



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-4A-5700°K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] BEGHELLI

[TESTDATE] 2020/3/10

[ISSUEDATE] 2020/3/10 11:57:32

[NEARFIELD]

[LAMPPOSITION] 0 0

[OTHER] BEGHELLI

[MANUFAC] BEGHELLI

[LUMINAIRE] BLS-4A-5700°K

[OTHER] TOTAL LUMINAIRE WATTS REPRESENT LUMINAIRE POWER DELIVERY

### CHARACTERISTICS

Lumens Per Lamp	4074.21 (1 lamp)
Total Lamp Lumens	4074.21
Luminaire Lumens	3259
Total Luminaire Efficiency	80 %
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	22.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.26
Spacing Criterion (90-270)	1.84
Spacing Criterion (Diagonal)	1.84
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>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	705.208	705.208	705.208	705.208	705.208	705.208	705.208	705.208	705.208	705.208
1	716.376	716.544	712.048	706.432	698.176	691.784	686.072	691.048	699.552	709.160
2	732.320	729.688	719.160	705.456	689.408	677.312	670.040	677.368	693.264	711.072
3	747.800	741.896	725.864	704.232	680.632	662.472	652.024	662.304	686.384	713.672
4	763.616	755.048	732.928	703.272	671.192	646.456	631.568	645.872	678.944	716.408
5	778.608	768.064	739.952	703.008	662.168	630.208	611.440	628.928	672.168	719.008
6	794.208	781.624	748.152	703.008	652.576	612.744	592.040	612.080	664.936	721.888
7	809.280	794.640	755.936	703.144	643.520	595.088	570.872	596.848	657.224	724.760
8	825.984	807.760	764.168	703.296	634.480	577.544	549.808	580.680	649.776	728.176
9	843.096	820.784	772.704	703.696	624.488	560.240	529.416	562.352	642.920	731.888
10	859.848	835.592	781.144	704.112	615.720	542.192	508.536	544.528	635.944	736.936
11	877.168	851.480	790.296	705.072	606.544	523.576	487.888	527.400	628.496	741.728
12	897.432	865.600	799.320	706.176	597.352	506.976	467.528	511.488	621.232	747.080
13	917.720	881.232	809.016	708.240	588.712	489.504	447.744	495.872	613.976	752.280
14	937.464	898.248	819.112	710.568	580.080	471.592	428.088	480.240	606.608	757.072
15	957.736	917.000	829.728	712.904	571.728	454.152	408.696	463.136	599.296	763.232
16	976.600	934.976	840.944	715.504	563.664	437.760	388.992	445.912	591.616	770.056
17	995.520	954.432	853.560	718.656	555.176	421.248	370.728	429.056	583.984	775.824
18	1014.424	975.128	865.968	722.360	546.672	404.272	352.704	414.120	576.168	781.864
19	1033.184	995.232	878.984	726.320	537.360	386.928	335.312	398.736	568.192	787.880
20	1053.728	1019.488	895.800	730.160	528.864	370.360	318.960	383.344	560.624	793.768
21	1072.920	1043.552	912.672	734.552	520.512	355.368	303.752	368.840	552.896	800.344
22	1092.520	1060.424	930.080	738.528	512.272	341.016	289.848	354.128	544.792	807.072
