



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-4A-6500°K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [TESTLAB] BEGHELLI
 [TESTDATE] 2017/9/29
 [ISSUEDATE] 2017/9/29 11:30:05
 [NEARFIELD]
 [LAMPPOSITION] "0,0"
 [OTHER]
 [MANUFAC] BEGHELLI
 [LUMCAT]
 [LUMINAIRE] BLS-4A - 6500°K

CHARACTERISTICS

Lumens Per Lamp	2962.58 (1 lamp)
Total Lamp Lumens	2962.58
Luminaire Lumens	2962
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	30.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.96
Spacing Criterion (90-270)	1.92
Spacing Criterion (Diagonal)	1.78
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	120430	172602	121314
55	73381	202489	187992
65	21960	187373	391894
75	13199	66444	87941
85	13517	21736	32943

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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	641.483	641.483	641.483	641.483	641.483	641.483	641.483	641.483	641.483	641.483
1	651.226	650.886	641.044	637.255	636.213	638.438	636.093	638.298	633.246	636.534
2	658.042	657.761	645.253	637.596	632.585	630.961	627.373	631.122	628.917	636.253
3	664.777	663.594	650.204	638.458	628.255	622.944	616.650	622.723	623.785	636.474
4	670.970	670.469	655.115	639.761	623.926	613.783	605.304	613.382	619.015	637.215
5	677.765	676.001	660.788	641.405	619.636	603.961	593.137	603.420	614.725	638.077
6	684.761	682.736	666.200	642.928	615.086	593.017	579.647	593.699	610.576	639.380
7	691.917	689.612	671.852	644.872	611.217	581.632	565.957	582.133	606.407	641.204
8	699.514	696.507	677.324	646.997	606.968	568.964	550.984	569.806	602.217	643.670
9	708.033	705.367	683.518	649.262	602.077	556.616	533.665	557.819	597.186	646.115
10	718.476	714.808	690.754	651.607	597.707	544.028	517.329	545.171	592.977	649.082
11	730.142	726.153	697.630	654.153	593.618	531.400	502.135	532.322	588.928	652.108
12	743.552	739.482	705.547	657.160	588.246	518.752	484.536	518.171	584.619	655.175
13	758.224	754.295	714.647	660.487	583.255	505.443	467.839	505.162	579.828	657.661
14	774.340	771.053	724.289	663.674	577.162	491.271	448.817	490.469	574.656	660.066
15	792.199	788.712	733.770	666.520	570.708	476.178	430.135	477.260	568.783	663.213
16	812.384	807.032	744.914	669.086	564.193	460.483	412.637	461.345	562.830	666.581
17	833.291	827.398	756.580	672.293	556.516	444.648	392.572	446.291	555.835	669.647
18	854.297	848.344	769.429	676.122	549.160	429.374	373.790	430.757	549.621	672.995
19	876.246	871.275	783.681	680.111	541.262	413.599	354.026	415.864	542.745	677.164
20	899.177	893.845	799.516	684.340	533.585	397.383	335.124	399.287	536.131	681.333
21	921.467	916.415	815.652	688.309	525.768	379.764	315.801	382.329	528.614	685.883
