.582	1718.203	1720.058	1702.775
15	2162.534	2178.036	2179.314	2144.539	2186.421	2026.764	1786.413	1691.434	1687.724	1685.858
16	2162.597	2187.699	2166.632	2144.151	2163.299	2023.556	1771.813	1673.564	1654.164	1668.502
17	2174.451	2193.726	2156.319	2145.628	2141.405	2029.897	1730.633	1659.090	1618.298	1648.274
18	2193.338	2198.138	2147.232	2148.898	2121.742	2032.339	1696.748	1643.211	1584.161	1626.368
19	2207.299	2203.326	2140.503	2158.625	2109.637	2027.277	1678.815	1626.368	1547.017	1597.807
20	2214.918	2203.075	2140.115	2167.660	2109.637	2011.461	1666.972	1602.157	1505.711	1561.302
21	2225.934	2197.247	2139.738	2170.353	2109.375	1990.772	1659.289	1563.409	1450.382	1518.519
22	2230.546	2192.824	2124.750	2169.389	2115.464	1983.603	1649.489	1516.915	1380.379	1468.818
23	2231.636	2191.231	2108.358	2169.703	2149.789	1988.403	1638.149	1464.342	1303.585	1415.606
24	2218.000	2186.169	2098.359	2176.621	2177.648	2001.536	1627.584	1406.320	1215.471	1354.439
25	2182.448	2182.385	2084.021	2181.432	2174.640	2012.101	1614.839	1346.054	1115.430	1290.851
26	2148.825	2174.829	2078.508	2195.392	2174.378	2012.928	1599.789	1275.412	1008.157	1227.703
27	2111.492	2158.499	2076.590	2192.311	2176.495	2006.074	1582.883	1203.680	908.378	1172.499
28	2076.527	2137.044	2074.022	2162.922	2175.342	1992.627	1565.274	1139.515	818.786	1124.653
29	2040.535	2108.547	2069.285	2142.421	2166.957	1982.062	1545.287	1079.826	740.713	1070.603
30	2011.776	2074.347	2064.548	2133.135	2145.566	1979.117	1531.002	1023.208	669.306	1012.454
31	1984.682	2038.104	2056.477	2121.617	2139.801	1977.775	1521.915	972.553	607.888	954.494
32	1957.536	1997.364	2047.579	2110.339	2141.908	1981.548	1521.915	919.718	568.374	904.028
33	1928.389	1957.474	2035.085	2111.104	2154.852	2003.580	1522.617	869.567	535.715	857.398
34	1905.918	1922.886	2021.764	2132.244	2155.491	2027.791	1522.292	825.704	508.370	815.202
35	1881.769	1893.812	2001.976	2157.220	2145.943	2037.203	1521.915	782.092	486.853	774.211
36	1850.578	1863.585	1993.968	2171.883	2129.750	2036.878	1521.464	744.172	466.803	735.976
37	1813.569	1830.853	1986.736	2169.001	2117.068	2039.257	1517.691	707.730	451.689	695.121
38	1768.155	1795.060	1976.874	2148.060	2106.367	2047.254	1505.009	673.341	437.278	651.824
39	1701.622	1746.963	1960.157	2124.363	2098.359	2055.712	1488.292	639.980	421.787	615.958
40	1630.592	1693.227	1940.117	2113.609	2091.767	2057.567	1464.531	606.735	409.168	580.417
41	1570.389	1635.906	1921.545	2117.005	2083.246	2053.081	1440.645	576.256	395.144	550.955
42	1509.421	1567.318	1900.667	2130.966	2072.744	2041.049	1416.947	550.127	381.624	525.916
43	1455.633	1505.449	1874.150	2132.622	2062.367	2029.834	1397.799	528.735	370.168	509.974
44	1410.732	1440.897	1839.122	2127.821	2055.010	2016.450	1385.441	509.974	360.945	496.716
