



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZX-EX-A2-40W-5000K-D120.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] HZX-EX-A2-40W-5000K-D120
 [TESTLAB] EVERFINE
 [TESTDATE] 08 March 2025
 [ISSUEDATE] 2025-03-08 15:01:44
 [NEARFIELD]
 [LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-3000H_V1 SYSTEM
 [MANUFAC] BELUCE CANADA INC.
 [LUMINAIRE] HZX-EX-A2-40W-5000K-D120
 [LUMCAT] HZX-EX-A2-40W-5000K-D120
 [LAMP] 5582 LUMENS
 [_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	5582 (1 lamp)
Total Lamp Lumens	5582
Luminaire Lumens	5582
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	39.7603
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26257	27589	25927
55	26449	26168	24348
65	23901	24224	20999
75	17996	18560	13208
85	8311	7785	4090

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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	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500
1	2042.500	2042.700	2042.500	2042.500	2041.800	2041.600	2041.000	2040.500	2040.200	2039.800
2	2042.600	2043.100	2042.800	2042.900	2041.900	2041.400	2040.500	2039.800	2038.900	2037.900
3	2041.800	2042.700	2042.800	2043.200	2041.900	2040.800	2039.600	2038.700	2037.200	2035.300
4	2040.300	2041.700	2042.500	2043.400	2041.800	2039.900	2038.500	2036.800	2034.800	2032.200
5	2038.500	2040.500	2041.800	2043.300	2040.800	2038.100	2036.400	2034.200	2031.400	2028.200
6	2036.800	2039.300	2040.800	2043.000	2038.800	2035.700	2033.800	2030.700	2027.500	2023.700
7	2035.100	2038.100	2039.500	2041.900	2035.200	2032.600	2030.100	2026.700	2022.700	2018.700
8	2032.600	2036.200	2037.800	2039.700	2030.700	2028.600	2026.100	2021.600	2017.400	2012.900
9	2029.300	2033.700	2035.300	2036.300	2025.700	2024.100	2021.400	2016.200	2011.300	2006.400
10	2025.100	2030.200	2031.900	2032.200	2020.900	2019.000	2016.200	2010.100	2004.700	1999.600
11	2020.000	2025.800	2027.900	2027.100	2015.800	2013.600	2010.200	2003.300	1997.500	1991.800
12	2014.200	2020.500	2023.100	2022.100	2010.600	2007.500	2003.900	1996.400	1989.700	1983.300
13	2007.800	2014.800	2017.700	2016.700	2005.200	2000.800	1996.700	1988.600	1981.200	1974.200
14	2000.900	2008.300	2011.700	2011.000	1998.500	1993.400	1989.000	1980.300	1972.300	1964.500
15	1993.400	2001.300	2004.900	2004.800	1991.000	1985.900	1980.500	1971.600	1962.800	1954.300
16	1985.200	1993.900	1998.000	1998.600	1982.600	1977.600	1971.300	1962.400	1953.200	1943.700
17	1976.100	1985.700	1990.200	1991.400	1973.300	1968.600	1961.500	1952.600	1943.000	1932.700
18	1966.900	1976.900	1981.500	1983.500	1963.400	1959.100	1951.600	1942.200	1932.200	1921.400
19	1957.200	1967.600	1972.400	1975.100	1953.400	1949.000	1940.900	1931.100	1920.900	1909.500
20	1946.800	1957.900	1962.800	1965.900	1943.200	1938.000	1929.600	1919.500	1909.200	1897.100