22	943.696	939.006	832.269	692.177	517.910	362.144	295.997	365.392	521.598	690.494
23	965.905	962.939	850.148	697.168	510.434	344.966	278.940	350.599	514.483	695.565
24	987.012	986.451	867.286	702.761	502.075	328.169	260.078	334.483	507.668	701.077
25	1008.099	1009.302	885.086	709.295	493.977	310.810	244.403	318.708	500.933	707.652
26	1027.242	1031.611	901.663	715.269	484.316	294.715	227.084	303.133	492.614	715.048
27	1044.801	1052.578	919.703	721.222	475.516	278.398	211.991	288.441	484.977	721.723
28	1059.373	1071.700	938.384	726.774	466.857	263.044	198.862	274.209	476.999	728.117
29	1072.963	1092.146	958.950	732.587	457.576	248.372	185.732	259.336	469.322	735.133
30	1084.088	1109.945	977.651	739.322	447.634	235.243	173.726	246.788	461.345	741.888
31	1092.867	1124.538	997.195	745.736	438.053	223.476	162.681	233.619	452.966	748.963
32	1100.184	1137.627	1015.455	753.033	428.592	211.911	152.579	221.773	444.086	755.678
33	1105.054	1149.273	1035.099	760.148	419.371	200.726	144.601	209.084	434.565	761.872
34	1108.302	1160.698	1054.282	767.605	409.630	189.100	137.586	197.499	424.964	767.905
35	1108.502	1169.036	1074.807	774.901	398.505	178.035	131.492	186.154	413.779	774.059
36	1104.473	1176.653	1094.150	782.197	387.421	167.632	126.621	176.171	403.256	781.015
37	1096.034	1182.486	1114.435	787.489	375.153	158.312	122.993	166.369	391.830	787.970
38	1083.025	1186.696	1134.520	794.024	364.450	148.710	121.390	156.327	381.628	795.326
39	1067.250	1190.524	1154.845	801.059	352.663	140.091	119.987	147.127	370.603	802.222
40	1043.838	1192.388	1175.952	809.037	341.659	131.452	120.267	139.249	360.942	809.799
41	1013.772	1189.702	1198.201	818.077	331.135	123.354	121.229	131.452	351.641	817.836
42	979.275	1184.611	1222.716	827.458	319.911	115.517	125.739	124.376	340.817	827.097
43	939.767	1176.453	1247.511	836.498	309.548	107.940	132.554	116.539	330.514	837.199
44	896.852	1164.166	1270.963	846.741	298.102	100.964	143.459	108.260	319.490	848.024
45	851.932	1144.562	1297.442	858.186	287.879	93.969	158.572	101.485	309.548	859.128
46	808.596	1119.346	1325.424	869.772	277.617	88.196	186.915	94.670	300.006	871.536
47	763.536	1088.798	1354.348	883.342	267.715	82.944	230.552	89.098	291.347	884.885
48	720.560	1053.640	1384.395	898.556	257.572	79.056	305.358	84.588	282.187	900.901
49	675.340	1014.473	1416.787	916.135	248.532	75.688	349.496	80.459	273.648	918.560
50	632.545	971.197	1450.001	936.781	239.752	73.263	348.193	77.793	264.808	940.970
51	586.743	925.536	1486.882	958.569	231.494	71.379	315.942	75.768	257.011	966.406
52	541.583	878.672	1520.798	982.843	223.577	70.036	256.269	74.445	249.274	992.484
53	500.973	826.696	1549.441	1009.843	215.378	68.492	205.055	73.563	241.577	1020.807