23	1113.464	1080.464	947.872	743.056	503.920	327.008	276.600	340.360	536.776	814.176
24	1134.832	1104.648	966.240	747.848	496.112	313.272	263.816	326.928	528.848	821.176
25	1158.920	1120.240	983.648	753.048	488.024	300.464	252.384	313.960	520.848	828.168
26	1181.000	1132.616	998.472	758.816	478.848	288.504	242.336	301.136	513.000	836.368
27	1203.272	1150.064	1012.696	764.576	470.112	277.304	233.400	288.760	505.264	844.704
28	1224.520	1171.984	1026.800	771.144	460.944	267.152	225.128	277.272	497.736	853.208
29	1240.888	1192.928	1041.456	777.032	452.288	257.648	217.616	267.152	490.192	861.152
30	1257.592	1212.848	1058.560	783.208	443.936	249.064	210.888	257.448	483.008	868.688
31	1275.408	1229.976	1075.144	790.328	435.032	241.208	204.416	247.632	475.728	876.096
32	1292.944	1245.600	1092.808	798.264	426.256	233.192	198.816	238.096	468.736	883.224
33	1307.368	1263.568	1111.016	805.680	418.312	225.904	193.464	228.448	461.712	890.352
34	1320.264	1281.776	1130.744	813.344	410.760	219.696	190.048	220.536	454.784	898.416
35	1331.920	1298.344	1148.568	820.736	402.880	213.744	187.848	213.592	447.576	907.456
36	1341.128	1314.080	1166.512	827.576	395.000	207.384	184.712	207.584	440.880	915.960
37	1347.600	1327.480	1182.984	834.304	388.024	200.928	180.888	202.552	434.224	923.488
38	1351.864	1338.280	1199.368	840.592	380.944	194.888	177.048	198.344	427.664	930.888
39	1355.416	1346.344	1213.920	846.496	373.984	189.320	173.992	194.504	421.080	938.552
40	1355.600	1352.368	1227.912	853.488	367.280	184.224	172.336	191.200	414.264	947.440
41	1351.272	1357.544	1242.280	860.872	360.672	179.160	172.320	187.392	409.792	954.848
42	1345.136	1360.536	1255.720	868.968	353.824	173.896	174.864	184.392	405.800	962.800
43	1336.800	1360.952	1268.616	877.856	346.512	169.184	178.792	182.064	402.696	968.432
44	1324.776	1361.224	1280.536	885.120	339.656	165.536	184.944	179.544	401.200	974.456
45	1306.768	1359.960	1292.056	892.936	333.752	163.312	199.824	175.456	400.536	979.400
46	1283.944	1356.504	1304.784	899.912	328.184	161.056	210.424	171.096	400.704	983.248
47	1254.808	1350.168	1316.440	906.904	323.872	156.912	240.840	167.152	400.768	985.864
48	1220.080	1338.464	1325.512	913.880	320.248	153.368	384.128	163.464	400.384	988.056
49	1178.624	1321.168	1334.424	920.056	317.032	149.720	696.368	161.328	400.112	989.704
50	1130.192	1300.008	1340.728	926.760	314.352	148.000	482.304	160.336	400.096	989.848
51	1081.416	1273.512	1346.224	932.648	312.888	144.912	358.384	158.272	400.480	988.224
52	1031.008	1240.552	1349.264	937.848	312.152	146.256	402.360	163.488	400.952	983.864
53	979.368	1200.880	1348.088	942.344	311.544	150.576	324.608	153.584	400.984	977.728