21	1936.000	1947.400	1952.600	1956.300	1932.500	1926.500	1918.100	1907.300	1896.500	1883.900
22	1924.800	1936.600	1941.800	1945.800	1920.900	1914.400	1905.800	1894.300	1883.300	1870.100
23	1913.500	1925.200	1930.300	1934.900	1909.000	1902.000	1893.100	1880.800	1869.800	1855.600
24	1901.300	1913.400	1918.400	1923.300	1896.000	1888.600	1879.300	1867.100	1855.300	1840.700
25	1888.500	1900.900	1905.500	1911.200	1882.300	1874.600	1865.300	1852.300	1840.300	1824.800
26	1875.200	1887.800	1892.400	1898.200	1868.000	1860.200	1850.400	1837.400	1824.700	1808.000
27	1861.400	1874.400	1878.900	1884.600	1853.600	1845.200	1835.400	1821.700	1808.100	1790.400
28	1846.900	1860.200	1864.500	1870.600	1838.600	1829.600	1819.800	1805.200	1788.500	1771.800
29	1832.100	1845.600	1849.800	1856.000	1823.400	1813.400	1803.400	1788.100	1763.900	1753.100
30	1816.400	1830.700	1834.900	1840.800	1807.300	1796.800	1786.800	1768.600	1734.700	1730.500
31	1799.800	1814.800	1819.200	1825.400	1791.000	1779.400	1768.900	1743.700	1692.300	1703.300
32	1780.900	1798.100	1802.800	1809.000	1771.600	1761.600	1750.600	1715.400	1647.700	1671.800
33	1754.200	1781.200	1786.100	1792.200	1744.900	1743.700	1731.500	1676.900	1615.200	1629.200
34	1721.800	1762.900	1768.500	1774.700	1711.100	1721.900	1711.800	1631.400	1586.400	1585.600
35	1676.300	1740.100	1750.200	1756.600	1677.500	1693.900	1691.600	1596.000	1562.700	1553.300
36	1634.600	1711.200	1730.900	1735.400	1647.000	1659.600	1670.800	1565.600	1542.500	1523.600
37	1604.300	1674.000	1710.400	1707.600	1620.000	1625.000	1648.800	1538.500	1521.700	1498.900
38	1577.200	1627.800	1688.900	1673.700	1598.900	1592.800	1623.600	1516.900	1501.100	1477.000
39	1553.100	1590.100	1667.700	1640.400	1580.100	1564.400	1594.700	1495.000	1479.500	1454.500
40	1532.900	1560.200	1646.300	1608.400	1559.600	1541.200	1563.200	1472.900	1456.900	1431.600
41	1512.300	1532.400	1624.300	1580.300	1538.900	1520.100	1523.800	1450.400	1433.300	1408.200
42	1492.000	1508.200	1601.600	1556.200	1517.400	1498.400	1475.300	1427.000	1409.900	1382.900
43	1471.000	1486.400	1575.100	1535.100	1489.200	1474.900	1428.200	1402.500	1385.300	1354.100
44	1449.200	1464.600	1540.400	1513.100	1449.800	1450.500	1383.600	1377.900	1359.700	1323.800
45	1426.500	1442.700	1498.900	1491.100	1408.600	1421.100	1340.900	1352.500	1334.300	1290.600
46	1402.900	1420.500	1444.700	1467.200	1372.100	1382.300	1305.800	1326.500	1308.000	1254.700
47	1379.200	1396.800	1391.900	1440.200	1340.800	1341.400	1275.100	1299.500	1280.800	1219.800
48	1354.500	1372.100	1348.400	1404.200	1316.700	1304.300	1248.900	1272.000	1252.800	1182.800
49	1329.700	1347.500	1312.400	1364.000	1292.500	1272.400	1223.700	1244.100	1224.200	1148.100
50	1304.000	1322.600	1280.300	1324.600	1267.100	1244.900	1198.100	1214.700	1194.100	1114.800
51	1277.600	1296.600	1255.100	1290.500	1234.100	1217.400	1171.600	1185.000	1164.200	1082.000