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CANDELA TABULATION - (Cont.)

54	458.498	779.211	1576.461	1039.469	207.521	66.849	190.764	71.599	233.899	1051.155
55	421.075	726.714	1597.127	1078.736	199.643	66.648	262.984	69.013	226.603	1089.400
56	385.236	674.518	1611.078	1124.077	192.848	67.169	298.403	67.309	219.427	1137.366
57	349.436	618.053	1616.731	1177.315	186.955	64.203	299.365	66.768	213.173	1195.555
58	315.000	565.396	1613.884	1234.783	181.122	60.474	247.690	64.162	206.940	1259.417
59	280.102	518.311	1601.437	1301.230	175.069	57.407	181.323	60.855	200.686	1333.241
60	235.243	474.133	1578.506	1370.404	169.496	55.142	143.719	58.229	195.635	1410.653
61	186.434	433.503	1548.539	1441.842	164.084	54.601	116.278	57.448	190.483	1488.646
62	153.601	394.837	1510.134	1506.065	158.933	54.220	97.076	57.989	185.652	1558.963
63	132.254	350.318	1466.297	1566.860	154.483	52.617	88.035	55.644	181.102	1625.671
64	112.029	291.287	1412.417	1617.673	150.154	49.450	81.882	53.459	176.632	1680.593
65	92.846	239.332	1345.088	1656.920	147.067	47.686	77.512	51.334	172.844	1719.319
66	79.557	207.040	1281.546	1669.267	145.423	45.942	74.185	49.831	171.781	1733.109
67	69.354	174.969	1208.785	1658.744	145.202	44.719	71.399	48.728	171.922	1709.818
68	62.058	147.167	1134.079	1616.571	146.044	43.797	68.753	47.465	173.285	1625.290
69	56.526	123.194	1052.217	1515.947	148.831	43.156	66.889	46.283	176.773	1481.130
70	51.595	103.871	960.213	1341.219	153.060	42.615	67.811	45.561	182.084	1262.985
71	47.305	88.777	858.647	1106.016	158.191	42.214	67.370	44.980	189.922	920.023
72	43.497	76.851	737.839	760.629	163.503	41.673	65.044	44.619	197.058	583.696
73	40.189	66.889	593.418	531.400	164.726	41.272	61.396	44.138	200.024	374.772
74	37.062	58.490	442.683	304.075	156.287	41.051	59.151	43.537	190.824	272.004
75	34.176	51.695	292.389	227.706	136.764	40.791	59.131	42.995	164.966	209.886
76	31.430	45.902	200.565	177.374	111.808	40.891	57.828	42.554	129.528	142.897
77	27.361	40.811	125.519	121.470	88.256	41.011	53.659	41.773	97.958	83.205
78	25.677	36.361	79.396	71.038	68.713	40.951	48.688	40.570	72.962	52.617
79	24.294	32.753	59.011	45.902	53.399	39.868	43.978	39.027	55.463	41.111
80	22.049	30.067	46.543	38.486	42.234	37.684	33.815	36.962	43.096	35.579
81	19.964	27.641	38.165	34.857	34.717	34.497	28.343	34.597	35.619	31.590
82	17.759	25.176	32.492	32.011	29.445	31.249	24.855	31.650	30.047	28.964
83	15.414	21.949	28.584	30.889	26.138	27.962	23.091	29.145	26.559	26.920
84	13.470	18.882	25.176	31.249	23.212	25.056	21.588	26.599	23.652	24.514
85	11.786	16.116	21.788	28.724	20.746	22.270	19.964	24.615	21.127	21.588
86	10.584	13.791	18.942	25.456	18.341	19.784	18.341	22.550	18.822	18.701
87	9.441	12.047	15.815	23.091	16.396	17.338	17.058	20.285	16.737	16.236
88	8.820	10.924	14.272	21.387	15.194	15.194	16.076	18.080	15.514	14.332
89	8.459	10.624	13.390	19.664	14.372	13.450	14.853	15.434	14.913	13.530
90	8.218	10.584	13.530	18.381	13.991	12.227	14.171	14.091	14.713	14.011
91	7.958	10.483	13.991	18.221	13.951	11.686	13.270	13.330	14.713	14.312
92	7.797	10.403	14.492	18.421	14.272	11.726	13.049	13.370	15.033	14.532
93	7.797	10.463	15.033	18.641	14.552	11.826	13.049	13.530	15.334	12.788
94	7.857	10.964	15.895	18.701	14.753	11.886	13.049	13.610	15.514	13.209
95	7.978	11.806	16.577	18.421	14.873	11.886	13.049	13.630	15.695	13.791
96	8.118	12.468	16.998	18.942	15.094	11.886	13.109	13.690	15.895	14.252
97	8.018	11.967	16.817	19.964	15.354	11.906	13.149	13.751	16.176	14.432
98	7.737	10.984	15.795	21.528	15.534	11.987	13.229	13.791	16.396	14.753
99	7.436	10.303	13.991	21.728	15.635	12.147	13.149	13.931	16.577	14.853
100	7.236	9.922	12.909	22.209	15.575	12.287	12.949	14.091	16.657	14.532
101	7.076	9.621	11.886	20.666	15.575	12.448	12.829	14.272	16.577	14.372
102	6.976	9.281	10.924	18.080	15.595	12.668	12.829	14.492	16.617	14.412
103	6.976	9.020	10.644	17.539	15.755	12.889	12.848	14.753	16.617	14.111
104	7.016	8.719	10.584	16.777	16.016	13.149	12.989	15.033	16.777	13.831
105	7.076	8.519	10.584	16.076	16.356	13.430	13.229	15.354	17.118	14.111
106	7.196	8.439	10.584	15.976	16.657	13.771	13.470	15.695	17.399	14.472
107	7.356	8.338	10.543	16.236	16.918	14.091	13.831	16.076	17.719	14.813
108	7.497	8.298	10.463	16.557	17.218	14.472	14.171	16.436	18.000	15.094
109	7.577	8.238	10.423	16.837	17.499	14.793	14.532	16.817	18.301	15.374

