



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.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-10A - 4000°K

[BALLAST] -

[BALLASTCAT] -

### CHARACTERISTICS

Lumens Per Lamp	7318 (1 lamp)
Total Lamp Lumens	7318
Luminaire Lumens	7318
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	102
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	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268
1	2493.453	2494.112	2502.088	2502.447	2508.304	2507.058	2503.334	2498.280	2496.890	2485.621
2	2487.154	2489.573	2501.358	2495.357	2502.531	2502.603	2491.992	2481.956	2480.794	2470.028
3	2479.405	2478.447	2487.968	2475.153	2487.226	2486.423	2472.890	2451.297	2454.159	2450.566
4	2472.890	2466.447	2474.279	2457.884	2465.429	2471.129	2455.764	2414.996	2429.488	2425.464
5	2469.081	2460.075	2464.542	2446.841	2455.177	2468.351	2436.446	2382.505	2401.320	2413.032
6	2459.273	2455.393	2463.956	2443.249	2458.686	2473.405	2424.003	2349.798	2345.845	2376.804
7	2446.183	2447.788	2470.986	2442.446	2473.692	2494.256	2410.613	2287.593	2265.496	2310.060
8	2439.668	2444.710	2482.399	2442.374	2494.471	2529.238	2376.361	2235.124	2205.411	2251.520
9	2437.177	2444.710	2489.788	2441.129	2513.358	2537.658	2318.551	2201.100	2170.512	2210.022
10	2439.596	2451.440	2495.429	2442.374	2536.185	2525.358	2249.688	2163.997	2155.506	2166.045
11	2445.009	2460.231	2499.154	2448.231	2550.460	2495.130	2183.315	2115.912	2105.158	2101.349
12	2457.369	2467.764	2502.447	2452.099	2543.071	2450.782	2127.769	2053.636	2041.204	2020.785
13	2464.327	2469.596	2502.160	2453.416	2531.945	2394.289	2083.349	2001.611	2002.197	1974.904
14	2469.812	2477.058	2502.160	2454.662	2517.741	2347.235	2049.468	1963.334	1965.454	1945.705
15	2471.058	2488.770	2490.232	2450.494	2498.352	2315.917	2041.276	1932.747	1928.507	1926.376
16	2471.129	2499.813	2475.740	2450.051	2471.932	2312.252	2024.593	1912.327	1890.159	1906.543
17	2484.675	2506.699	2463.956	2451.740	2446.913	2319.498	1977.538	1895.788	1849.176	1883.428
18	2506.256	2511.741	2453.572	2455.476	2424.446	2322.288	1938.819	1877.644	1810.169	1858.398
19	2522.208	2517.669	2445.883	2466.590	2410.613	2316.503	1918.327	1858.398	1767.726	1825.763
20	2530.915	2517.382	2445.440	2476.914	2410.613	2298.431	1904.794	1830.733	1720.527	1784.049
21	2543.502	2510.723	2445.009	2479.992	2410.314	2274.790	1896.016	1786.456	1657.304	1735.162
22	2548.772	2505.669	2427.883	2478.890	2417.272	2266.598	1884.818	1733.330	1577.314	1678.370
23	2550.017	2503.849	2409.152	2479.249	2456.494	2272.083	1871.859	1673.257	1489.564	1617.567
24	2534.436	2498.064	2397.727	2487.154	2488.327	2287.090	1859.787	1606.956	1388.879	1547.673