52	1250.600	1269.600	1230.400	1263.400	1186.000	1189.500	1144.100	1154.400	1132.900	1051.100
53	1223.300	1242.800	1205.300	1236.800	1139.400	1154.700	1110.700	1123.000	1100.600	1020.200

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54	1195.300	1214.800	1180.500	1209.100	1101.400	1105.600	1069.300	1090.700	1068.100	988.310
55	1165.600	1185.200	1153.200	1179.900	1073.000	1057.400	1025.800	1057.400	1034.100	955.090
56	1134.900	1156.400	1117.900	1136.900	1044.700	1018.900	988.760	1023.600	999.330	921.120
57	1103.400	1126.700	1076.500	1088.400	1012.700	986.080	956.940	990.040	963.850	886.230
58	1071.200	1096.100	1035.800	1046.200	961.860	951.950	927.650	954.780	914.860	849.060
59	1038.500	1064.000	1000.100	1012.700	913.070	908.630	897.190	918.200	849.820	804.840
60	1005.600	1029.600	969.760	982.030	879.110	847.390	862.010	874.650	804.350	740.550
61	970.610	995.550	941.390	950.410	848.510	793.600	813.710	804.480	767.890	681.560
62	931.950	960.160	912.010	903.050	810.410	757.200	766.330	742.620	730.480	641.660
63	865.280	920.880	877.920	849.040	755.530	720.600	728.420	698.670	692.270	606.510
64	814.960	878.150	832.610	806.290	713.800	671.200	694.020	659.510	654.750	570.340
65	776.080	829.070	786.560	764.570	681.860	624.560	657.660	622.280	601.510	535.500
66	740.090	760.210	748.240	719.100	633.510	593.560	606.790	584.970	543.980	492.400
67	703.040	711.650	714.700	662.940	586.100	551.780	559.950	543.780	508.000	433.470
68	666.140	675.330	679.600	618.940	551.950	503.440	511.330	482.020	471.910	394.460
69	629.390	640.370	633.660	586.790	498.810	471.130	465.180	438.640	425.810	359.470
70	569.180	603.200	586.010	542.320	460.030	421.220	419.100	398.030	379.710	320.390
71	521.270	566.760	549.050	499.310	421.250	388.510	382.900	359.590	343.530	279.800
72	484.380	523.000	506.670	461.240	384.980	343.060	340.060	312.340	301.890	243.120
73	450.790	473.700	444.810	423.260	338.560	308.730	298.790	276.660	258.440	212.070
74	404.340	424.450	404.030	390.040	297.580	270.630	250.040	232.530	225.710	181.090
75	357.870	390.280	369.080	345.360	262.660	236.180	219.800	205.260	186.360	145.090
76	323.660	352.550	324.290	308.720	225.240	201.770	184.370	170.840	150.180	120.890
77	282.790	302.480	291.650	272.180	190.010	169.220	147.490	139.700	123.770	92.779
78	244.080	265.200	242.730	233.250	155.590	137.800	120.090	109.410	98.663	70.645
79	212.250	227.340	212.910	198.050	122.840	108.250	92.980	84.316	74.207	52.188
80	180.430	193.880	183.360	166.000	96.650	81.696	69.237	65.345	54.233	36.748
81	148.810	159.310	147.380	135.510	71.235	59.420	50.198	45.053	35.386	23.935
82	123.730	131.720	119.880	107.190	51.892	42.850	34.781	30.343	21.466	15.744
83	97.354	102.760	93.389	80.152	44.928	35.931	24.216	19.637	15.772	11.774
84	75.334	78.908	71.392	58.307	36.194	28.115	18.944	13.990	11.835	8.710