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110	7.677	8.178	10.343	17.118	17.759	15.174	14.873	17.178	18.541	15.635
111	7.697	8.118	10.263	17.399	17.980	15.434	15.194	17.539	18.822	15.855
112	7.757	8.058	10.203	17.699	18.221	15.795	15.514	17.920	19.082	16.076
113	7.817	8.058	10.163	17.940	18.461	16.116	15.815	18.221	19.343	16.236
114	7.897	8.018	10.143	18.180	18.621	16.436	16.196	18.561	19.564	16.436
115	7.958	8.018	10.102	18.381	18.762	16.697	16.517	18.882	19.744	16.557
116	8.078	7.958	10.042	18.541	18.882	17.018	16.857	19.203	19.944	16.657
117	8.138	7.958	10.002	18.641	18.982	17.278	17.178	19.523	20.065	16.737
118	8.218	8.018	10.002	18.701	19.042	17.559	17.459	19.804	20.205	16.817
119	8.278	8.018	9.982	18.802	19.102	17.779	17.779	20.065	20.305	16.857
120	8.338	8.058	10.002	18.822	19.102	17.940	18.040	20.285	20.405	16.978
121	8.399	8.118	10.002	18.862	19.102	18.100	18.301	20.506	20.465	17.018
122	8.459	8.218	10.042	18.922	19.102	18.261	18.501	20.726	20.526	17.118
123	8.559	8.278	10.042	18.982	19.042	18.421	18.722	20.947	20.566	17.218
124	8.659	8.338	10.082	19.082	19.042	18.561	18.942	21.167	20.586	17.298
125	8.719	8.459	10.102	19.142	18.982	18.722	19.203	21.387	20.586	17.399
126	8.840	8.599	10.102	19.243	18.942	18.862	19.423	21.548	20.626	17.539
127	8.940	8.759	10.163	19.303	18.942	18.982	19.644	21.728	20.626	17.599
128	9.020	8.900	10.243	19.403	18.942	19.082	19.824	21.889	20.626	17.699
129	9.140	9.020	10.303	19.483	18.942	19.203	20.024	22.049	20.586	17.779
130	9.241	9.160	10.403	19.584	18.982	19.303	20.205	22.169	20.566	17.880
131	9.381	9.281	10.483	19.644	19.082	19.403	20.365	22.270	20.506	18.000
132	9.501	9.441	10.624	19.784	19.183	19.463	20.506	22.370	20.465	18.140
133	9.621	9.561	10.784	19.904	19.263	19.523	20.626	22.430	20.405	18.261
134	9.762	9.701	10.884	20.105	19.463	19.584	20.726	22.470	20.365	18.461
135	9.882	9.822	11.044	20.245	19.624	19.644	20.826	22.470	20.345	18.621
136	10.042	9.942	11.185	20.465	19.804	19.664	20.886	22.470	20.305	18.802
137	10.203	10.102	11.345	20.666	19.984	19.744	20.906	22.470	20.245	18.942
138	10.343	10.243	11.506	20.846	20.205	19.804	20.947	22.470	20.185	19.102
139	10.483	10.343	11.626	21.007	20.405	19.824	20.947	22.390	20.125	19.263
140	10.644	10.503	11.746	21.127	20.586	19.904	20.947	22.370	20.105	19.403
141	10.804	10.664	11.826	21.287	20.786	19.984	20.947	22.330	20.065	19.564
142	10.984	10.804	11.967	21.428	20.947	20.065	20.947	22.270	20.065	19.644
143	11.145	10.924	12.067	21.548	21.127	20.145	20.947	22.169	20.024	19.744
144	11.345	11.044	12.147	21.668	21.287	20.205	20.947	22.109	20.024	19.824
145	11.526	11.185	12.287	21.768	21.448	20.305	20.947	22.009	20.024	19.944
146	11.726	11.305	12.408	21.828	21.608	20.365	20.906	21.929	20.024	19.964
147	11.906	11.405	12.528	21.889	21.728	20.465	20.886	21.828	20.024	20.065
148	12.107	11.526	12.668	21.949	21.849	20.566	20.846	21.728	20.024	20.105
149	12.307	11.646	12.768	21.989	21.949	20.626	20.846	21.628	20.065	20.125
150	12.508	11.746	12.909	21.989	22.009	20.686	20.826	21.588	20.065	20.145
151	12.728	11.886	13.049	21.989	22.109	20.786	20.826	21.468	20.105	20.145
152	12.909	12.047	13.169	21.989	22.209	20.886	20.826	21.387	20.105	20.145
153	13.109	12.147	13.330	21.989	22.249	20.947	20.826	21.307	20.105	20.125
154	13.290	12.287	13.450	21.989	22.310	21.047	20.846	21.267	20.105	20.105
155	13.470	12.448	13.610	21.949	22.330	21.107	20.846	21.207	20.105	20.065
156	13.690	12.608	13.771	21.949	22.330	21.167	20.906	21.127	20.065	20.024
157	13.891	12.768	13.931	21.949	22.370	21.207	20.947	21.067	20.065	19.984
158	14.091	12.949	14.091	21.929	22.370	21.267	21.007	21.047	20.065	19.984
159	14.312	13.109	14.272	21.929	22.370	21.287	21.047	20.987	20.024	19.984
160	14.532	13.270	14.432	21.889	22.330	21.307	21.067	20.906	19.984	20.024
161	14.713	13.470	14.592	21.849	22.310	21.367	21.067	20.886	19.964	20.105
162	14.933	13.710	14.753	21.788	22.249	21.367	21.107	20.846	19.904	20.145
163	15.174	13.931	14.933	21.728	22.149	21.367	21.127	20.826	19.824	20.205
164	15.354	14.151	15.134	21.628	22.109	21.307	21.107	20.746	19.784	20.285
165	15.595	14.412	15.334	21.548	22.009	21.307	21.107	20.686	19.664	20.365

