



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-8A-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-8A - 4000°K

[BALLAST] -

[BALLASTCAT] -

CHARACTERISTICS

Lumens Per Lamp	5962.4 (1 lamp)
Total Lamp Lumens	5962.4
Luminaire Lumens	5962
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	83
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	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045
1	2031.567	2032.103	2038.602	2038.895	2043.666	2042.651	2039.617	2035.499	2034.367	2025.185
2	2026.434	2028.405	2038.007	2033.118	2038.963	2039.022	2030.376	2022.199	2021.253	2012.480
3	2020.121	2019.340	2027.097	2016.657	2026.493	2025.839	2014.812	1997.219	1999.551	1996.624
4	2014.812	2009.563	2015.944	2002.586	2008.733	2013.378	2000.859	1967.643	1979.450	1976.171
5	2011.709	2004.372	2008.011	1993.589	2000.381	2011.114	1985.119	1941.170	1956.500	1966.043
6	2003.718	2000.556	2007.533	1990.662	2003.240	2015.232	1974.981	1914.522	1911.302	1936.526
7	1993.052	1994.360	2013.261	1990.008	2015.466	2032.220	1964.072	1863.840	1845.836	1882.145
8	1987.744	1991.852	2022.560	1989.949	2032.396	2060.723	1936.164	1821.091	1796.881	1834.449
9	1985.715	1991.852	2028.581	1988.935	2047.784	2067.583	1889.064	1793.369	1768.447	1800.638
10	1987.686	1997.336	2033.177	1989.949	2066.382	2057.561	1832.956	1763.139	1756.221	1764.807
11	1992.096	2004.498	2036.211	1994.721	2078.014	2032.933	1778.878	1723.961	1715.199	1712.096
12	2002.166	2010.636	2038.895	1997.873	2071.993	1996.799	1733.622	1673.221	1663.092	1646.455
13	2007.836	2012.129	2038.660	1998.946	2062.928	1950.772	1697.430	1630.833	1631.311	1609.073
14	2012.305	2018.208	2038.660	1999.961	2051.355	1912.433	1669.825	1599.647	1601.374	1585.283
15	2013.319	2027.751	2028.942	1996.565	2035.557	1886.917	1663.151	1574.725	1571.271	1569.534
16	2013.378	2036.748	2017.135	1996.204	2014.032	1883.931	1649.558	1558.088	1540.027	1553.375
17	2024.414	2042.359	2007.533	1997.580	1993.648	1889.834	1611.220	1544.613	1506.635	1534.543
18	2041.998	2046.467	1999.073	2000.624	1975.342	1892.108	1579.673	1529.830	1474.854	1514.149
19	2054.995	2051.297	1992.809	2009.680	1964.072	1887.395	1562.977	1514.149	1440.272	1487.559
20	2062.089	2051.063	1992.448	2018.091	1964.072	1872.670	1551.951	1491.608	1401.817	1453.572
21	2072.344	2045.637	1992.096	2020.599	1963.828	1853.408	1544.798	1455.534	1350.305	1413.741
22	2076.638	2041.520	1978.143	2019.701	1969.497	1846.734	1535.675	1412.248	1285.133	1367.469
23	2077.653	2040.036	1962.881	2019.994	2001.454	1851.203	1525.117	1363.303	1213.638	1317.929
24	2064.958	2035.323	1953.572	2026.434	2027.390	1863.430	1515.281	1309.284	1131.604	1260.982