25	2493.812	2493.741	2381.343	2492.651	2484.890	2299.162	1845.224	1538.092	1274.566	1475.013
26	2455.393	2485.106	2375.044	2508.603	2484.591	2300.108	1828.026	1457.372	1151.988	1402.856
27	2412.733	2466.447	2372.852	2505.082	2487.010	2292.275	1808.708	1375.406	1037.974	1339.776
28	2372.780	2441.931	2369.918	2471.501	2485.693	2276.910	1788.588	1302.087	935.600	1285.105
29	2331.653	2409.368	2364.504	2448.075	2476.112	2264.838	1765.749	1233.882	846.389	1223.343
30	2298.790	2370.289	2359.091	2437.464	2451.668	2261.472	1749.426	1169.186	764.794	1156.898
31	2267.832	2328.875	2349.869	2424.302	2445.081	2259.939	1739.042	1111.305	694.613	1090.669
32	2236.813	2282.323	2339.701	2411.416	2447.488	2264.251	1739.042	1050.932	649.463	1033.004
33	2203.507	2236.741	2325.426	2412.290	2462.279	2289.425	1739.845	993.626	612.144	979.721
34	2177.830	2197.219	2310.204	2436.446	2463.009	2317.090	1739.473	943.505	580.898	931.504
35	2150.236	2163.997	2287.593	2464.986	2452.099	2327.845	1739.042	893.671	556.311	884.665
36	2114.595	2129.458	2278.443	2481.740	2433.596	2327.474	1738.527	850.341	533.400	840.976
37	2072.307	2092.056	2270.179	2478.447	2419.104	2330.192	1734.216	808.699	516.131	794.292
38	2020.413	2051.157	2258.909	2454.518	2406.877	2339.330	1719.725	769.405	499.663	744.818
39	1944.388	1996.197	2239.807	2427.440	2397.727	2348.995	1700.622	731.285	481.962	703.835
40	1863.225	1934.795	2216.909	2415.152	2390.194	2351.115	1673.472	693.296	467.543	663.223
41	1794.433	1869.296	2195.687	2419.033	2380.457	2345.989	1646.178	658.469	451.518	629.558
42	1724.767	1790.924	2171.830	2434.985	2368.457	2332.240	1619.100	628.612	436.069	600.947
43	1663.304	1720.228	2141.530	2436.877	2356.600	2319.426	1597.219	604.168	422.979	582.731
44	1611.998	1646.465	2101.505	2431.392	2348.193	2304.132	1583.099	582.731	412.440	567.581
45	1573.434	1580.308	2049.683	2423.200	2340.360	2290.527	1566.703	566.623	403.505	553.017
46	1545.182	1528.140	1997.072	2420.853	2328.947	2268.646	1551.697	555.209	395.673	539.844
47	1543.134	1487.301	1945.406	2427.081	2319.354	2245.592	1535.457	543.425	388.068	528.861
48	1573.063	1470.618	1884.818	2433.368	2306.180	2227.005	1519.133	533.257	379.134	524.035
49	1685.472	1467.839	1802.996	2436.003	2288.551	2206.369	1502.894	524.622	372.990	517.520
50	1849.835	1491.037	1710.718	2435.644	2278.814	2184.776	1482.474	519.939	369.109	512.394
51	1820.565	1626.273	1647.639	2431.176	2270.982	2158.512	1450.342	516.933	363.768	508.669
52	1581.626	1757.414	1606.141	2426.853	2265.640	2114.894	1408.197	514.083	362.966	502.082
53	1353.310	1676.107	1591.806	2423.787	2268.574	2065.348	1352.795	510.274	362.522	492.717