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**CANDELA TABULATION - (Cont.)**

54	931.104	1155.096	1343.328	945.192	311.192	144.264	195.512	149.096	400.536	968.840
55	878.128	1105.320	1335.424	945.328	311.312	143.848	201.984	162.128	400.032	956.816
56	822.664	1051.352	1323.688	944.776	312.200	166.504	256.488	186.560	399.224	941.352
57	761.472	999.144	1308.512	942.272	313.680	191.440	269.104	184.008	398.472	923.424
58	698.880	947.992	1291.808	937.160	315.352	180.168	260.984	168.608	396.880	903.984
59	634.232	890.488	1273.880	927.128	316.544	162.352	261.072	153.368	395.064	881.800
60	570.104	832.944	1250.632	912.256	317.704	144.848	207.472	141.608	393.184	854.160
61	511.688	770.592	1224.152	890.688	319.048	131.104	162.400	132.936	390.552	823.584
62	454.536	708.624	1196.368	869.072	321.024	116.400	139.200	126.968	386.544	790.048
63	380.776	644.632	1167.048	843.424	322.816	106.616	127.272	119.696	381.600	755.512
64	306.816	581.400	1136.512	811.600	324.848	99.400	118.344	113.104	375.024	724.256
65	250.288	520.208	1101.496	771.216	326.808	93.248	111.000	107.200	366.200	697.224
66	221.576	459.600	1058.160	729.088	327.432	90.712	108.264	103.240	355.120	672.800
67	191.456	390.720	1004.160	686.736	325.584	88.384	112.008	100.112	340.928	648.952
68	157.816	321.944	945.024	647.208	322.368	86.192	105.936	97.696	322.344	643.608
69	125.728	266.096	876.888	611.896	316.280	83.848	97.376	95.096	295.632	663.392
70	102.496	218.608	802.408	577.648	306.984	81.632	92.272	92.056	262.424	693.864
71	89.816	184.816	727.056	565.168	292.480	79.424	89.688	89.360	228.232	734.752
72	81.688	159.016	653.536	580.904	269.904	76.688	86.080	87.968	194.032	747.816
73	74.936	136.840	564.112	613.048	240.712	74.984	82.872	87.456	160.064	693.264
74	68.792	118.192	467.752	660.496	207.472	73.800	79.672	87.584	123.792	566.680
75	63.184	102.680	402.240	687.896	166.176	72.856	77.176	87.776	86.128	405.312
76	58.224	89.904	337.136	630.992	126.392	71.704	70.568	88.632	73.760	264.056
77	52.824	80.616	300.408	493.560	84.568	70.216	65.672	91.112	75.512	122.984
78	47.888	71.344	267.008	312.768	65.792	69.744	58.800	91.208	81.728	69.952
79	43.216	64.000	220.400	165.240	61.760	70.432	38.696	87.952	78.384	61.160
80	38.536	57.496	168.728	116.648	61.424	71.104	34.384	81.544	74.968	59.328
81	35.704	51.704	136.176	68.472	61.744	70.312	31.112	73.008	65.128	59.120
82	32.392	46.512	105.968	67.248	60.192	66.552	28.808	63.552	54.744	53.312
83	29.016	42.368	81.696	67.056	54.960	60.592	26.584	53.888	44.240	48.600
84	26.016	38.232	66.336	61.624	47.456	53.488	24.088	42.368	34.872	41.512
85	23.216	34.000	56.816	53.064	39.872	45.176	21.944	32.120	26.792	34.400
86	20.432	30.040	50.584	43.656	32.288	36.080	20.336	25.624	21.048	29.856
87	17.920	25.832	41.768	35.960	25.560	27.712	19.000	21.384	18.432	23.976
88	15.488	22.096	32.920	29.960	20.680	23.192	17.624	18.376	17.440	18.232
89	13.736	19.192	24.336	23.952	18.792	18.176	15.992	18.880	16.752	17.552
90	12.696	17.056	20.376	18.120	18.104	18.832	15.944	19.496	16.672	16.816
91	12.072	15.904	21.248	15.920	18.184	20.312	15.960	20.400	17.328	14.848
92	12.168	15.600	19.472	15.072	18.152	20.992	15.944	21.408	17.400	15.144
93	12.344	15.040	18.840	13.296	17.832	21.584	16.112	21.032	17.424	15.416
94	12.872	14.512	18.632	13.152	17.280	20.952	16.328	20.072	18.528	17.344
95	13.336	14.624	19.120	13.592	17.672	19.968	16.688	19.008	19.056	18.864
96	13.728	15.168	19.056	16.952	17.816	18.728	16.712	18.664	17.320	18.584
97	15.768	19.696	18.688	19.232	17.008	18.112	17.000	18.360	16.576	18.064
98	16.320	18.736	17.408	16.256	16.200	17.760	16.896	18.288	16.896	17.456
99	14.360	17.336	16.936	16.504	16.008	17.536	16.936	18.560	16.656	16.168
100	13.400	16.120	15.984	15.232	16.168	17.760	17.104	18.896	16.584	15.712
101	12.608	15.160	15.408	14.832	15.912	18.080	17.208	19.184	16.840	15.432
102	12.144	14.720	14.144	14.944	16.144	18.288	17.368	19.480	17.144	14.104
103	11.800	14.240	13.800	14.632	16.432	18.648	17.584	19.592	17.456	14.056
104	11.672	14.192	13.632	13.760	16.776	18.848	17.872	19.872	17.736	14.208
105	11.472	13.888	13.648	13.848	17.168	18.976	18.104	20.104	17.944	14.400
106	11.440	13.640	13.624	14.080	17.456	19.232	18.384	20.424	18.144	14.568
107	11.448	13.048	13.608	14.336	17.712	19.640	18.808	20.528	18.360	14.760
108	11.640	13.016	13.616	14.600	17.992	19.968	19.424	20.720	18.592	14.952
109	11.992	12.968	13.720	14.872	18.288	20.192	20.464	21.032	18.824	15.104