25	2031.859	2031.801	1940.224	2030.913	2024.590	1873.266	1503.415	1253.176	1038.465	1201.782
26	2000.556	2024.765	1935.091	2043.910	2024.346	1874.036	1489.403	1187.409	938.594	1142.991
27	1965.799	2009.563	1933.305	2041.041	2026.317	1867.655	1473.664	1120.626	845.700	1091.597
28	1933.247	1989.588	1930.915	2013.680	2025.243	1855.136	1457.271	1060.889	762.290	1047.052
29	1899.739	1963.057	1926.504	1994.594	2017.437	1845.300	1438.662	1005.318	689.604	996.731
30	1872.963	1931.217	1922.094	1985.949	1997.522	1842.558	1425.363	952.606	623.124	942.595
31	1847.739	1897.475	1914.580	1975.225	1992.155	1841.309	1416.902	905.447	565.943	888.634
32	1822.466	1859.546	1906.296	1964.726	1994.116	1844.822	1416.902	856.258	529.156	841.650
33	1795.330	1822.408	1894.664	1965.438	2006.167	1865.333	1417.556	809.567	498.751	798.238
34	1774.409	1790.207	1882.262	1985.119	2006.762	1887.873	1417.254	768.730	473.293	758.953
35	1751.927	1763.139	1863.840	2008.372	1997.873	1896.636	1416.902	728.128	453.260	720.790
36	1722.888	1734.997	1856.385	2022.023	1982.797	1896.333	1416.483	692.824	434.593	685.193
37	1688.433	1704.524	1849.652	2019.340	1970.990	1898.548	1412.970	658.896	420.523	647.158
38	1646.152	1671.201	1840.470	1999.844	1961.027	1905.993	1401.163	626.881	407.106	606.848
39	1584.210	1626.422	1824.906	1977.781	1953.572	1913.868	1385.599	595.822	392.684	573.457
40	1518.081	1576.394	1806.249	1967.770	1947.435	1915.595	1363.478	564.870	380.935	540.368
41	1462.032	1523.028	1788.958	1970.932	1939.502	1911.419	1341.240	536.494	367.879	512.939
42	1405.271	1459.173	1769.521	1983.929	1929.724	1900.217	1319.178	512.168	355.292	489.627
43	1355.194	1401.573	1744.833	1985.471	1920.064	1889.776	1301.350	492.252	344.626	474.786
44	1313.392	1341.475	1712.223	1981.002	1913.214	1877.315	1289.846	474.786	336.040	462.442
45	1281.972	1287.572	1670.001	1974.327	1906.832	1866.230	1276.488	461.662	328.760	450.577
46	1258.953	1245.067	1627.135	1972.415	1897.533	1848.403	1264.261	452.362	322.379	439.843
47	1257.284	1211.793	1585.039	1977.489	1889.717	1829.619	1251.029	442.761	316.182	430.895
48	1281.669	1198.201	1535.675	1982.612	1878.984	1814.475	1237.730	434.476	308.903	426.963
49	1373.256	1195.937	1469.009	1984.758	1864.620	1797.662	1224.498	427.441	303.897	421.655
50	1507.172	1214.838	1393.825	1984.466	1856.687	1780.069	1207.861	423.626	300.736	417.478
51	1483.324	1325.023	1342.431	1980.826	1850.305	1758.670	1181.681	421.176	296.384	414.443
52	1288.646	1431.871	1308.620	1977.303	1845.953	1723.132	1147.343	418.854	295.730	409.077
53	1102.623	1365.625	1296.940	1974.805	1848.344	1682.764	1102.203	415.751	295.369	401.446