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**CANDELA TABULATION - (Cont.)**

54	1087.376	1440.030	1589.458	2414.853	2279.101	2005.850	1285.248	506.322	362.966	481.591
55	882.246	1240.685	1588.213	2405.787	2285.030	1944.532	1214.049	498.346	363.409	470.465
56	760.255	1043.243	1601.459	2414.266	2269.964	1880.351	1143.281	482.693	365.157	459.123
57	678.888	918.259	1667.759	2391.224	2220.418	1808.265	1075.304	465.638	369.337	439.147
58	627.726	828.460	1634.609	2360.552	2153.602	1725.210	1009.362	441.339	374.020	419.242
59	584.779	780.603	1523.744	2310.431	2070.175	1647.124	952.499	419.170	384.775	404.895
60	552.503	736.842	1398.604	2233.220	1981.993	1574.380	910.714	404.092	394.871	397.062
61	527.257	702.374	1269.955	2138.308	1876.913	1506.103	867.180	395.673	406.212	395.829
62	503.759	668.421	1183.462	1986.748	1771.678	1443.982	807.610	391.876	405.709	390.703
63	485.615	632.708	1131.425	1853.572	1665.053	1381.478	724.470	385.289	401.901	374.020
64	460.740	601.677	1094.035	1757.186	1597.291	1306.770	635.127	370.654	390.559	348.702
65	437.386	574.455	1065.711	1609.950	1582.728	1212.073	550.970	349.277	372.044	324.402
66	408.919	546.502	1049.543	1475.157	1613.615	1116.502	478.812	327.180	367.648	308.809
67	403.877	531.209	1038.489	1360.627	1587.123	1027.363	440.321	311.372	374.307	310.713
68	389.673	517.089	1017.482	1299.452	1463.084	941.229	423.482	308.006	379.720	320.234
69	383.170	500.106	997.650	1324.471	1313.357	839.658	389.529	307.563	369.553	318.174
70	368.678	477.854	947.385	1265.787	1148.335	752.938	342.917	296.377	342.259	298.198
71	354.546	463.734	868.785	1147.605	1001.530	677.487	300.330	264.317	309.839	266.006
72	345.911	441.566	778.555	1030.069	911.372	610.384	267.023	234.101	279.766	250.640
73	328.869	426.704	696.302	874.713	931.277	552.862	248.149	230.436	241.346	258.317
74	317.743	413.901	622.384	722.422	962.822	483.423	231.825	246.173	192.315	277.419
75	310.054	391.876	566.479	605.701	890.378	407.673	221.442	263.443	150.231	264.101
76	310.426	367.792	523.089	579.868	765.525	344.091	211.777	248.293	146.063	214.040
77	306.330	333.252	495.280	600.288	654.002	307.060	193.920	196.040	156.961	148.626
78	235.849	311.959	464.022	562.970	592.755	278.521	174.231	135.236	154.255	100.613
79	166.770	294.401	431.314	486.561	509.029	236.436	150.602	97.319	135.811	90.373
80	122.793	265.634	387.924	396.703	387.769	195.824	132.817	96.074	114.002	96.733
81	117.224	205.406	336.187	343.935	395.014	168.159	133.105	106.469	98.421	96.888
82	123.883	156.087	290.952	341.013	406.943	149.788	127.691	101.128	84.445	88.984
83	71.642	110.134	260.149	292.353	322.426	133.332	117.224	83.271	40.025	74.852
84	36.432	104.421	242.664	237.610	234.903	111.739	94.613	62.420	10.611	62.852
85	29.114	82.169	209.944	227.945	168.303	81.738	61.834	54.947	0.000	55.534
86	20.264	42.731	168.387	200.651	127.691	56.121	39.294	53.929	0.000	40.971
87	12.803	29.043	133.033	139.332	96.517	39.222	27.438	42.731	0.000	25.318
88	7.677	22.827	107.787	103.176	77.343	32.492	25.018	26.120	0.000	16.312
89	2.994	15.653	90.445	95.343	67.103	31.605	23.186	15.869	0.000	11.114
90	0.000	9.294	61.690	78.804	57.151	25.905	15.366	7.389	0.000	0.802
91	0.000	2.922	40.097	52.025	43.103	16.384	6.659	0.000	0.000	0.000
92	0.000	0.072	16.755	31.090	30.659	8.336	0.000	0.000	0.000	0.000
93	0.000	0.000	4.970	15.869	17.557	0.802	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	3.365	6.503	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	0.359	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.359	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	1.162	0.802	0.359	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.802	0.359	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.802	1.234	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.802	0.802	0.802	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.802	0.802	0.802	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.802	0.802	1.234	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.359
106	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

110	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.359
124	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.000	0.000	0.802
125	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.359	0.000	0.802
126	0.000	0.000	0.000	0.000	1.162	0.802	1.234	1.162	0.000	0.802
127	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.802
128	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.802
129	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.802
130	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
131	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
132	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
133	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
134	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
135	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
136	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
137	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
138	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
139	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
140	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
141	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
142	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
143	0.000	0.000	0.000	0.000	1.162	0.802	1.234	0.802	0.000	0.359
144	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.000	0.802
145	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
146	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
147	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
148	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
149	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
150	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
151	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
152	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.359
153	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
154	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
155	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
156	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
157	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
158	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
159	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
160	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
161	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
162	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
163	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
164	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
165	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.IES**