45	1376.983	1382.999	1793.771	2120.652	2048.155	2004.544	1371.093	495.877	353.126	483.971
46	1352.259	1337.344	1747.728	2118.598	2038.167	1985.395	1357.960	485.889	346.271	472.442
47	1350.466	1301.604	1702.513	2124.048	2029.772	1965.219	1343.748	475.575	339.616	462.830
48	1376.658	1287.004	1649.489	2129.551	2018.242	1948.953	1329.463	466.677	331.797	458.607
49	1475.033	1284.572	1577.883	2131.856	2002.814	1930.894	1315.250	459.120	326.420	452.905
50	1618.874	1304.874	1497.127	2131.542	1994.293	1911.996	1297.380	455.022	323.024	448.419
51	1593.259	1423.226	1441.924	2127.633	1987.439	1889.012	1269.260	452.391	318.350	445.159
52	1384.152	1537.993	1405.607	2123.849	1982.764	1850.840	1232.377	449.897	317.648	439.395
53	1184.343	1466.837	1393.061	2121.166	1985.332	1807.480	1183.892	446.564	317.260	431.199

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54	951.612	1260.236	1391.007	2113.347	1994.545	1755.410	1124.779	443.105	317.648	421.462
55	772.093	1085.779	1389.917	2105.413	1999.733	1701.748	1062.469	436.125	318.036	411.725
56	665.334	912.990	1401.509	2112.833	1986.548	1645.580	1000.537	422.426	319.566	401.800
57	594.126	803.610	1459.532	2092.668	1943.188	1582.495	941.047	407.501	323.224	384.317
58	549.351	725.023	1430.520	2065.826	1884.715	1509.809	883.339	386.235	327.322	366.898
59	511.766	683.141	1333.498	2021.963	1811.704	1441.473	833.575	366.835	336.734	354.342
60	483.520	644.843	1223.982	1954.392	1734.532	1377.811	797.007	353.639	345.569	347.487
61	461.426	614.679	1111.395	1871.330	1642.572	1318.059	758.908	346.271	355.495	346.408
62	440.862	584.966	1035.701	1738.693	1550.475	1263.694	706.776	342.949	355.054	341.922
63	424.984	553.711	990.161	1622.144	1457.163	1208.994	634.017	337.184	351.721	327.322
64	403.215	526.555	957.439	1537.793	1397.861	1143.613	555.828	324.377	341.796	305.165
65	382.777	502.732	932.652	1408.940	1385.117	1060.740	482.178	305.668	325.592	283.899
66	357.863	478.269	918.503	1290.976	1412.147	977.102	419.030	286.330	321.746	270.253
67	353.451	464.885	908.828	1190.746	1388.963	899.092	385.344	272.495	327.573	271.919
68	341.020	452.528	890.445	1137.209	1280.411	823.712	370.608	269.550	332.311	280.252
69	335.329	437.666	873.088	1159.104	1149.378	734.823	340.894	269.163	323.412	278.449
70	322.647	418.192	829.100	1107.747	1004.960	658.930	300.103	259.373	299.526	260.966
71	310.279	405.835	760.313	1004.321	876.484	592.900	262.832	231.316	271.154	232.793
72	302.723	386.435	681.349	901.460	797.583	534.175	233.684	204.872	244.836	219.346
73	287.808	373.428	609.365	765.501	815.003	483.834	217.166	201.665	211.213	226.065
74	278.071	362.223	544.677	632.224	842.610	423.066	202.881	215.437	168.304	242.782
75	271.343	342.949	495.751	530.077	779.210	356.773	193.794	230.551	131.474	231.127
76	271.668	321.872	457.779	507.469	669.946	301.130	185.335	217.292	127.826	187.316