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CANDELA TABULATION - (Cont.)

166	15.815	14.693	15.514	21.448	21.949	21.267	21.107	20.626	19.584	20.445
167	16.116	14.933	15.655	21.367	21.849	21.227	21.067	20.506	19.483	20.506
168	16.296	15.174	15.815	21.267	21.768	21.207	21.007	20.445	19.363	20.526
169	16.517	15.354	15.976	21.167	21.668	21.127	20.906	20.345	19.263	20.566
170	16.777	15.575	16.176	21.067	21.588	21.067	20.826	20.205	19.183	20.586
171	17.018	15.815	16.356	21.047	21.468	20.987	20.746	20.105	19.082	20.626
172	17.278	16.056	16.577	21.007	21.428	20.906	20.666	19.944	18.942	20.626
173	17.459	16.276	16.737	20.987	21.367	20.786	20.526	19.784	18.862	20.666
174	17.599	16.497	16.918	20.947	21.267	20.686	20.305	19.584	18.722	20.666
175	17.779	16.737	17.118	20.947	21.167	20.566	20.105	19.363	18.641	20.686
176	18.040	17.018	17.298	20.947	21.047	20.445	19.884	19.142	18.501	20.746
177	18.301	17.379	17.539	20.947	20.987	20.285	19.724	18.942	18.381	20.826
178	18.561	17.699	17.759	20.947	20.886	20.125	19.523	18.722	18.321	20.846
179	18.862	18.040	18.000	20.947	20.786	19.984	19.343	18.501	18.160	20.886
180	19.102	19.102	19.102	19.102	19.102	19.102	19.102	19.102	19.102	19.102