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54	885.951	1173.279	1295.027	1967.526	1856.921	1634.287	1047.169	412.531	295.730	392.381
55	718.819	1010.860	1294.013	1960.139	1861.751	1584.327	989.159	406.032	296.091	383.316
56	619.426	849.993	1304.805	1967.048	1849.476	1532.035	931.500	393.279	297.516	374.075
57	553.131	748.161	1358.824	1948.274	1809.108	1473.303	876.115	379.384	300.921	357.799
58	511.446	674.997	1331.814	1923.284	1754.669	1405.632	822.388	359.585	304.736	341.582
59	476.454	636.004	1241.486	1882.448	1686.696	1342.011	776.058	341.523	313.499	329.892
60	450.157	600.349	1139.527	1819.539	1614.849	1282.742	742.013	329.238	321.725	323.510
61	429.588	572.266	1034.709	1742.208	1529.234	1227.113	706.544	322.379	330.965	322.505
62	410.443	544.603	964.238	1618.723	1443.493	1176.499	658.008	319.285	330.556	318.329
63	395.660	515.505	921.840	1510.216	1356.619	1125.573	590.270	313.919	327.453	304.736
64	375.393	490.223	891.376	1431.686	1301.409	1064.704	517.476	301.995	318.212	284.108
65	356.365	468.043	868.299	1311.723	1289.544	987.549	448.908	284.577	303.126	264.310
66	333.171	445.268	855.126	1201.899	1314.709	909.682	390.117	266.574	299.545	251.605
67	329.063	432.808	846.119	1108.585	1293.125	837.054	358.756	253.693	304.971	253.157
68	317.490	421.303	829.004	1058.742	1192.063	766.876	345.036	250.951	309.381	260.914
69	312.191	407.467	812.845	1079.126	1070.071	684.120	317.373	250.590	301.097	259.236
70	300.384	389.337	771.892	1031.313	935.618	613.464	279.395	241.477	278.859	242.960
71	288.870	377.832	707.851	935.023	816.007	551.990	244.697	215.355	252.444	216.731
72	281.835	359.771	634.336	839.260	742.550	497.317	217.560	190.736	227.943	204.211
73	267.950	347.661	567.319	712.681	758.767	450.450	202.182	187.750	196.639	210.466
74	258.884	337.230	507.094	588.601	784.469	393.874	188.882	200.572	156.691	226.030
75	252.620	319.285	461.544	493.501	725.445	332.156	180.422	214.643	122.402	215.179
76	252.922	299.662	426.192	472.454	623.719	280.352	172.547	202.299	119.006	174.392
77	249.585	271.521	403.534	489.091	532.855	250.181	157.999	159.726	127.886	121.094
78	192.161	254.171	378.066	458.685	482.953	226.928	141.957	110.185	125.681	81.975
79	135.877	239.867	351.418	396.431	414.736	192.639	122.704	79.292	110.654	73.632
80	100.047	216.428	316.065	323.218	315.938	159.550	108.214	78.277	92.885	78.814
81	95.509	167.356	273.912	280.225	321.842	137.009	108.448	86.747	80.190	78.941
82	100.935	127.174	237.056	277.844	331.561	122.041	104.038	82.395	68.802	72.501
83	58.371	89.733	211.959	238.198	262.700	108.634	95.509	67.846	32.611	60.986
84	29.683	85.078	197.713	193.595	191.390	91.040	77.087	50.858	8.645	51.209
85	23.721	66.948	171.054	185.720	137.127	66.597	50.380	44.769	0.000	45.247
86	16.510	34.816	137.195	163.482	104.038	45.725	32.015	43.939	0.000	33.381
87	10.431	23.663	108.390	113.522	78.638	31.957	22.355	34.816	0.000	20.628
88	6.255	18.598	87.820	84.064	63.016	26.473	20.384	21.282	0.000	13.290
89	2.439	12.753	73.691	77.682	54.673	25.751	18.891	12.929	0.000	9.055
90	0.000	7.572	50.262	64.206	46.564	21.106	12.519	6.021	0.000	0.654
91	0.000	2.381	32.669	42.388	35.118	13.349	5.425	0.000	0.000	0.000
92	0.000	0.059	13.651	25.331	24.980	6.791	0.000	0.000	0.000	0.000
93	0.000	0.000	4.049	12.929	14.305	0.654	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	2.742	5.299	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	0.293	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.293	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.947	0.654	0.293	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.654	0.293	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.654	1.005	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.654	0.654	0.654	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.654	0.654	0.654	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.654	0.654	1.005	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.293
106	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