**CANDELA TABULATION - (Cont.)**

166	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
167	0.000	0.000	0.000	0.000	1.162	0.802	0.802	0.802	0.359	0.000
168	0.000	0.000	0.000	0.000	0.802	0.802	0.802	0.802	0.359	0.000
169	0.000	0.000	0.000	0.000	0.802	0.802	0.802	0.802	0.359	0.000
170	0.000	0.000	0.000	0.000	0.802	0.802	0.802	0.802	0.359	0.000
171	0.000	0.000	0.000	0.000	0.802	0.802	0.359	0.802	0.359	0.000
172	0.000	0.000	0.359	0.000	0.802	0.802	0.359	0.802	0.359	0.000
173	0.000	0.000	0.359	0.000	0.802	0.802	0.359	0.802	0.359	0.000
174	0.000	0.000	0.359	0.000	1.162	0.802	0.359	0.802	0.359	0.000
175	0.000	0.000	0.359	0.000	0.359	0.802	0.359	0.802	0.000	0.000
176	0.000	0.000	0.359	0.000	0.359	0.802	0.359	0.802	0.000	0.000
177	0.000	0.000	0.359	0.000	0.359	0.802	0.359	0.802	0.000	0.000
178	0.000	0.000	0.359	0.802	0.359	0.802	0.359	0.802	0.000	0.000
179	0.000	0.359	0.359	0.802	0.359	0.802	0.359	0.802	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	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268	2495.268
1	2475.453	2465.129	2453.345	2460.375	2471.860	2484.591	2493.453
2	2464.770	2452.614	2441.716	2442.075	2457.812	2477.201	2487.154
3	2448.806	2454.590	2440.829	2440.326	2451.081	2471.058	2479.405
4	2448.806	2476.698	2451.524	2433.811	2442.961	2461.249	2472.890
5	2448.231	2501.645	2473.908	2428.901	2441.129	2458.327	2469.081
6	2438.853	2526.388	2491.034	2441.201	2454.590	2468.794	2459.273
7	2405.344	2539.263	2510.136	2456.794	2473.249	2486.351	2446.183
8	2333.043	2530.185	2524.556	2463.884	2490.818	2499.669	2439.668
9	2250.933	2504.064	2536.628	2474.567	2504.579	2512.484	2437.177
10	2175.123	2461.393	2540.364	2487.082	2511.382	2515.765	2439.596
11	2112.032	2405.272	2539.191	2492.651	2512.400	2515.406	2445.009
12	2068.355	2348.851	2528.065	2494.399	2504.938	2515.765	2457.369
13	2047.935	2325.581	2506.915	2489.357	2499.381	2519.502	2464.327
14	2048.450	2329.306	2491.992	2485.106	2488.770	2522.508	2469.812
15	2032.054	2344.971	2471.860	2485.477	2482.399	2524.628	2471.058
16	1982.149	2347.965	2446.758	2495.429	2477.645	2524.184	2471.129
17	1940.136	2332.971	2430.518	2507.789	2468.135	2517.526	2484.675
18	1916.351	2304.862	2437.763	2513.717	2464.111	2509.693	2506.256
19	1911.010	2264.910	2454.075	2511.741	2476.040	2504.867	2522.208
20	1909.261	2237.101	2474.064	2504.651	2489.130	2504.867	2530.915
21	1904.207	2229.340	2506.771	2510.352	2500.256	2515.765	2543.502
22	1896.746	2229.496	2527.190	2520.963	2512.627	2527.993	2548.772
23	1882.985	2238.634	2535.969	2534.652	2515.406	2532.460	2550.017
24	1867.764	2241.196	2522.580	2549.502	2508.675	2529.310	2534.436
25	1848.805	2240.538	2512.184	2553.969	2483.716	2513.430	2493.812
26	1826.266	2234.837	2504.352	2573.730	2467.692	2486.064	2455.393
27	1800.948	2232.717	2504.651	2585.216	2454.375	2445.883	2412.733
28	1779.953	2235.639	2505.897	2586.904	2453.860	2404.242	2372.780
29	1760.923	2235.268	2509.621	2574.832	2464.842	2361.726	2331.653
30	1751.845	2238.717	2508.531	2563.994	2470.770	2306.336	2298.790
31	1746.875	2260.371	2508.088	2566.197	2459.860	2257.221	2267.832
32	1748.192	2283.353	2507.645	2605.635	2440.254	2206.369	2236.813
33	1752.288	2304.276	2498.866	2650.199	2418.949	2162.967	2203.507
34	1752.288	2327.114	2487.309	2666.451	2400.146	2121.110	2177.830
35	1750.456	2341.606	2473.034	2661.912	2382.145	2088.547	2150.236
36	1742.623	2345.558	2457.297	2615.959	2372.636	2066.223	2114.595