85	55.653	61.428	52.132	42.235	27.386	20.906	14.103	10.430	8.414	6.188
86	37.845	43.742	36.797	35.687	19.986	15.123	10.151	7.457	5.949	3.766
87	24.997	29.858	25.872	28.045	14.392	10.913	7.218	4.953	3.196	3.170
88	17.662	19.670	20.246	20.893	10.214	7.223	4.292	3.089	3.213	3.259
89	13.310	14.098	15.188	15.106	5.942	3.211	2.957	3.110	3.356	3.408
90	9.382	10.388	11.019	10.822	2.830	2.895	3.025	3.244	3.498	3.559
91	6.573	7.372	7.802	7.227	2.853	2.916	3.161	3.382	3.652	3.711
92	3.295	4.612	4.701	2.953	2.952	3.051	3.311	3.538	3.824	3.877
93	2.849	2.662	2.554	2.416	3.086	3.179	3.462	3.699	3.982	4.051
94	2.924	2.754	2.520	2.470	3.223	3.344	3.605	3.848	4.149	4.216
95	3.080	2.897	2.655	2.599	3.372	3.487	3.766	4.014	4.323	4.393
96	3.233	3.047	2.799	2.750	3.531	3.631	3.938	4.173	4.489	4.580
97	3.405	3.193	2.957	2.893	3.688	3.797	4.097	4.354	4.671	4.755
98	3.586	3.358	3.115	3.039	3.840	3.961	4.261	4.537	4.853	4.944
99	3.739	3.526	3.276	3.205	4.012	4.127	4.443	4.710	5.040	5.149
100	3.904	3.698	3.450	3.372	4.179	4.300	4.625	4.900	5.229	5.346
101	4.094	3.880	3.607	3.538	4.358	4.481	4.805	5.096	5.418	5.548
102	4.282	4.056	3.790	3.721	4.531	4.671	5.002	5.284	5.623	5.751
103	4.464	4.243	3.964	3.893	4.719	4.843	5.181	5.480	5.826	5.958
104	4.652	4.424	4.159	4.076	4.899	5.031	5.379	5.667	6.029	6.176
105	4.841	4.614	4.341	4.265	5.088	5.227	5.581	5.880	6.241	6.373
106	5.038	4.812	4.524	4.448	5.278	5.416	5.770	6.076	6.431	6.583
107	5.248	5.014	4.727	4.637	5.479	5.620	5.974	6.287	6.651	6.803
108	5.439	5.206	4.934	4.826	5.671	5.816	6.180	6.484	6.876	7.024
109	5.648	5.415	5.121	5.022	5.872	6.004	6.374	6.701	7.095	7.241

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110	5.868	5.619	5.318	5.221	6.076	6.205	6.585	6.922	7.301	7.453
111	6.072	5.818	5.529	5.415	6.269	6.410	6.795	7.141	7.520	7.674
112	6.277	6.020	5.728	5.621	6.476	6.627	7.000	7.349	7.732	7.899
113	6.489	6.232	5.930	5.824	6.693	6.841	7.212	7.556	7.949	8.104
114	6.714	6.429	6.143	6.030	6.888	7.042	7.422	7.765	8.170	8.324
115	6.919	6.640	6.338	6.242	7.104	7.260	7.626	7.985	8.396	8.541
116	7.131	6.852	6.552	6.439	7.324	7.466	7.845	8.198	8.601	8.756
117	7.343	7.065	6.748	6.652	7.535	7.683	8.062	8.409	8.805	8.965
118	7.567	7.262	6.961	6.857	7.762	7.896	8.268	8.626	9.024	9.178
119	7.781	7.479	7.171	7.073	7.964	8.105	8.485	8.823	9.233	9.383
120	7.982	7.686	7.384	7.265	8.184	8.309	8.691	9.034	9.438	9.594
121	8.189	7.895	7.590	7.490	8.403	8.526	8.894	9.237	9.641	9.797
122	8.407	8.100	7.794	7.689	8.612	8.738	9.102	9.442	9.847	9.994
123	8.605	8.306	8.006	7.899	8.822	8.934	9.308	9.639	10.058	10.184
124	8.822	8.515	8.208	8.098	9.023	9.139	9.510	9.841	10.231	10.380
125	9.020	8.713	8.422	8.309	9.221	9.355	9.715	10.039	10.435	10.577
126	9.215	8.923	8.626	8.513	9.438	9.558	9.919	10.228	10.640	10.788
127	9.426	9.123	8.821	8.709	9.642	9.755	10.129	10.417	10.835	10.994
128	9.631	9.333	9.034	8.916	9.851	9.967	10.309	10.621	11.034	11.190