110	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.293
124	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.000	0.000	0.654
125	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.293	0.000	0.654
126	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.947	0.000	0.654
127	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.654
128	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.654
129	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.654
130	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
131	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
132	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
133	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
134	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
135	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
136	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
137	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
138	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
139	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
140	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
141	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
142	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
143	0.000	0.000	0.000	0.000	0.947	0.654	1.005	0.654	0.000	0.293
144	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.000	0.654
145	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
146	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
147	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
148	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
149	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
150	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
151	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
152	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.293
153	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
154	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
155	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
156	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
157	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
158	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
159	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
160	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
161	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
162	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
163	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
164	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
165	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000

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CANDELA TABULATION - (Cont.)

166	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
167	0.000	0.000	0.000	0.000	0.947	0.654	0.654	0.654	0.293	0.000
168	0.000	0.000	0.000	0.000	0.654	0.654	0.654	0.654	0.293	0.000
169	0.000	0.000	0.000	0.000	0.654	0.654	0.654	0.654	0.293	0.000
170	0.000	0.000	0.000	0.000	0.654	0.654	0.654	0.654	0.293	0.000
171	0.000	0.000	0.000	0.000	0.654	0.654	0.293	0.654	0.293	0.000
172	0.000	0.000	0.293	0.000	0.654	0.654	0.293	0.654	0.293	0.000
173	0.000	0.000	0.293	0.000	0.654	0.654	0.293	0.654	0.293	0.000
174	0.000	0.000	0.293	0.000	0.947	0.654	0.293	0.654	0.293	0.000
175	0.000	0.000	0.293	0.000	0.293	0.654	0.293	0.654	0.000	0.000
176	0.000	0.000	0.293	0.000	0.293	0.654	0.293	0.654	0.000	0.000
177	0.000	0.000	0.293	0.000	0.293	0.654	0.293	0.654	0.000	0.000
178	0.000	0.000	0.293	0.654	0.293	0.654	0.293	0.654	0.000	0.000
179	0.000	0.293	0.293	0.654	0.293	0.654	0.293	0.654	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	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045	2033.045
1	2016.901	2008.489	1998.888	2004.616	2013.973	2024.346	2031.567
2	2008.197	1998.292	1989.413	1989.706	2002.527	2018.325	2026.434
3	1995.189	1999.903	1988.691	1988.281	1997.043	2013.319	2020.121
4	1995.189	2017.915	1997.404	1982.973	1990.428	2005.328	2014.812
5	1994.721	2038.241	2015.642	1978.972	1988.935	2002.947	2011.709
6	1987.081	2058.401	2029.595	1988.993	1999.903	2011.475	2003.718
7	1959.778	2068.890	2045.159	2001.698	2015.105	2025.780	1993.052
8	1900.870	2061.494	2056.908	2007.475	2029.420	2036.631	1987.744
9	1833.971	2040.212	2066.743	2016.179	2040.632	2047.072	1985.715
10	1772.204	2005.445	2069.788	2026.375	2046.174	2049.745	1987.686
11	1720.800	1959.720	2068.832	2030.913	2047.003	2049.453	1992.096
12	1685.213	1913.751	2059.767	2032.337	2040.924	2049.745	2002.166
13	1668.576	1894.791	2042.534	2028.229	2036.397	2052.790	2007.836
14	1668.996	1897.826	2030.376	2024.765	2027.751	2055.239	2012.305
15	1655.637	1910.589	2013.973	2025.068	2022.560	2056.966	2013.319
16	1614.976	1913.029	1993.521	2033.177	2018.686	2056.605	2013.378
17	1580.746	1900.812	1980.289	2043.247	2010.939	2051.180	2024.414
18	1561.367	1877.910	1986.193	2048.077	2007.660	2044.798	2041.998
19	1557.015	1845.358	1999.483	2046.467	2017.379	2040.866	2054.995
20	1555.590	1822.701	2015.769	2040.690	2028.044	2040.866	2062.089
21	1551.472	1816.378	2042.417	2045.335	2037.109	2049.745	2072.344
22	1545.393	1816.504	2059.054	2053.980	2047.189	2059.708	2076.638
23	1534.182	1823.950	2066.207	2065.133	2049.453	2063.348	2077.653
24	1521.779	1826.038	2055.298	2077.233	2043.969	2060.781	2064.958
25	1506.333	1825.501	2046.828	2080.873	2023.633	2047.843	2031.859
26	1487.969	1820.856	2040.446	2096.973	2010.578	2025.546	2000.556
27	1467.341	1819.129	2040.690	2106.331	1999.727	1992.809	1965.799
28	1450.235	1821.510	2041.705	2107.707	1999.307	1958.881	1933.247
29	1434.730	1821.208	2044.740	2097.871	2008.255	1924.240	1899.739
30	1427.334	1824.018	2043.852	2089.040	2013.085	1879.111	1872.963
31	1423.284	1841.660	2043.491	2090.836	2004.196	1839.094	1847.739
32	1424.357	1860.385	2043.130	2122.968	1988.222	1797.662	1822.466
33	1427.695	1877.432	2035.977	2159.277	1970.863	1762.300	1795.330
34	1427.695	1896.040	2026.561	2172.518	1955.543	1728.196	1774.409
35	1426.202	1907.847	2014.929	2168.820	1940.877	1701.665	1751.927
36	1419.820	1911.067	2002.108	2131.379	1933.130	1683.476	1722.888

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CANDELA TABULATION - (Cont.)