77	268.083	291.644	433.442	525.339	572.346	268.722	169.708	171.564	137.364	130.069
78	206.402	273.009	406.086	492.680	518.747	243.746	152.478	118.352	134.995	88.051
79	145.948	257.644	377.463	425.812	445.474	206.916	131.799	85.169	118.855	79.090
80	107.462	232.469	339.490	347.173	339.354	171.375	116.234	84.079	99.769	84.655
81	102.588	179.760	294.212	300.993	345.695	147.164	116.486	93.176	86.133	84.791
82	108.415	136.599	254.625	298.436	356.134	131.086	111.748	88.502	73.901	77.874
83	62.697	96.383	227.668	255.852	282.170	116.685	102.588	72.874	35.028	65.506
84	31.883	91.384	212.366	207.943	205.574	97.788	82.800	54.627	9.286	55.004
85	25.479	71.910	183.732	199.485	147.290	71.533	54.113	48.087	0.000	48.600
86	17.734	37.396	147.363	175.599	111.748	49.114	34.388	47.196	0.000	35.855
87	11.204	25.416	116.423	121.936	84.466	34.325	24.012	37.396	0.000	22.157
88	6.718	19.977	94.329	90.294	67.686	28.435	21.895	22.859	0.000	14.275
89	2.620	13.699	79.153	83.439	58.725	27.659	20.291	13.887	0.000	9.726
90	0.000	8.133	53.988	68.965	50.015	22.670	13.447	6.467	0.000	0.702
91	0.000	2.557	35.090	45.529	37.721	14.338	5.827	0.000	0.000	0.000
92	0.000	0.063	14.663	27.209	26.831	7.295	0.000	0.000	0.000	0.000
93	0.000	0.000	4.350	13.887	15.365	0.702	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	2.945	5.691	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	0.314	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.314	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	1.017	0.702	0.314	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.702	0.314	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.702	1.079	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.702	0.702	0.702	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.702	0.702	0.702	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.702	0.702	1.079	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.314
106	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

110	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.314
124	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.000	0.000	0.702
125	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.314	0.000	0.702
126	0.000	0.000	0.000	0.000	1.017	0.702	1.079	1.017	0.000	0.702
127	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.702
128	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.702
129	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.702
130	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
131	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
132	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
133	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
134	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
135	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