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.IES**

**CANDELA TABULATION - (Cont.)**

37	1734.060	2350.899	2448.590	2571.826	2364.001	2038.198	2072.307
38	1714.814	2349.941	2443.392	2541.382	2350.097	2012.880	2020.413
39	1682.035	2341.534	2438.422	2525.430	2333.486	1974.532	1944.388
40	1647.855	2324.037	2433.811	2517.238	2310.204	1922.938	1863.225
41	1625.100	2307.138	2433.668	2503.621	2283.712	1863.296	1794.433
42	1603.075	2293.820	2434.099	2494.471	2257.879	1794.001	1724.767
43	1583.901	2279.185	2425.392	2491.034	2236.298	1729.449	1663.304
44	1572.117	2260.886	2412.218	2491.405	2214.777	1661.903	1611.998
45	1562.021	2244.418	2399.128	2491.034	2181.854	1607.686	1573.434
46	1548.260	2226.274	2384.637	2505.382	2113.433	1562.679	1545.182
47	1524.331	2208.345	2371.091	2518.987	2048.665	1521.181	1543.134
48	1490.522	2193.339	2358.876	2535.167	1983.826	1497.396	1573.063
49	1448.521	2176.584	2355.139	2553.754	1922.208	1483.720	1685.472
50	1405.335	2146.871	2355.067	2570.808	1868.638	1501.576	1849.835
51	1354.986	2104.283	2356.756	2591.659	1828.314	1656.346	1820.565
52	1296.746	2060.738	2359.235	2607.168	1824.074	1783.822	1581.626
53	1229.127	2009.731	2346.145	2620.929	1825.607	1678.227	1353.310
54	1155.725	1947.753	2307.940	2622.031	1800.517	1454.222	1087.376
55	1084.957	1876.985	2258.035	2596.713	1759.390	1275.596	882.246
56	1021.219	1796.852	2190.345	2541.682	1769.043	1094.179	760.255
57	968.379	1715.401	2109.397	2464.183	1823.343	972.631	678.888
58	924.187	1643.831	1992.461	2380.241	1786.756	884.809	627.726
59	882.689	1572.260	1864.985	2279.257	1664.107	823.921	584.779
60	831.981	1497.983	1763.258	2140.212	1547.673	779.657	552.503
61	763.992	1406.880	1726.383	1953.023	1436.593	743.872	527.257
62	676.984	1299.524	1749.138	1823.930	1375.921	709.476	503.759
63	583.090	1197.726	1802.050	1779.582	1347.896	681.523	485.615
64	503.915	1111.233	1815.152	1757.558	1320.962	657.882	460.740
65	453.411	1027.291	1751.258	1770.875	1279.620	636.073	437.386
66	427.949	939.553	1630.298	1776.947	1235.559	614.049	408.919
67	404.308	851.587	1445.000	1708.084	1177.390	592.755	403.877
68	371.457	760.483	1225.319	1574.464	1097.472	566.191	389.673
69	331.133	671.487	1146.215	1418.580	1007.243	544.227	383.170
70	294.976	596.192	1172.851	1187.845	897.108	523.819	368.678
71	267.538	545.628	1199.929	923.013	787.777	505.735	354.546
72	248.364	482.836	1123.233	805.490	694.841	489.855	345.911
73	239.286	404.823	987.122	773.286	626.049	475.219	328.869
74	226.556	344.750	868.569	780.531	606.001	446.321	317.743
75	210.088	312.330	801.753	754.842	587.042	418.212	310.054
76	188.507	284.593	779.657	664.828	557.700	378.116	310.426
77	165.165	243.095	579.066	528.861	511.963	350.450	306.330
78	147.967	204.387	435.267	445.590	444.860	329.600	235.849
79	140.937	178.339	395.673	442.955	378.188	299.084	166.770
80	137.644	163.476	326.737	392.092	320.234	265.778	122.793
81	133.691	145.991	281.587	300.401	291.252	203.801	117.224
82	118.769	119.859	238.412	282.904	281.156	151.476	123.883
83	84.301	88.912	186.231	253.634	262.125	123.967	71.642
84	55.175	59.271	140.350	159.381	222.316	109.104	36.432
85	32.264	42.731	99.954	117.667	180.088	80.421	29.114
86	26.408	35.929	80.780	108.661	153.895	43.534	20.264
87	25.090	33.725	66.301	91.391	126.817	29.270	12.803
88	21.725	30.731	50.265	65.486	99.296	23.557	7.677
89	13.234	20.563	33.366	48.288	69.882	13.605	2.994
90	6.288	13.162	24.803	35.857	40.384	6.359	0.000
91	0.000	4.096	14.192	21.653	18.216	0.359	0.000
92	0.000	0.802	6.874	7.892	6.144	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.IES**