37	1412.843	1915.419	1995.014	2095.422	1926.094	1660.643	1688.433
38	1397.162	1914.639	1990.779	2070.617	1914.766	1640.015	1646.152
39	1370.455	1907.789	1986.729	2057.620	1901.231	1608.770	1584.210
40	1342.607	1893.533	1982.973	2050.946	1882.262	1566.734	1518.081
41	1324.067	1879.764	1982.856	2039.851	1860.678	1518.140	1462.032
42	1306.122	1868.914	1983.207	2032.396	1839.630	1461.681	1405.271
43	1290.500	1856.990	1976.113	2029.595	1822.047	1409.086	1355.194
44	1280.898	1842.080	1965.379	2029.898	1804.512	1354.052	1313.392
45	1272.672	1828.663	1954.714	2029.595	1777.688	1309.879	1281.972
46	1261.461	1813.880	1942.907	2041.285	1721.941	1273.209	1258.953
47	1241.964	1799.272	1931.871	2052.370	1669.171	1239.398	1257.284
48	1214.418	1787.046	1921.918	2065.553	1616.342	1220.019	1281.669
49	1180.198	1773.394	1918.874	2080.697	1566.138	1208.876	1373.256
50	1145.011	1749.185	1918.815	2094.592	1522.492	1223.425	1507.172
51	1103.989	1714.486	1920.191	2111.581	1489.637	1349.525	1483.324
52	1056.537	1679.007	1922.211	2124.217	1486.183	1453.387	1288.646
53	1001.444	1637.449	1911.545	2135.429	1487.432	1367.352	1102.623
54	941.639	1586.952	1880.418	2136.326	1466.989	1184.842	885.951
55	883.980	1529.293	1839.757	2115.698	1433.481	1039.305	718.819
56	832.049	1464.003	1784.606	2070.861	1441.346	891.493	619.426
57	788.997	1397.641	1718.653	2007.718	1485.588	792.461	553.131
58	752.991	1339.328	1623.378	1939.326	1455.778	720.907	511.446
59	719.180	1281.015	1519.516	1857.048	1355.848	671.298	476.454
60	677.865	1220.497	1436.633	1743.760	1260.982	635.233	450.157
61	622.470	1146.270	1406.588	1591.245	1170.479	606.077	429.588
62	551.580	1058.801	1425.128	1486.066	1121.046	578.053	410.443
63	475.079	975.859	1468.238	1449.933	1098.212	555.278	395.660
64	410.570	905.388	1478.913	1431.988	1076.267	536.016	375.393
65	369.421	836.996	1426.855	1442.839	1042.583	518.247	356.365
66	348.676	765.510	1328.302	1447.786	1006.684	500.303	333.171
67	329.414	693.839	1177.329	1391.679	959.290	482.953	329.063
68	302.648	619.611	998.341	1282.811	894.177	461.310	317.490
69	269.794	547.101	933.891	1155.803	820.661	443.414	312.191
70	240.335	485.754	955.592	967.809	730.928	426.787	300.384
71	217.980	444.556	977.655	752.035	641.849	412.053	288.870
72	202.358	393.396	915.166	656.281	566.129	399.114	281.835
73	194.961	329.834	804.268	630.042	510.080	387.190	267.950
74	184.589	280.888	707.676	635.946	493.745	363.644	258.884
75	171.172	254.474	653.237	615.015	478.299	340.743	252.620
76	153.588	231.875	635.233	541.676	454.392	308.074	252.922
77	134.570	198.064	471.800	430.895	417.127	285.533	249.585
78	120.558	166.527	354.638	363.049	362.454	268.545	192.161
79	114.830	145.304	322.379	360.902	308.132	243.682	135.877
80	112.146	133.194	266.213	319.461	260.914	216.545	100.047
81	108.926	118.948	229.426	244.755	237.300	166.049	95.509
82	96.768	97.656	194.249	230.499	229.074	123.417	100.935
83	68.685	72.442	151.734	206.651	213.569	101.003	58.371
84	44.954	48.291	114.352	129.857	181.134	88.894	29.683
85	26.288	34.816	81.439	95.870	146.728	65.524	23.721
86	21.516	29.273	65.816	88.533	125.388	35.470	16.510
87	20.443	27.478	54.019	74.462	103.325	23.848	10.431
88	17.701	25.039	40.954	53.356	80.902	19.194	6.255
89	10.782	16.754	27.185	39.344	56.937	11.085	2.439
90	5.123	10.724	20.208	29.215	32.903	5.181	0.000
91	0.000	3.337	11.563	17.642	14.842	0.293	0.000
92	0.000	0.654	5.601	6.430	5.006	0.000	0.000