136	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
137	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
138	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
139	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
140	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
141	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
142	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
143	0.000	0.000	0.000	0.000	1.017	0.702	1.079	0.702	0.000	0.314
144	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.000	0.702
145	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
146	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
147	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
148	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
149	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
150	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
151	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
152	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.314
153	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
154	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
155	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
156	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
157	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
158	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
159	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
160	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
161	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
162	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
163	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
164	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
165	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-8A-6500°K.IES**

**CANDELA TABULATION - (Cont.)**

166	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
167	0.000	0.000	0.000	0.000	1.017	0.702	0.702	0.702	0.314	0.000
168	0.000	0.000	0.000	0.000	0.702	0.702	0.702	0.702	0.314	0.000
169	0.000	0.000	0.000	0.000	0.702	0.702	0.702	0.702	0.314	0.000
170	0.000	0.000	0.000	0.000	0.702	0.702	0.702	0.702	0.314	0.000
171	0.000	0.000	0.000	0.000	0.702	0.702	0.314	0.702	0.314	0.000
172	0.000	0.000	0.314	0.000	0.702	0.702	0.314	0.702	0.314	0.000
173	0.000	0.000	0.314	0.000	0.702	0.702	0.314	0.702	0.314	0.000
174	0.000	0.000	0.314	0.000	1.017	0.702	0.314	0.702	0.314	0.000
175	0.000	0.000	0.314	0.000	0.314	0.702	0.314	0.702	0.000	0.000
176	0.000	0.000	0.314	0.000	0.314	0.702	0.314	0.702	0.000	0.000
177	0.000	0.000	0.314	0.000	0.314	0.702	0.314	0.702	0.000	0.000
178	0.000	0.000	0.314	0.702	0.314	0.702	0.314	0.702	0.000	0.000
179	0.000	0.314	0.314	0.702	0.314	0.702	0.314	0.702	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722	2183.722