129	9.819	9.530	9.231	9.119	10.065	10.146	10.516	10.816	11.243	11.385
130	10.025	9.727	9.426	9.324	10.246	10.351	10.705	11.004	11.425	11.567
131	10.198	9.929	9.623	9.523	10.454	10.567	10.905	11.188	11.607	11.750
132	10.387	10.135	9.822	9.717	10.657	10.751	11.102	11.377	11.818	11.969
133	10.592	10.314	10.027	9.923	10.860	10.954	11.314	11.601	12.013	12.171
134	10.789	10.504	10.206	10.126	11.059	11.158	11.511	11.782	12.196	12.339
135	10.991	10.694	10.411	10.309	11.254	11.359	11.706	11.979	12.392	12.544
136	11.180	10.897	10.606	10.520	11.462	11.557	11.903	12.169	12.572	12.738
137	11.391	11.108	10.820	10.716	11.674	11.767	12.097	12.364	12.771	12.921
138	11.579	11.306	11.022	10.923	11.893	11.962	12.278	12.554	12.958	13.103
139	11.783	11.512	11.220	11.140	12.096	12.159	12.474	12.736	13.134	13.284
140	11.990	11.716	11.426	11.337	12.284	12.348	12.679	12.916	13.315	13.451
141	12.185	11.912	11.623	11.558	12.478	12.544	12.852	13.089	13.479	13.610
142	12.375	12.115	11.828	11.755	12.660	12.724	13.011	13.249	13.639	13.767
143	12.569	12.297	12.032	11.967	12.854	12.906	13.183	13.421	13.789	13.921
144	12.767	12.501	12.236	12.171	13.013	13.070	13.349	13.574	13.940	14.049
145	12.956	12.690	12.425	12.383	13.180	13.244	13.508	13.708	14.053	14.185
146	13.143	12.879	12.615	12.572	13.344	13.396	13.650	13.852	14.197	14.313
147	13.327	13.068	12.816	12.776	13.495	13.552	13.786	13.974	14.325	14.442
148	13.507	13.250	13.000	12.966	13.652	13.710	13.936	14.117	14.453	14.569
149	13.674	13.424	13.180	13.155	13.818	13.854	14.058	14.237	14.574	14.690
150	13.846	13.604	13.361	13.339	13.961	13.983	14.194	14.359	14.695	14.797
151	13.998	13.777	13.537	13.527	14.090	14.132	14.329	14.472	14.801	14.910
152	14.157	13.938	13.717	13.716	14.210	14.239	14.427	14.563	14.884	14.994
153	14.330	14.103	13.886	13.898	14.352	14.389	14.549	14.682	14.983	15.092
154	14.468	14.254	14.021	14.064	14.489	14.517	14.668	14.789	15.088	15.206
155	14.611	14.413	14.202	14.225	14.623	14.653	14.796	14.924	15.195	15.304
156	14.747	14.565	14.363	14.396	14.744	14.781	14.911	15.023	15.292	15.394
157	14.889	14.716	14.527	14.542	14.856	14.894	15.030	15.122	15.376	15.471
158	15.027	14.867	14.672	14.699	14.977	15.000	15.143	15.218	15.458	15.561
159	15.161	15.003	14.830	14.852	15.083	15.120	15.241	15.333	15.549	15.652
160	15.276	15.154	14.981	15.002	15.204	15.226	15.347	15.415	15.624	15.728
161	15.410	15.282	15.117	15.147	15.315	15.339	15.444	15.507	15.708	15.811
162	15.532	15.419	15.261	15.291	15.399	15.436	15.536	15.581	15.783	15.864
163	15.660	15.540	15.398	15.442	15.511	15.520	15.641	15.672	15.875	15.947
164	15.766	15.662	15.527	15.571	15.602	15.633	15.739	15.755	15.950	16.023
165	15.887	15.790	15.649	15.700	15.714	15.746	15.838	15.839	16.041	16.098

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CANDELA TABULATION - (Cont.)