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CANDELA TABULATION - (Cont.)

93	0.000	0.293	1.005	1.064	0.117	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.293	0.000	0.000	0.000	0.000	0.000
96	0.000	0.654	0.000	0.000	0.000	0.000	0.000
97	0.000	0.654	0.000	0.000	0.000	0.000	0.000
98	0.293	0.654	0.000	0.000	0.000	0.000	0.000
99	0.000	0.947	0.000	0.000	0.000	0.000	0.000
100	0.000	0.654	0.000	0.000	0.000	0.000	0.000
101	0.000	0.654	0.000	0.000	0.000	0.000	0.000
102	0.293	0.654	0.000	0.000	0.000	0.000	0.000
103	0.947	0.654	0.000	0.000	0.000	0.000	0.000
104	0.654	0.654	0.000	0.000	0.000	0.000	0.000
105	0.947	0.654	0.000	0.000	0.000	0.000	0.000
106	0.947	0.654	0.000	0.000	0.000	0.000	0.000
107	0.947	0.654	0.000	0.000	0.000	0.000	0.000
108	0.947	0.654	0.000	0.000	0.000	0.000	0.000
109	0.947	0.654	0.000	0.000	0.000	0.000	0.000
110	0.947	0.654	0.000	0.000	0.000	0.000	0.000
111	0.947	0.654	0.000	0.000	0.000	0.000	0.000
112	0.947	0.654	0.000	0.000	0.000	0.000	0.000
113	0.947	0.654	0.000	0.000	0.000	0.000	0.000
114	0.947	0.654	0.000	0.000	0.000	0.000	0.000
115	0.947	0.654	0.000	0.000	0.000	0.000	0.000
116	0.947	0.654	0.000	0.000	0.000	0.000	0.000
117	0.947	0.654	0.000	0.000	0.000	0.000	0.000
118	0.947	0.654	0.000	0.000	0.000	0.000	0.000
119	0.947	0.654	0.000	0.000	0.000	0.000	0.000
120	0.947	0.654	0.000	0.000	0.000	0.000	0.000
121	0.947	0.654	0.000	0.000	0.000	0.000	0.000
122	0.947	0.654	0.000	0.000	0.000	0.000	0.000
123	0.947	0.654	0.000	0.000	0.000	0.000	0.000
124	0.947	0.654	0.000	0.000	0.000	0.000	0.000
125	0.947	0.654	0.000	0.000	0.000	0.000	0.000
126	0.947	0.654	0.000	0.000	0.000	0.000	0.000
127	0.947	0.654	0.000	0.000	0.000	0.000	0.000
128	0.947	0.654	0.000	0.000	0.000	0.000	0.000
129	0.947	0.654	0.000	0.000	0.000	0.000	0.000
130	0.947	0.654	0.000	0.000	0.000	0.000	0.000
131	0.947	0.654	0.000	0.000	0.000	0.000	0.000
132	0.947	0.654	0.000	0.000	0.000	0.000	0.000
133	0.947	0.654	0.000	0.000	0.000	0.000	0.000
134	0.947	0.654	0.000	0.000	0.000	0.000	0.000
135	0.947	0.654	0.000	0.000	0.000	0.000	0.000
136	0.947	0.654	0.000	0.000	0.000	0.000	0.000
137	0.947	0.654	0.000	0.000	0.000	0.000	0.000
138	0.947	0.654	0.000	0.000	0.000	0.000	0.000
139	0.947	0.654	0.000	0.000	0.000	0.000	0.000
140	0.947	0.654	0.000	0.000	0.000	0.000	0.000
141	0.947	0.654	0.000	0.000	0.000	0.000	0.000
142	0.947	0.654	0.000	0.000	0.000	0.000	0.000
143	0.947	0.654	0.000	0.000	0.000	0.000	0.000
144	0.947	0.654	0.000	0.000	0.000	0.000	0.000
145	0.654	0.654	0.000	0.000	0.000	0.000	0.000
146	0.654	0.654	0.000	0.000	0.000	0.000	0.000
147	0.654	0.947	0.000	0.000	0.000	0.000	0.000
148	0.654	0.293	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