1	2166.381	2157.346	2147.033	2153.185	2163.237	2174.378	2182.134
2	2157.032	2146.394	2136.856	2137.170	2150.942	2167.911	2176.621
3	2143.061	2148.123	2136.080	2135.640	2145.052	2162.534	2169.840
4	2143.061	2167.471	2145.440	2129.938	2137.946	2153.950	2164.138
5	2142.557	2189.303	2165.029	2125.641	2136.342	2151.393	2160.805
6	2134.351	2210.957	2180.017	2136.405	2148.123	2160.553	2152.221
7	2105.025	2222.224	2196.734	2150.052	2164.452	2175.919	2140.765
8	2041.751	2214.279	2209.353	2156.256	2179.828	2187.573	2135.064
9	1969.893	2191.420	2219.918	2165.605	2191.871	2198.788	2132.884
10	1903.549	2154.076	2223.188	2176.558	2197.824	2201.660	2135.001
11	1848.335	2104.962	2222.161	2181.432	2198.715	2201.345	2139.738
12	1810.111	2055.586	2212.424	2182.962	2192.185	2201.660	2150.555
13	1792.241	2035.222	2193.914	2178.549	2187.322	2204.930	2156.644
14	1792.691	2038.481	2180.855	2174.829	2178.036	2207.561	2161.444
15	1778.343	2052.190	2163.237	2175.153	2172.460	2209.416	2162.534
16	1734.668	2054.811	2141.268	2183.863	2168.299	2209.028	2162.597
17	1697.901	2041.688	2127.056	2194.680	2159.977	2203.201	2174.451
18	1677.086	2017.090	2133.397	2199.868	2156.455	2196.346	2193.338
19	1672.411	1982.125	2147.672	2198.138	2166.894	2192.122	2207.299
20	1670.881	1957.788	2165.165	2191.934	2178.350	2192.122	2214.918
21	1666.458	1950.996	2193.789	2196.923	2188.087	2201.660	2225.934
22	1659.928	1951.133	2211.659	2206.209	2198.914	2212.361	2230.546
23	1647.886	1959.130	2219.341	2218.188	2201.345	2216.270	2231.636
24	1634.564	1961.372	2207.624	2231.185	2195.455	2213.514	2218.000
25	1617.973	1960.796	2198.526	2235.094	2173.613	2199.616	2182.448
26	1598.248	1955.807	2191.671	2252.388	2159.589	2175.667	2148.825
27	1576.091	1953.952	2191.934	2262.439	2147.934	2140.503	2111.492
28	1557.718	1956.509	2193.024	2263.917	2147.484	2104.061	2076.527
29	1541.063	1956.184	2196.283	2253.352	2157.095	2066.853	2040.535
30	1533.119	1959.203	2195.329	2243.867	2162.283	2018.379	2011.776
31	1528.769	1978.153	2194.942	2245.795	2152.735	1975.396	1984.682
32	1529.922	1998.266	2194.554	2280.309	2135.577	1930.894	1957.536
33	1533.507	2016.576	2186.871	2319.309	2116.932	1892.911	1928.389
34	1533.507	2036.563	2176.757	2333.532	2100.476	1856.280	1905.918
35	1531.903	2049.245	2164.264	2329.560	2084.723	1827.782	1881.769
36	1525.048	2052.704	2150.492	2289.344	2076.401	1808.245	1850.578

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

37	1517.554	2057.378	2142.872	2250.722	2068.845	1783.719	1813.569
38	1500.712	2056.540	2138.323	2224.079	2056.676	1761.563	1768.155
39	1472.025	2049.182	2133.974	2210.118	2042.139	1728.003	1701.622
40	1442.112	2033.870	2129.938	2202.949	2021.764	1682.850	1630.592
41	1422.198	2019.081	2129.813	2191.032	1998.580	1630.655	1570.389
42	1402.924	2007.426	2130.190	2183.025	1975.973	1570.012	1509.421