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**CANDELA TABULATION - (Cont.)**

110	12.656	12.896	13.576	15.128	18.600	20.584	21.392	21.336	19.056	15.192
111	15.504	12.912	13.424	15.344	18.904	20.960	21.600	21.696	19.320	15.312
112	25.240	13.376	13.248	15.576	19.208	21.264	21.912	22.144	19.568	15.384
113	22.832	20.368	13.176	15.768	19.504	21.728	22.544	22.704	19.800	15.416
114	22.928	25.792	13.072	15.920	19.792	22.216	23.256	23.488	20.032	15.432
115	31.384	25.104	13.000	15.984	20.048	22.864	24.320	24.056	20.280	15.448
116	42.320	20.504	12.976	16.048	20.264	23.504	25.256	24.200	20.496	15.488
117	34.256	16.664	12.912	16.120	20.448	23.680	25.496	24.096	20.696	15.528
118	20.160	15.208	12.856	16.184	20.640	23.640	25.544	24.080	20.896	15.616
119	16.064	14.576	12.840	16.256	20.792	23.664	25.496	24.144	21.088	15.752
120	14.928	13.920	12.872	16.296	20.936	23.816	25.352	24.416	21.232	15.872
121	14.024	13.248	12.920	16.304	21.072	24.112	25.264	24.880	21.360	15.960
122	13.304	12.744	13.016	16.344	21.200	24.416	25.336	25.192	21.488	16.072
123	12.872	12.544	13.144	16.392	21.344	24.832	25.624	25.400	21.624	16.192
124	12.592	12.416	13.272	16.448	21.480	24.928	25.960	25.496	21.760	16.280
125	12.384	12.264	13.400	16.504	21.592	24.992	26.296	25.600	21.824	16.384
126	11.936	12.176	13.520	16.560	21.728	25.032	26.392	25.544	21.904	16.504
127	11.640	12.072	13.656	16.624	21.832	24.992	26.224	25.432	21.984	16.600
128	11.464	11.976	13.808	16.704	21.928	24.992	25.832	25.528	22.080	16.704
129	11.288	11.944	13.968	16.768	22.048	25.008	25.400	25.768	22.168	16.800
130	11.216	11.952	14.160	16.856	22.160	24.904	25.032	25.728	22.256	16.904
131	11.216	12.016	14.344	16.968	22.264	24.864	24.792	25.384	22.288	17.016
132	11.256	12.104	14.496	17.096	22.344	24.864	24.624	25.400	22.280	17.128
133	11.352	12.240	14.624	17.240	22.416	24.992	24.504	25.528	22.312	17.224
134	11.456	12.432	14.720	17.360	22.488	25.144	24.432	25.776	22.384	17.304
135	11.552	12.624	14.872	17.480	22.576	25.168	24.352	25.808	22.496	17.392
136	11.688	12.840	15.048	17.616	22.704	25.200	24.312	25.728	22.592	17.456
137	11.872	13.080	15.256	17.728	22.880	25.280	24.360	25.616	22.728	17.536
138	12.096	13.320	15.504	17.824	23.008	25.408	24.448	25.672	22.824	17.608
139	12.352	13.624	15.720	17.920	23.080	25.624	24.568	25.832	22.904	17.696
140	12.648	13.912	15.856	18.008	23.088	25.848	24.688	26.072	22.960	17.800
141	12.936	14.184	15.968	18.104	23.104	26.056	24.856	26.264	23.240	17.904
142	13.256	14.528	16.072	18.200	23.256	26.288	25.160	26.440	23.664	18.008
143	13.640	14.936	16.160	18.280	23.488	26.648	25.728	26.856	23.616	18.120
144	14.064	15.360	16.264	18.376	23.544	27.288	26.536	27.176	23.168	18.240
145	14.520	15.752	16.376	18.488	23.384	27.728	26.720	27.280	22.760	18.368
146	15.000	16.120	16.472	18.592	23.096	28.008	27.352	27.472	22.480	18.504
147	15.496	16.400	16.544	18.696	22.824	28.088	28.528	27.728	22.280	18.624
148	15.992	16.616	16.608	18.816	22.624	27.992	29.824	27.792	22.168	18.744
149	16.424	16.752	16.656	18.904	22.488	27.928	30.576	27.288	22.096	18.872
150	16.752	16.848	16.736	18.984	22.408	27.536	30.472	26.880	22.088	18.984
151	17.016	16.928	16.792	19.088	22.384	27.072	29.512	26.496	22.112	19.104
152	17.224	17.008	16.872	19.176	22.384	26.536	28.664	26.128	22.152	19.224
153	17.424	17.104	16.992	19.280	22.392	26.120	27.976	25.720	22.200	19.336
154	17.624	17.216	17.120	19.384	22.424	25.744	27.336	25.328	22.352	19.456
155	17.848	17.328	17.248	19.512	22.480	25.384	26.656	25.024	22.456	19.608
156	18.056	17.408	17.408	19.624	22.536	25.080	26.152	24.760	22.400	19.792
157	18.240	17.472	17.504	19.776	22.632	24.800	25.808	24.552	22.352	20.024
158	18.352	17.560	17.568	19.960	22.568	24.568	25.520	24.416	22.336	20.208
159	18.456	17.656	17.728	20.184	22.568	24.368	25.256	24.288	22.384	20.136
160	18.568	17.736	17.888	20.344	22.600	24.208	25.040	24.216	22.424	20.152
161	18.720	17.832	18.072	20.360	22.648	24.096	24.896	24.136	22.472	20.240
162	18.872	17.960	18.240	20.464	22.696	24.000	24.792	24.056	22.496	20.344
163	19.024	18.080	18.408	20.584	22.712	23.896	24.720	23.984	22.528	20.432
164	19.160	18.216	18.576	20.704	22.728	23.776	24.648	23.928	22.528	20.520
165	19.304	18.360	18.752	20.800	22.736	23.672	24.560	23.856	22.512	20.584