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	641.483	641.483	641.483
1	643.670	651.166	651.226
2	646.917	656.859	658.042
3	651.066	663.293	664.777
4	655.316	669.427	670.970
5	660.006	675.019	677.765
6	664.756	680.772	684.761
7	669.166	686.244	691.917
8	673.797	692.618	699.514
9	678.587	699.574	708.033
10	683.919	707.511	718.476
11	689.391	716.572	730.142
12	694.863	727.335	743.552
13	701.338	739.362	758.224
14	708.894	752.752	774.340
15	717.433	766.823	792.199
16	726.995	782.718	812.384
17	736.957	799.556	833.291
18	747.400	817.776	854.297
19	759.447	837.580	876.246
20	772.255	857.725	899.177
21	786.226	878.471	921.467
22	799.816	899.418	943.696
23	815.191	920.725	965.905
24	830.344	942.293	987.012
25	846.039	963.540	1008.099
26	861.654	984.707	1027.242
27	877.308	1005.593	1044.801
28	893.284	1025.758	1059.373
29	910.101	1044.400	1072.963
30	926.378	1061.097	1084.088
31	942.593	1077.313	1092.867
32	958.509	1092.567	1100.184
33	976.369	1106.437	1105.054
34	991.783	1118.384	1108.302
35	1009.683	1128.787	1108.502
36	1026.680	1138.569	1104.473

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CANDELA TABULATION - (Cont.)

37	1044.059	1145.785	1096.034
38	1061.397	1151.177	1083.025
39	1079.578	1155.446	1067.250
40	1098.480	1156.208	1043.838
41	1118.604	1152.560	1013.772
42	1137.847	1145.645	979.275
43	1158.794	1133.497	939.767
44	1181.324	1117.201	896.852
45	1205.698	1095.333	851.932
46	1230.553	1070.037	808.596
47	1257.252	1039.609	763.536
48	1282.549	1001.083	720.560
49	1311.012	961.736	675.340
50	1338.152	918.721	632.545
51	1366.575	875.124	586.743
52	1393.836	830.525	541.583
53	1416.566	781.175	500.973
54	1436.751	730.482	458.498
55	1451.063	677.465	421.075
56	1460.584	621.741	385.236
57	1461.887	565.997	349.436
58	1457.357	515.585	315.000
59	1447.555	465.875	280.102
60	1430.116	423.260	235.243
61	1406.684	381.988	186.434
62	1374.874	338.873	153.601
63	1329.032	285.875	132.254
64	1272.526	231.955	112.029
65	1215.640	200.986	92.846
66	1158.954	170.278	79.557
67	1090.642	143.779	69.354
68	1013.190	118.964	62.058
69	930.767	99.762	56.526
70	834.894	84.468	51.595
71	737.819	73.403	47.305
72	625.750	65.024	43.497
73	473.432	58.610	40.189
74	321.434	53.519	37.062
75	201.247	48.508	34.176
76	129.868	43.456	31.430
77	89.459	39.307	27.361
78	69.494	35.699	25.677
79	55.163	32.653	24.294
80	45.140	30.267	22.049
81	38.365	27.200	19.964
82	33.174	24.073	17.759
83	28.784	20.686	15.414
84	25.056	17.298	13.470
85	22.149	14.472	11.786
86	19.403	12.367	10.584
87	16.497	10.884	9.441
88	14.793	9.982	8.820
89	14.793	9.942	8.459
90	15.033	9.882	8.218
91	15.374	9.722	7.958
92	15.815	9.701	7.797

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CANDELA TABULATION - (Cont.)