43	1386.144	1994.618	2122.570	2180.017	1957.086	1513.519	1455.633
44	1375.830	1978.603	2111.041	2180.342	1938.251	1454.407	1410.732
45	1366.995	1964.192	2099.585	2180.017	1909.439	1406.959	1376.983
46	1354.952	1948.313	2086.903	2192.573	1849.561	1367.571	1352.259
47	1334.011	1932.623	2075.049	2204.479	1792.880	1331.255	1350.466
48	1304.423	1919.490	2064.359	2218.639	1736.136	1310.439	1376.658
49	1267.667	1904.828	2061.089	2234.906	1682.211	1298.470	1475.033
50	1229.872	1878.824	2061.026	2249.831	1635.330	1314.097	1618.874
51	1185.810	1841.554	2062.504	2268.078	1600.040	1449.543	1593.259
52	1134.841	1803.445	2064.673	2281.651	1596.330	1561.103	1384.152
53	1075.665	1758.806	2053.218	2293.694	1597.671	1468.692	1184.343
54	1011.427	1704.567	2019.783	2294.658	1575.714	1272.656	951.612
55	949.495	1642.635	1976.109	2272.501	1539.722	1116.331	772.093
56	893.715	1572.506	1916.870	2224.341	1548.169	957.565	665.334
57	847.473	1501.225	1846.029	2156.518	1595.690	851.193	594.126
58	808.798	1438.591	1743.693	2083.057	1563.671	774.336	549.351
59	772.481	1375.956	1632.133	1994.681	1456.335	721.051	511.766
60	728.105	1310.953	1543.107	1872.997	1354.439	682.313	483.520
61	668.604	1231.224	1510.836	1709.179	1257.227	650.996	461.426
62	592.460	1137.272	1530.750	1596.204	1204.131	620.894	440.862
63	510.288	1048.184	1577.055	1557.393	1179.605	596.432	424.984
64	440.999	972.490	1588.521	1538.118	1156.033	575.742	403.215
65	396.800	899.029	1532.605	1549.773	1119.853	556.656	382.777
66	374.518	822.245	1426.747	1555.087	1081.293	537.382	357.863
67	353.828	745.262	1264.585	1494.821	1030.387	518.747	353.451
68	325.079	665.533	1072.332	1377.885	960.447	495.500	341.020
69	289.789	587.649	1003.105	1241.464	881.484	476.278	335.329
70	258.147	521.755	1026.415	1039.537	785.100	458.418	322.647
71	234.135	477.504	1050.112	807.771	689.419	442.592	310.279
72	217.355	422.552	982.992	704.921	608.087	428.694	302.723
73	209.410	354.279	863.875	676.737	547.884	415.886	287.808
74	198.269	301.706	760.124	683.078	530.339	390.595	278.071
75	183.858	273.334	701.651	660.596	513.747	365.997	271.343
76	164.971	249.060	682.313	581.821	488.069	330.906	271.668
77	144.543	212.743	506.767	462.830	448.042	306.695	268.083
78	129.493	178.869	380.921	389.956	389.317	288.448	206.402
79	123.340	156.073	346.271	387.650	330.969	261.742	145.948
80	120.458	143.066	285.943	343.137	280.252	232.594	107.462
81	116.999	127.763	246.429	262.895	254.887	178.355	102.588
82	103.940	104.894	208.645	247.582	246.052	132.564	108.415
83	73.776	77.811	162.980	221.967	229.398	108.489	62.697
84	48.286	51.870	122.827	139.481	194.559	95.482	31.883
85	28.236	37.396	87.474	102.976	157.603	70.380	25.479
86	23.111	31.443	70.694	95.094	134.681	38.098	17.734
87	21.958	29.515	58.023	79.981	110.983	25.616	11.204