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

166	19.456	18.520	18.920	20.872	22.720	23.560	24.464	23.768	22.488	20.664
167	19.624	18.688	19.112	20.952	22.696	23.464	24.376	23.672	22.424	20.744
168	19.816	18.880	19.288	21.016	22.664	23.360	24.304	23.592	22.376	20.800
169	20.032	19.088	19.472	21.080	22.616	23.256	24.232	23.512	22.336	20.864
170	20.232	19.296	19.656	21.128	22.560	23.136	24.168	23.408	22.280	20.920
171	20.440	19.520	19.840	21.184	22.488	23.032	24.104	23.304	22.216	20.976
172	20.632	19.760	19.992	21.224	22.392	22.896	24.008	23.184	22.136	21.008
173	20.832	19.984	20.152	21.248	22.288	22.744	23.904	23.080	22.072	21.072
174	21.056	20.232	20.336	21.288	22.200	22.592	23.768	22.904	21.976	21.112
175	21.224	20.440	20.432	21.280	22.016	22.360	23.592	22.696	21.840	21.128
176	21.440	20.616	20.520	21.232	21.816	22.112	23.392	22.440	21.712	21.136
177	21.640	20.760	20.568	21.184	21.552	21.792	23.152	22.168	21.552	21.152
178	21.864	20.944	20.688	21.152	21.384	21.504	22.888	21.904	21.368	21.120
179	22.136	21.208	20.888	21.168	21.264	21.312	22.648	21.680	21.208	21.144
180	22.376	22.376	22.376	22.376	22.376	22.376	22.376	22.376	22.376	22.376