93	16.296	9.722	7.797
94	17.118	10.163	7.857
95	18.160	10.884	7.978
96	17.820	11.185	8.118
97	17.078	10.624	8.018
98	15.895	9.942	7.737
99	14.693	9.541	7.436
100	13.610	9.321	7.236
101	12.287	9.160	7.076
102	11.967	8.980	6.976
103	11.906	8.840	6.976
104	11.906	8.599	7.016
105	11.967	8.519	7.076
106	12.047	8.499	7.196
107	12.047	8.499	7.356
108	11.987	8.499	7.497
109	11.947	8.499	7.577
110	11.826	8.459	7.677
111	11.826	8.459	7.697
112	11.886	8.459	7.757
113	11.967	8.459	7.817
114	12.107	8.519	7.897
115	12.147	8.599	7.958
116	12.227	8.659	8.078
117	12.307	8.719	8.138
118	12.448	8.780	8.218
119	12.608	8.840	8.278
120	12.768	8.940	8.338
121	12.949	9.060	8.399
122	13.149	9.180	8.459
123	13.290	9.341	8.559
124	13.470	9.461	8.659
125	13.690	9.621	8.719
126	13.831	9.782	8.840
127	13.991	9.942	8.940
128	14.171	10.102	9.020
129	14.332	10.263	9.140
130	14.492	10.463	9.241
131	14.652	10.624	9.381
132	14.813	10.784	9.501
133	14.973	10.964	9.621
134	15.134	11.125	9.762
135	15.274	11.265	9.882
136	15.374	11.466	10.042
137	15.514	11.626	10.203
138	15.655	11.786	10.343
139	15.755	11.947	10.483
140	15.895	12.127	10.644
141	16.016	12.287	10.804
142	16.116	12.468	10.984
143	16.196	12.668	11.145
144	16.336	12.829	11.345
145	16.436	12.989	11.526
146	16.517	13.169	11.726
147	16.577	13.370	11.906
148	16.677	13.530	12.107

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CANDELA TABULATION - (Cont.)

149	16.777	13.690	12.307
150	16.857	13.831	12.508
151	16.978	13.991	12.728
152	17.018	14.171	12.909
153	17.158	14.332	13.109
154	17.218	14.492	13.290
155	17.298	14.652	13.470
156	17.379	14.853	13.690
157	17.499	15.013	13.891
158	17.599	15.194	14.091
159	17.699	15.354	14.312
160	17.820	15.534	14.532
161	17.940	15.735	14.713
162	18.080	15.915	14.933
163	18.180	16.116	15.174
164	18.321	16.336	15.354
165	18.481	16.557	15.595
166	18.641	16.777	15.815
167	18.762	16.998	16.116
168	18.922	17.218	16.296
169	19.042	17.439	16.517
170	19.203	17.659	16.777
171	19.363	17.920	17.018
172	19.523	18.100	17.278
173	19.644	18.321	17.459
174	19.804	18.541	17.599
175	19.964	18.802	17.779
176	20.125	19.022	18.040
177	20.285	19.243	18.301
178	20.405	19.463	18.561
179	20.526	19.724	18.862
180	19.102	19.102	19.102

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	242.18	8.20	8.20
0-30	551.06	18.60	18.60
0-40	987.22	33.30	33.30
0-60	2109.33	71.20	71.20
0-80	2842.6	96.00	96.00
0-90	2866.22	96.70	96.80
10-90	2805.41	94.70	94.70
20-40	745.05	25.10	25.20
20-50	1279.63	43.20	43.20
40-70	1682.14	56.80	56.80
60-80	733.28	24.80	24.80
70-80	173.24	5.80	5.80
80-90	23.61	0.80	0.80
90-110	28.59	1.00	1.00
90-120	42.80	1.40	1.40
90-130	56.70	1.90	1.90
90-150	80.54	2.70	2.70
90-180	96.18	3.20	3.20
110-180	67.59	2.30	2.30
0-180	2962.4	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.81
10-20	181.37
20-30	308.89
30-40	436.16
40-50	534.58
50-60	587.52
60-70	560.04
70-80	173.24
80-90	23.61
90-100	14.86
100-110	13.73
110-120	14.21
120-130	13.90
130-140	12.83
140-150	11.02
150-160	8.44
160-170	5.35
170-180	1.84