88	19.012	26.894	43.989	57.310	86.898	20.616	6.718
89	11.582	17.996	29.200	42.259	61.157	11.906	2.620
90	5.503	11.519	21.706	31.380	35.342	5.565	0.000
91	0.000	3.584	12.420	18.950	15.942	0.314	0.000
92	0.000	0.702	6.016	6.907	5.377	0.000	0.000

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

93	0.000	0.314	1.079	1.142	0.126	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.314	0.000	0.000	0.000	0.000	0.000
96	0.000	0.702	0.000	0.000	0.000	0.000	0.000
97	0.000	0.702	0.000	0.000	0.000	0.000	0.000
98	0.314	0.702	0.000	0.000	0.000	0.000	0.000
99	0.000	1.017	0.000	0.000	0.000	0.000	0.000
100	0.000	0.702	0.000	0.000	0.000	0.000	0.000
101	0.000	0.702	0.000	0.000	0.000	0.000	0.000
102	0.314	0.702	0.000	0.000	0.000	0.000	0.000
103	1.017	0.702	0.000	0.000	0.000	0.000	0.000
104	0.702	0.702	0.000	0.000	0.000	0.000	0.000
105	1.017	0.702	0.000	0.000	0.000	0.000	0.000
106	1.017	0.702	0.000	0.000	0.000	0.000	0.000
107	1.017	0.702	0.000	0.000	0.000	0.000	0.000
108	1.017	0.702	0.000	0.000	0.000	0.000	0.000
109	1.017	0.702	0.000	0.000	0.000	0.000	0.000
110	1.017	0.702	0.000	0.000	0.000	0.000	0.000
111	1.017	0.702	0.000	0.000	0.000	0.000	0.000
112	1.017	0.702	0.000	0.000	0.000	0.000	0.000
113	1.017	0.702	0.000	0.000	0.000	0.000	0.000
114	1.017	0.702	0.000	0.000	0.000	0.000	0.000
115	1.017	0.702	0.000	0.000	0.000	0.000	0.000
116	1.017	0.702	0.000	0.000	0.000	0.000	0.000
117	1.017	0.702	0.000	0.000	0.000	0.000	0.000
118	1.017	0.702	0.000	0.000	0.000	0.000	0.000
119	1.017	0.702	0.000	0.000	0.000	0.000	0.000
120	1.017	0.702	0.000	0.000	0.000	0.000	0.000
121	1.017	0.702	0.000	0.000	0.000	0.000	0.000
122	1.017	0.702	0.000	0.000	0.000	0.000	0.000
123	1.017	0.702	0.000	0.000	0.000	0.000	0.000
124	1.017	0.702	0.000	0.000	0.000	0.000	0.000
125	1.017	0.702	0.000	0.000	0.000	0.000	0.000
126	1.017	0.702	0.000	0.000	0.000	0.000	0.000
127	1.017	0.702	0.000	0.000	0.000	0.000	0.000
128	1.017	0.702	0.000	0.000	0.000	0.000	0.000
129	1.017	0.702	0.000	0.000	0.000	0.000	0.000
130	1.017	0.702	0.000	0.000	0.000	0.000	0.000
131	1.017	0.702	0.000	0.000	0.000	0.000	0.000
132	1.017	0.702	0.000	0.000	0.000	0.000	0.000
133	1.017	0.702	0.000	0.000	0.000	0.000	0.000
134	1.017	0.702	0.000	0.000	0.000	0.000	0.000
135	1.017	0.702	0.000	0.000	0.000	0.000	0.000
136	1.017	0.702	0.000	0.000	0.000	0.000	0.000
137	1.017	0.702	0.000	0.000	0.000	0.000	0.000
138	1.017	0.702	0.000	0.000	0.000	0.000	0.000
139	1.017	0.702	0.000	0.000	0.000	0.000	0.000
140	1.017	0.702	0.000	0.000	0.000	0.000	0.000
141	1.017	0.702	0.000	0.000	0.000	0.000	0.000
142	1.017	0.702	0.000	0.000	0.000	0.000	0.000
143	1.017	0.702	0.000	0.000	0.000	0.000	0.000
144	1.017	0.702	0.000	0.000	0.000	0.000	0.000
145	0.702	0.702	0.000	0.000	0.000	0.000	0.000
146	0.702	0.702	0.000	0.000	0.000	0.000	0.000
147	0.702	1.017	0.000	0.000	0.000	0.000	0.000