Vert. Angles	Horizontal Angles		
	<u>300</u>	<u>330</u>	<u>360</u>
0	705.208	705.208	705.208
1	715.032	719.808	716.376
2	724.224	734.096	732.320
3	734.504	749.432	747.800
4	745.184	764.704	763.616
5	755.048	779.328	778.608
6	764.928	793.336	794.208
7	776.432	807.808	809.280
8	787.096	822.176	825.984
9	798.064	838.848	843.096
10	809.856	855.856	859.848
11	822.048	873.080	877.168
12	834.656	891.792	897.432
13	847.136	910.528	917.720
14	860.144	927.536	937.464
15	873.464	948.880	957.736
16	888.256	971.136	976.600
17	903.352	994.296	995.520
18	919.512	1014.736	1014.424
19	935.784	1035.280	1033.184
20	953.608	1063.440	1053.728
21	971.976	1085.424	1072.920
22	990.168	1094.856	1092.520
23	1007.296	1112.176	1113.464
24	1022.904	1135.152	1134.832
25	1037.568	1154.088	1158.920
26	1053.328	1168.640	1181.000
27	1068.824	1184.760	1203.272
28	1085.984	1203.776	1224.520
29	1105.168	1224.320	1240.888
30	1124.432	1243.376	1257.592
31	1143.624	1259.976	1275.408
32	1163.224	1275.336	1292.944
33	1183.488	1291.504	1307.368
34	1202.368	1308.072	1320.264
35	1218.656	1324.792	1331.920
36	1234.136	1339.336	1341.128

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**CANDELA TABULATION - (Cont.)**

37	1248.216	1350.584	1347.600
38	1260.528	1358.672	1351.864
39	1271.496	1365.952	1355.416
40	1282.312	1372.520	1355.600
41	1292.680	1377.072	1351.272
42	1301.720	1379.552	1345.136
43	1310.472	1379.856	1336.800
44	1317.448	1377.672	1324.776
45	1323.064	1372.912	1306.768
46	1329.224	1365.128	1283.944
47	1334.136	1353.776	1254.808
48	1337.824	1336.280	1220.080
49	1339.720	1313.176	1178.624
50	1339.384	1283.976	1130.192
51	1334.688	1249.760	1081.416
52	1326.872	1209.416	1031.008
53	1318.240	1160.576	979.368
54	1307.936	1108.120	931.104
55	1294.744	1056.600	878.128
56	1278.408	1008.600	822.664
57	1258.784	961.056	761.472
58	1237.120	912.976	698.880
59	1213.976	855.504	634.232
60	1191.856	792.112	570.104
61	1164.016	724.624	511.688
62	1133.776	655.864	454.536
63	1096.832	588.160	380.776
64	1052.896	525.360	306.816
65	1001.152	457.720	250.288
66	941.800	385.136	221.576
67	867.976	312.520	191.456
68	797.912	257.576	157.816
69	727.088	212.096	125.728
70	653.632	180.568	102.496
71	569.968	153.616	89.816
72	478.264	130.736	81.688
73	397.920	113.880	74.936
74	343.560	100.880	68.792
75	308.728	89.168	63.184
76	273.240	79.344	58.224
77	225.416	71.576	52.824
78	170.256	64.672	47.888
79	134.152	58.752	43.216
80	104.512	53.208	38.536
81	84.776	48.192	35.704
82	65.168	44.872	32.392
83	55.904	40.968	29.016
84	51.648	37.064	26.016
85	41.920	32.632	23.216
86	34.296	27.968	20.432
87	27.192	23.776	17.920
88	22.904	21.296	15.488
89	22.864	19.024	13.736
90	22.256	18.280	12.696
91	21.000	17.880	12.072
92	20.232	17.176	12.168

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

93	19.640	16.760	12.344
94	21.648	16.960	12.872
95	20.464	18.064	13.336
96	21.424	22.776	13.728
97	20.960	20.704	15.768
98	18.136	19.120	16.320
99	18.360	17.720	14.360
100	16.536	17.056	13.400
101	15.208	16.368	12.608
102	14.856	15.880	12.144
103	14.840	15.728	11.800
104	14.824	15.584	11.672
105	14.680	15.264	11.472
106	14.512	14.680	11.440
107	14.512	14.696	11.448
108	14.392	14.800	11.640
109	14.048	14.712	11.992
110	13.664	14.808	12.656
111	13.312	16.152	15.504
112	13.192	25.832	25.240
113	13.256	30.496	22.832
114	13.384	29.112	22.928
115	13.328	23.808	31.384
116	13.312	19.272	42.320
117	13.272	17.448	34.256
118	13.280	16.624	20.160
119	13.312	15.832	16.064
120	13.360	15.144	14.928
121	13.440	14.768	14.024
122	13.568	14.528	13.304
123	13.664	14.272	12.872
124	13.760	14.160	12.592
125	13.888	13.968	12.384
126	14.000	13.760	11.936
127	14.152	13.608	11.640
128	14.336	13.568	11.464
129	14.520	13.584	11.288
130	14.728	13.568	11.216
131	14.872	13.528	11.216
132	14.968	13.648	11.256
133	15.104	13.864	11.352
134	15.192	14.264	11.456
135	15.352	14.320	11.552
136	15.552	14.504	11.688
137	15.784	14.672	11.872
138	16.000	14.848	12.096
139	16.168	14.992	12.352
140	16.344	15.168	12.648
141	16.520	15.416	12.936
142	16.608	15.688	13.256
143	16.728	16.040	13.640
144	16.800	16.392	14.064
145	16.880	16.744	14.520
146	16.968	17.056	15.000
147	17.048	17.296	15.496
148	17.080	17.424	15.992