149	0.654	0.654	0.000	0.000	0.000	0.000	0.000
150	0.654	0.293	0.000	0.000	0.000	0.000	0.000
151	0.654	0.293	0.000	0.000	0.000	0.000	0.000
152	0.654	0.293	0.000	0.000	0.000	0.000	0.000
153	0.654	0.293	0.654	0.000	0.000	0.000	0.000
154	0.654	0.293	0.293	0.000	0.000	0.000	0.000
155	0.654	0.293	0.293	0.293	0.000	0.000	0.000
156	0.654	0.293	0.947	0.654	0.000	0.000	0.000
157	0.654	0.293	0.654	0.293	0.000	0.000	0.000
158	0.654	0.293	0.654	0.293	0.000	0.000	0.000
159	0.654	0.293	0.654	0.293	0.000	0.000	0.000
160	0.654	0.293	0.654	0.293	0.000	0.000	0.000
161	0.654	0.293	0.654	0.293	0.000	0.000	0.000
162	0.654	0.293	0.654	0.293	0.000	0.000	0.000
163	0.654	0.293	0.654	0.293	0.000	0.000	0.000
164	0.654	0.293	0.654	0.293	0.000	0.000	0.000
165	0.654	0.293	0.654	0.293	0.000	0.000	0.000
166	0.654	0.293	0.654	0.293	0.000	0.000	0.000
167	0.654	0.293	0.654	0.293	0.000	0.000	0.000
168	0.654	0.293	0.654	0.293	0.000	0.000	0.000
169	0.654	0.293	0.654	0.293	0.000	0.000	0.000
170	0.654	0.293	0.654	0.293	0.000	0.000	0.000
171	0.654	0.293	0.654	0.293	0.293	0.000	0.000
172	0.654	0.293	0.654	0.293	0.293	0.000	0.000
173	0.654	0.293	0.654	0.293	0.293	0.000	0.000
174	0.654	0.293	0.654	0.293	0.293	0.000	0.000
175	0.654	0.293	0.654	0.293	0.654	0.000	0.000
176	0.654	0.293	0.654	0.293	0.947	0.000	0.000
177	0.947	0.293	0.654	0.293	0.654	0.000	0.000
178	0.293	0.293	0.654	0.293	0.654	0.000	0.000
179	0.293	0.293	0.654	0.293	0.654	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	720.96	12.10	12.10
0-30	1537.68	25.80	25.80
0-40	2543.21	42.70	42.70
0-60	4721.08	79.20	79.20
0-80	5858.31	98.30	98.30
0-90	5957.31	99.90	99.90
10-90	5768.14	96.70	96.70
20-40	1822.25	30.60	30.60
20-50	2922.83	49.00	49.00
40-70	2932.86	49.20	49.20
60-80	1137.22	19.10	19.10
70-80	382.24	6.40	6.40
80-90	99.00	1.70	1.70
90-110	3.48	0.10	0.10
90-120	3.74	0.10	0.10
90-130	4.02	0.10	0.10
90-150	4.46	0.10	0.10
90-180	4.72	0.10	0.10
110-180	1.24	0.00	0.00
0-180	5962.02	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.17
10-20	531.79
20-30	816.72
30-40	1005.54
40-50	1100.58
50-60	1077.3
60-70	754.98
70-80	382.24
80-90	99.00
90-100	3.24
100-110	0.24
110-120	0.26
120-130	0.28
130-140	0.25
140-150	0.19
150-160	0.14
160-170	0.09
170-180	0.03