**CANDELA TABULATION - (Cont.)**

93	0.000	0.359	1.234	1.305	0.144	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.359	0.000	0.000	0.000	0.000	0.000
96	0.000	0.802	0.000	0.000	0.000	0.000	0.000
97	0.000	0.802	0.000	0.000	0.000	0.000	0.000
98	0.359	0.802	0.000	0.000	0.000	0.000	0.000
99	0.000	1.162	0.000	0.000	0.000	0.000	0.000
100	0.000	0.802	0.000	0.000	0.000	0.000	0.000
101	0.000	0.802	0.000	0.000	0.000	0.000	0.000
102	0.359	0.802	0.000	0.000	0.000	0.000	0.000
103	1.162	0.802	0.000	0.000	0.000	0.000	0.000
104	0.802	0.802	0.000	0.000	0.000	0.000	0.000
105	1.162	0.802	0.000	0.000	0.000	0.000	0.000
106	1.162	0.802	0.000	0.000	0.000	0.000	0.000
107	1.162	0.802	0.000	0.000	0.000	0.000	0.000
108	1.162	0.802	0.000	0.000	0.000	0.000	0.000
109	1.162	0.802	0.000	0.000	0.000	0.000	0.000
110	1.162	0.802	0.000	0.000	0.000	0.000	0.000
111	1.162	0.802	0.000	0.000	0.000	0.000	0.000
112	1.162	0.802	0.000	0.000	0.000	0.000	0.000
113	1.162	0.802	0.000	0.000	0.000	0.000	0.000
114	1.162	0.802	0.000	0.000	0.000	0.000	0.000
115	1.162	0.802	0.000	0.000	0.000	0.000	0.000
116	1.162	0.802	0.000	0.000	0.000	0.000	0.000
117	1.162	0.802	0.000	0.000	0.000	0.000	0.000
118	1.162	0.802	0.000	0.000	0.000	0.000	0.000
119	1.162	0.802	0.000	0.000	0.000	0.000	0.000
120	1.162	0.802	0.000	0.000	0.000	0.000	0.000
121	1.162	0.802	0.000	0.000	0.000	0.000	0.000
122	1.162	0.802	0.000	0.000	0.000	0.000	0.000
123	1.162	0.802	0.000	0.000	0.000	0.000	0.000
124	1.162	0.802	0.000	0.000	0.000	0.000	0.000
125	1.162	0.802	0.000	0.000	0.000	0.000	0.000
126	1.162	0.802	0.000	0.000	0.000	0.000	0.000
127	1.162	0.802	0.000	0.000	0.000	0.000	0.000
128	1.162	0.802	0.000	0.000	0.000	0.000	0.000
129	1.162	0.802	0.000	0.000	0.000	0.000	0.000
130	1.162	0.802	0.000	0.000	0.000	0.000	0.000
131	1.162	0.802	0.000	0.000	0.000	0.000	0.000
132	1.162	0.802	0.000	0.000	0.000	0.000	0.000
133	1.162	0.802	0.000	0.000	0.000	0.000	0.000
134	1.162	0.802	0.000	0.000	0.000	0.000	0.000
135	1.162	0.802	0.000	0.000	0.000	0.000	0.000
136	1.162	0.802	0.000	0.000	0.000	0.000	0.000
137	1.162	0.802	0.000	0.000	0.000	0.000	0.000
138	1.162	0.802	0.000	0.000	0.000	0.000	0.000
139	1.162	0.802	0.000	0.000	0.000	0.000	0.000
140	1.162	0.802	0.000	0.000	0.000	0.000	0.000
141	1.162	0.802	0.000	0.000	0.000	0.000	0.000
142	1.162	0.802	0.000	0.000	0.000	0.000	0.000
143	1.162	0.802	0.000	0.000	0.000	0.000	0.000
144	1.162	0.802	0.000	0.000	0.000	0.000	0.000
145	0.802	0.802	0.000	0.000	0.000	0.000	0.000
146	0.802	0.802	0.000	0.000	0.000	0.000	0.000
147	0.802	1.162	0.000	0.000	0.000	0.000	0.000
148	0.802	0.359	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.IES**