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

149	17.104	17.512	16.424
150	17.136	17.560	16.752
151	17.120	17.608	17.016
152	17.272	17.640	17.224
153	17.432	17.712	17.424
154	17.872	17.776	17.624
155	18.000	17.792	17.848
156	17.848	17.800	18.056
157	17.864	17.792	18.240
158	17.968	17.800	18.352
159	18.112	17.832	18.456
160	18.248	17.880	18.568
161	18.392	17.960	18.720
162	18.544	18.032	18.872
163	18.688	18.120	19.024
164	18.824	18.208	19.160
165	18.952	18.320	19.304
166	19.104	18.440	19.456
167	19.216	18.584	19.624
168	19.368	18.760	19.816
169	19.520	18.952	20.032
170	19.664	19.144	20.232
171	19.832	19.344	20.440
172	20.016	19.576	20.632
173	20.184	19.776	20.832
174	20.328	19.976	21.056
175	20.456	20.144	21.224
176	20.568	20.336	21.440
177	20.680	20.472	21.640
178	20.776	20.640	21.864
179	20.944	20.840	22.136
180	22.376	22.376	22.376



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

Zone	Lumens	%Lamp	%Fixt
0-20	268.60	6.60	8.20
0-30	613.03	15.00	18.80
0-40	1110.54	27.30	34.10
0-60	2402.97	59.00	73.70
0-80	3099.7	76.10	95.10
0-90	3143.12	77.10	96.40
10-90	3075.99	75.50	94.40
20-40	841.94	20.70	25.80
20-50	1476.22	36.20	45.30
40-70	1770.92	43.50	54.30
60-80	696.72	17.10	21.40
70-80	218.23	5.40	6.70
80-90	43.43	1.10	1.30
90-110	35.99	0.90	1.10
90-120	55.09	1.40	1.70
90-130	71.42	1.80	2.20
90-150	98.67	2.40	3.00
90-180	116.30	2.90	3.60
110-180	80.30	2.00	2.50
0-180	3259.42	80.00	100.00

Total Luminaire Efficiency = 80.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	67.14
10-20	201.46
20-30	344.43
30-40	497.51
40-50	634.28
50-60	658.15
60-70	478.49
70-80	218.23
80-90	43.43
90-100	19.09
100-110	16.91
110-120	19.10
120-130	16.33
130-140	14.48
140-150	12.77
150-160	9.63
160-170	5.95
170-180	2.04