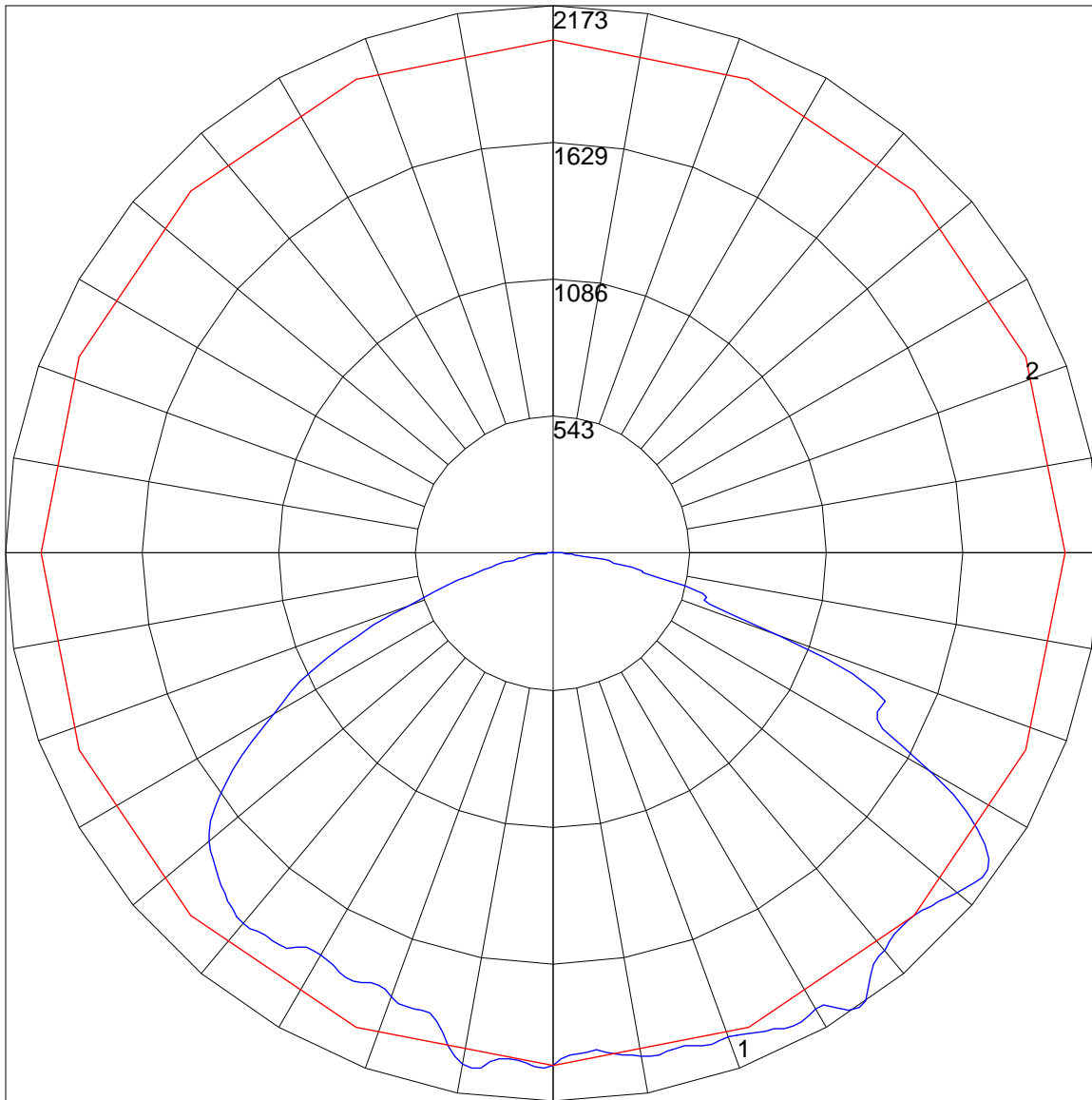
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 2172.518 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)