**CANDELA TABULATION - (Cont.)**

149	0.802	0.802	0.000	0.000	0.000	0.000	0.000
150	0.802	0.359	0.000	0.000	0.000	0.000	0.000
151	0.802	0.359	0.000	0.000	0.000	0.000	0.000
152	0.802	0.359	0.000	0.000	0.000	0.000	0.000
153	0.802	0.359	0.802	0.000	0.000	0.000	0.000
154	0.802	0.359	0.359	0.000	0.000	0.000	0.000
155	0.802	0.359	0.359	0.359	0.000	0.000	0.000
156	0.802	0.359	1.162	0.802	0.000	0.000	0.000
157	0.802	0.359	0.802	0.359	0.000	0.000	0.000
158	0.802	0.359	0.802	0.359	0.000	0.000	0.000
159	0.802	0.359	0.802	0.359	0.000	0.000	0.000
160	0.802	0.359	0.802	0.359	0.000	0.000	0.000
161	0.802	0.359	0.802	0.359	0.000	0.000	0.000
162	0.802	0.359	0.802	0.359	0.000	0.000	0.000
163	0.802	0.359	0.802	0.359	0.000	0.000	0.000
164	0.802	0.359	0.802	0.359	0.000	0.000	0.000
165	0.802	0.359	0.802	0.359	0.000	0.000	0.000
166	0.802	0.359	0.802	0.359	0.000	0.000	0.000
167	0.802	0.359	0.802	0.359	0.000	0.000	0.000
168	0.802	0.359	0.802	0.359	0.000	0.000	0.000
169	0.802	0.359	0.802	0.359	0.000	0.000	0.000
170	0.802	0.359	0.802	0.359	0.000	0.000	0.000
171	0.802	0.359	0.802	0.359	0.359	0.000	0.000
172	0.802	0.359	0.802	0.359	0.359	0.000	0.000
173	0.802	0.359	0.802	0.359	0.359	0.000	0.000
174	0.802	0.359	0.802	0.359	0.359	0.000	0.000
175	0.802	0.359	0.802	0.359	0.802	0.000	0.000
176	0.802	0.359	0.802	0.359	1.162	0.000	0.000
177	1.162	0.359	0.802	0.359	0.802	0.000	0.000
178	0.359	0.359	0.802	0.359	0.802	0.000	0.000
179	0.359	0.359	0.802	0.359	0.802	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	884.87	12.10	12.10
0-30	1887.28	25.80	25.80
0-40	3121.42	42.70	42.70
0-60	5794.45	79.20	79.20
0-80	7190.22	98.30	98.30
0-90	7311.73	99.90	99.90
10-90	7079.55	96.70	96.70
20-40	2236.55	30.60	30.60
20-50	3587.35	49.00	49.00
40-70	3599.66	49.20	49.20
60-80	1395.78	19.10	19.10
70-80	469.14	6.40	6.40
80-90	121.51	1.70	1.70
90-110	4.27	0.10	0.10
90-120	4.59	0.10	0.10
90-130	4.94	0.10	0.10
90-150	5.47	0.10	0.10
90-180	5.79	0.10	0.10
110-180	1.52	0.00	0.00
0-180	7317.52	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	232.18
10-20	652.69
20-30	1002.4
30-40	1234.15
40-50	1350.8
50-60	1322.22
60-70	926.63
70-80	469.14
80-90	121.51
90-100	3.98
100-110	0.30
110-120	0.32
120-130	0.34
130-140	0.31
140-150	0.23
150-160	0.17
160-170	0.11
170-180	0.04