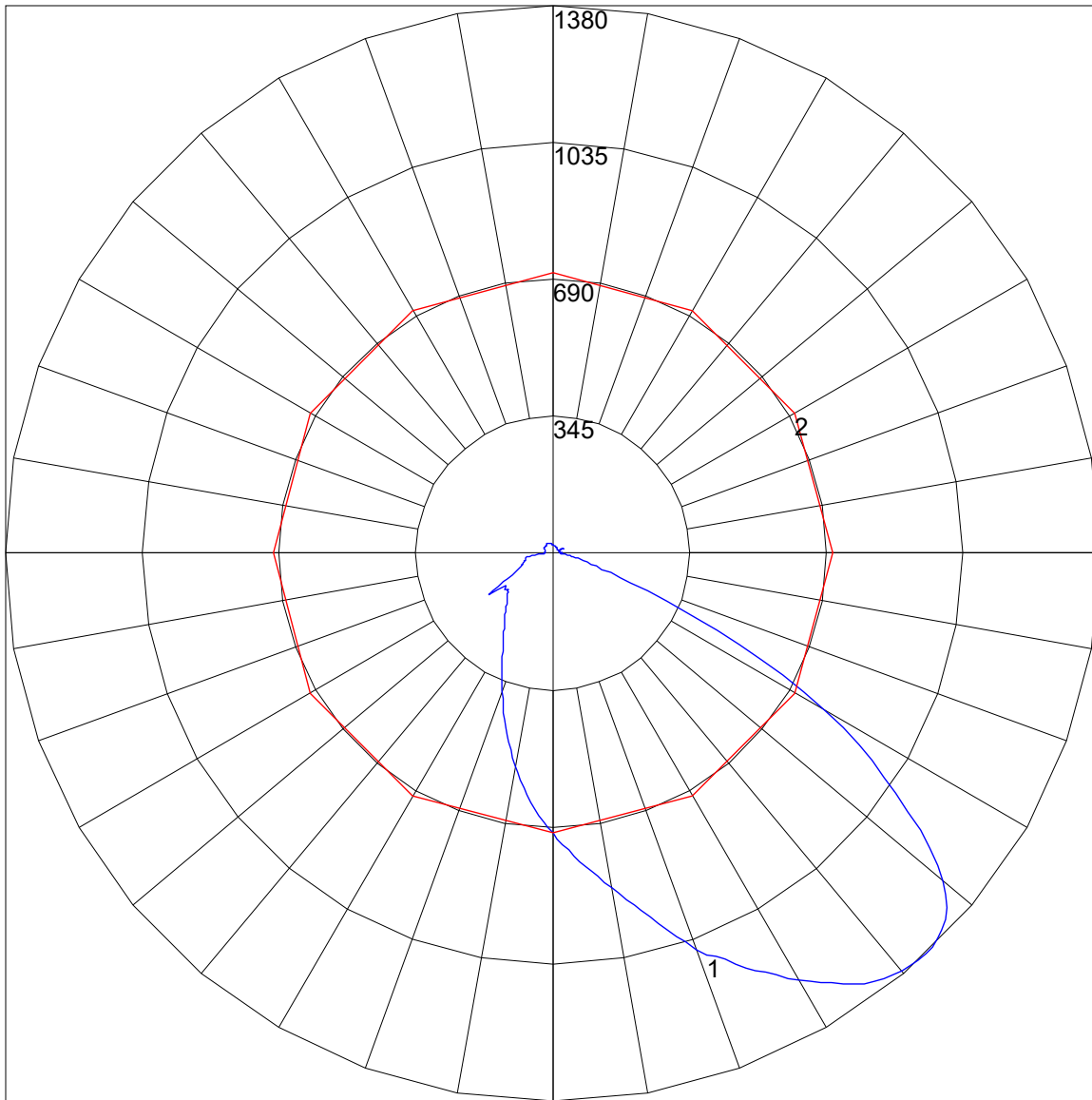
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BLS-4A-5700°K.IES**

**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	95	95	95	95	92	92	92	92	87	87	87	83	83	83	79	79	79	77
1	86	82	78	75	83	80	77	74	76	73	71	72	70	68	69	67	66	64
2	78	71	65	60	75	69	64	59	65	61	57	62	59	55	60	56	54	52
3	70	61	54	49	68	60	53	48	57	51	47	54	49	46	52	48	44	42
4	64	53	46	40	61	52	45	40	50	44	39	47	42	38	45	41	37	35
5	58	47	39	34	56	46	39	33	44	38	33	42	36	32	40	35	32	30
6	53	42	34	29	51	41	34	29	39	33	28	37	32	28	36	31	27	25
7	49	37	30	25	47	37	30	25	35	29	24	34	28	24	32	27	24	22
8	45	34	27	22	44	33	26	22	32	26	21	31	25	21	29	24	21	19
9	42	31	24	19	41	30	24	19	29	23	19	28	22	19	27	22	18	17
10	39	28	22	17	38	28	21	17	27	21	17	26	20	17	25	20	16	15

POLAR GRAPH



Maximum Candela = 1379.856 Located At Horizontal Angle = 330, Vertical Angle = 43  
# 1 - Vertical Plane Through Horizontal Angles (330 - 150) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)