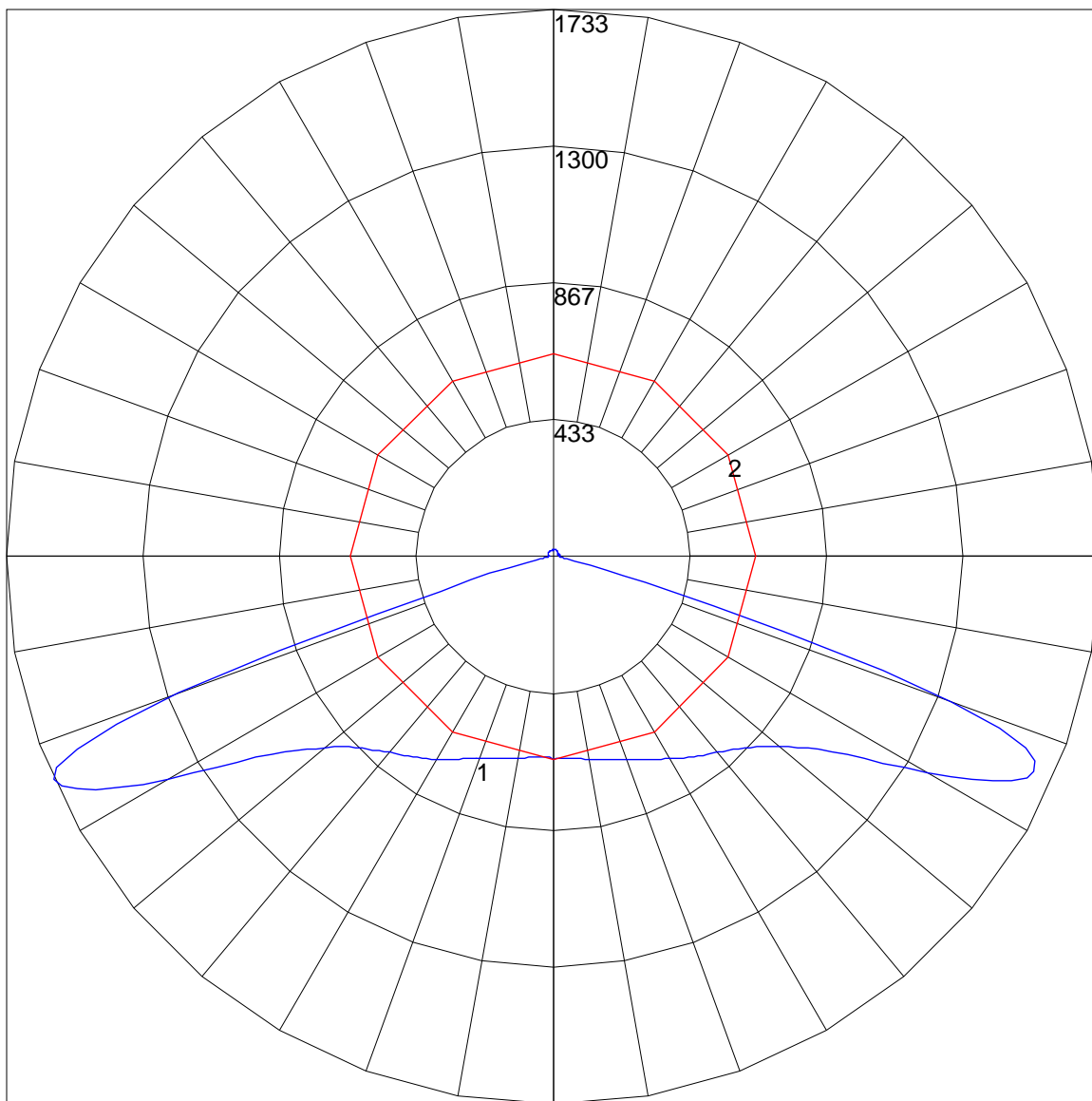
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	86	87	84	82	80
2	97	88	81	75	94	86	79	74	82	76	71	78	73	69	74	71	67	65
3	87	76	67	60	84	74	66	59	71	64	58	67	61	57	64	59	55	53
4	79	66	57	49	76	65	56	49	62	54	48	59	52	47	56	51	46	43
5	72	58	48	41	69	57	48	41	54	46	40	52	45	39	50	44	39	36
6	66	52	42	35	64	50	41	35	48	40	34	46	39	34	44	38	33	31
7	61	46	37	30	59	45	36	30	43	35	30	42	34	29	40	34	29	27
8	56	42	33	27	54	41	32	26	39	32	26	38	31	26	36	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	34	28	23	33	27	22	20
10	49	35	26	21	47	34	26	21	33	26	21	32	25	20	31	24	20	18

POLAR GRAPH



Maximum Candela = 1733.109 Located At Horizontal Angle = 270, Vertical Angle = 66
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)