148	0.702	0.314	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-8A-6500°K.IES**

**CANDELA TABULATION - (Cont.)**

149	0.702	0.702	0.000	0.000	0.000	0.000	0.000
150	0.702	0.314	0.000	0.000	0.000	0.000	0.000
151	0.702	0.314	0.000	0.000	0.000	0.000	0.000
152	0.702	0.314	0.000	0.000	0.000	0.000	0.000
153	0.702	0.314	0.702	0.000	0.000	0.000	0.000
154	0.702	0.314	0.314	0.000	0.000	0.000	0.000
155	0.702	0.314	0.314	0.314	0.000	0.000	0.000
156	0.702	0.314	1.017	0.702	0.000	0.000	0.000
157	0.702	0.314	0.702	0.314	0.000	0.000	0.000
158	0.702	0.314	0.702	0.314	0.000	0.000	0.000
159	0.702	0.314	0.702	0.314	0.000	0.000	0.000
160	0.702	0.314	0.702	0.314	0.000	0.000	0.000
161	0.702	0.314	0.702	0.314	0.000	0.000	0.000
162	0.702	0.314	0.702	0.314	0.000	0.000	0.000
163	0.702	0.314	0.702	0.314	0.000	0.000	0.000
164	0.702	0.314	0.702	0.314	0.000	0.000	0.000
165	0.702	0.314	0.702	0.314	0.000	0.000	0.000
166	0.702	0.314	0.702	0.314	0.000	0.000	0.000
167	0.702	0.314	0.702	0.314	0.000	0.000	0.000
168	0.702	0.314	0.702	0.314	0.000	0.000	0.000
169	0.702	0.314	0.702	0.314	0.000	0.000	0.000
170	0.702	0.314	0.702	0.314	0.000	0.000	0.000
171	0.702	0.314	0.702	0.314	0.314	0.000	0.000
172	0.702	0.314	0.702	0.314	0.314	0.000	0.000
173	0.702	0.314	0.702	0.314	0.314	0.000	0.000
174	0.702	0.314	0.702	0.314	0.314	0.000	0.000
175	0.702	0.314	0.702	0.314	0.702	0.000	0.000
176	0.702	0.314	0.702	0.314	1.017	0.000	0.000
177	1.017	0.314	0.702	0.314	0.702	0.000	0.000
178	0.314	0.314	0.702	0.314	0.702	0.000	0.000
179	0.314	0.314	0.702	0.314	0.702	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	774.39	12.10	12.10
0-30	1651.64	25.80	25.80
0-40	2731.7	42.70	42.70
0-60	5070.98	79.20	79.20
0-80	6292.49	98.30	98.30
0-90	6398.83	99.90	99.90
10-90	6195.63	96.70	96.70
20-40	1957.31	30.60	30.60
20-50	3139.45	49.00	49.00
40-70	3150.22	49.20	49.20
60-80	1221.51	19.10	19.10
70-80	410.57	6.40	6.40
80-90	106.34	1.70	1.70
90-110	3.74	0.10	0.10
90-120	4.02	0.10	0.10
90-130	4.32	0.10	0.10
90-150	4.79	0.10	0.10
90-180	5.06	0.10	0.10
110-180	1.33	0.00	0.00
0-180	6403.89	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	203.19
10-20	571.20
20-30	877.25
30-40	1080.06
40-50	1182.14
50-60	1157.14
60-70	810.94
70-80	410.57
80-90	106.34
90-100	3.48
100-110	0.26
110-120	0.28
120-130	0.30
130-140	0.27
140-150	0.20
150-160	0.15
160-170	0.10
170-180	0.03

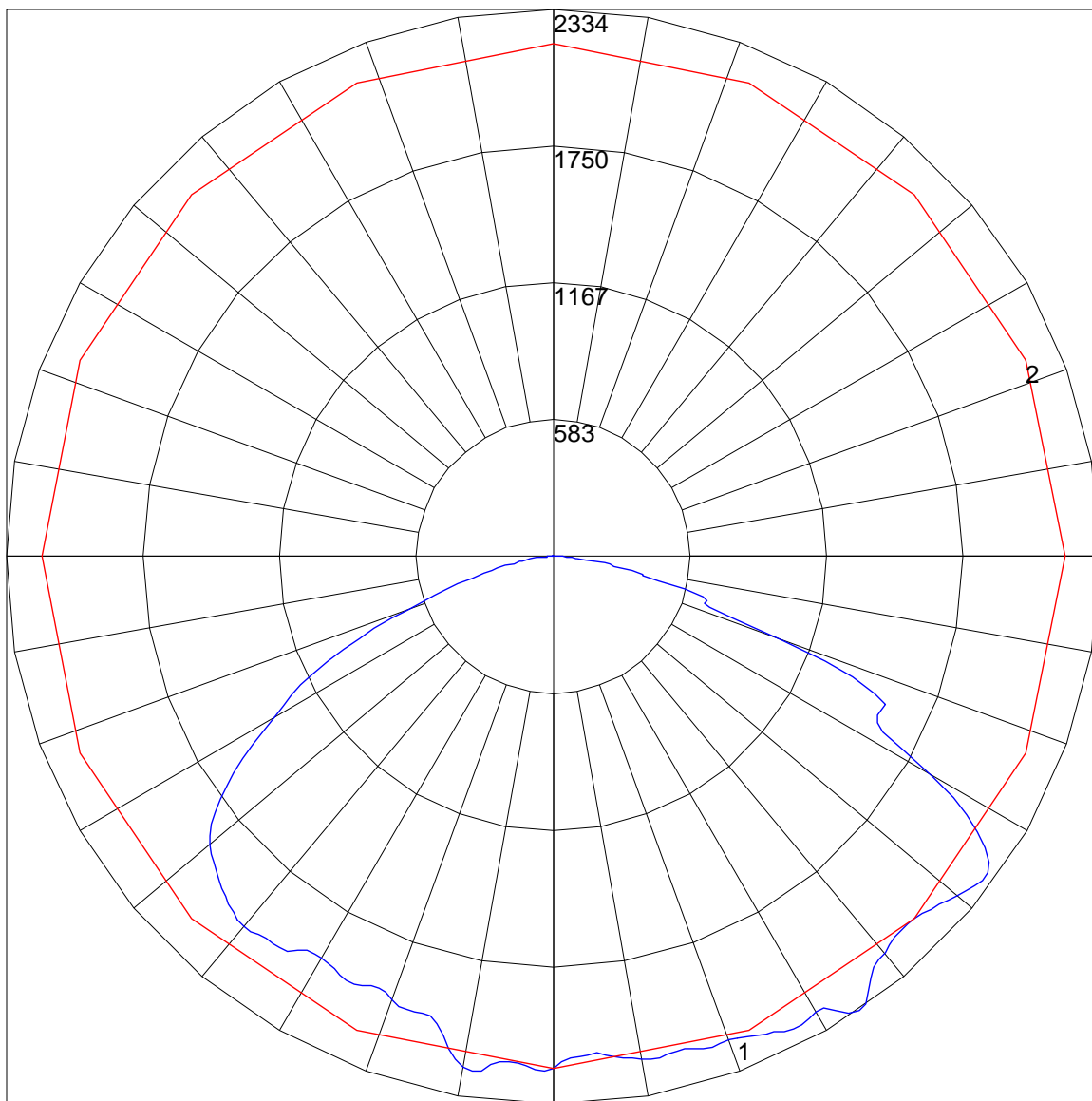
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-8A-6500°K.IES**

**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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	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	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 2333.532 Located At Horizontal Angle = 292.5, Vertical Angle = 34  
# 1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)