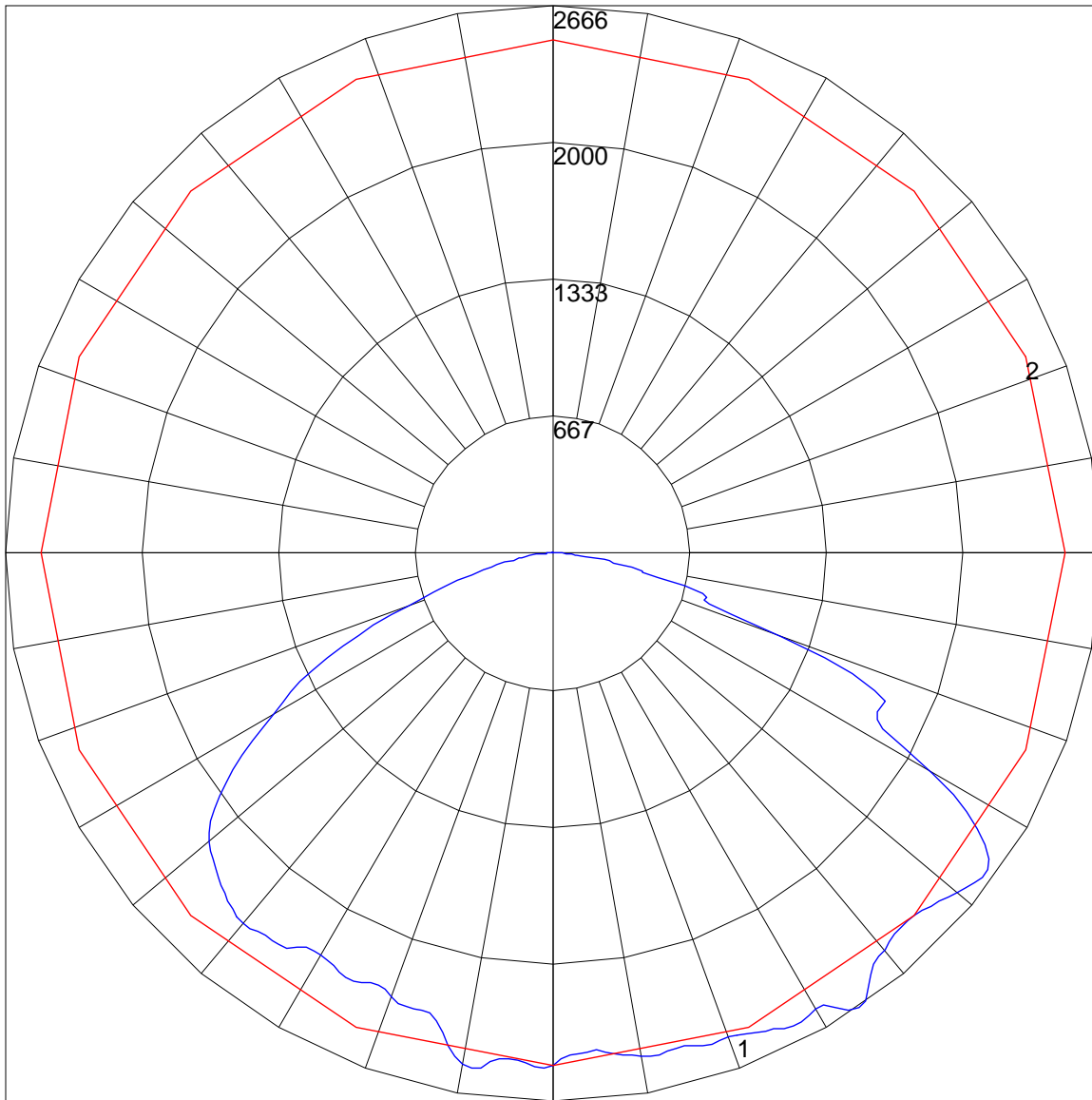
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-10A-4000°K-P.IES**

**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 = 2666.451 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)