166	15.986	15.910	15.791	15.835	15.850	15.896	15.988	15.974	16.163	16.226
167	16.100	16.024	15.905	15.957	16.008	16.040	16.139	16.118	16.275	16.354
168	16.183	16.114	16.035	16.078	16.145	16.182	16.268	16.231	16.387	16.461
169	16.287	16.235	16.147	16.199	16.280	16.295	16.379	16.343	16.485	16.551
170	16.386	16.334	16.262	16.313	16.414	16.424	16.485	16.472	16.592	16.657
171	16.454	16.432	16.359	16.419	16.549	16.560	16.629	16.585	16.712	16.771
172	16.530	16.523	16.458	16.510	16.655	16.657	16.727	16.699	16.795	16.847
173	16.613	16.606	16.556	16.600	16.730	16.741	16.817	16.782	16.863	16.907
174	16.689	16.682	16.617	16.676	16.828	16.824	16.900	16.842	16.931	16.946
175	16.734	16.749	16.686	16.744	16.911	16.892	16.975	16.895	16.962	16.968
176	16.787	16.810	16.754	16.812	16.978	16.959	17.020	16.963	16.977	16.998
177	16.818	16.855	16.807	16.858	17.031	16.997	17.043	16.979	16.977	17.006
178	16.863	16.893	16.875	16.910	17.046	17.005	17.043	17.001	16.976	17.006
179	16.908	16.930	16.936	16.956	17.061	17.012	17.043	17.009	16.961	16.999
180	16.907	16.907	16.907	16.907	16.907	16.907	16.907	16.907	16.907	16.907

**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	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500	2041.500
1	2039.700	2039.800	2041.200	2041.600	2041.800	2042.200	2042.500
2	2037.100	2036.900	2040.700	2041.500	2041.900	2042.500	2042.600
3	2033.800	2032.900	2039.300	2040.600	2040.800	2041.600	2041.800
4	2030.100	2028.400	2036.400	2038.000	2038.400	2039.900	2040.300
5	2026.100	2023.400	2031.800	2034.000	2035.400	2037.500	2038.500
6	2021.300	2018.300	2026.800	2029.200	2031.600	2034.900	2036.800
7	2016.000	2012.500	2021.500	2024.200	2027.400	2032.100	2035.100
8	2010.100	2006.400	2016.000	2018.700	2022.900	2028.800	2032.600
9	2003.400	2000.000	2010.400	2013.300	2018.300	2024.800	2029.300
10	1996.100	1992.700	2004.700	2007.400	2013.200	2020.200	2025.100
11	1988.000	1984.500	1998.500	2001.100	2007.800	2014.700	2020.000
12	1979.200	1976.000	1991.200	1994.400	2001.400	2008.600	2014.200
13	1970.000	1966.600	1983.100	1987.400	1994.400	2002.100	2007.800
14	1960.500	1957.000	1973.900	1979.100	1986.300	1995.000	2000.900
15	1950.000	1946.600	1963.800	1970.200	1977.900	1986.900	1993.400
16	1939.000	1935.500	1953.500	1960.700	1968.500	1978.300	1985.200
17	1927.400	1923.800	1943.400	1950.600	1958.700	1968.900	1976.100
18	1915.300	1911.700	1932.700	1940.300	1948.400	1958.900	1966.900
19	1902.500	1899.000	1921.500	1929.300	1937.300	1948.600	1957.200
20	1889.100	1885.100	1909.500	1917.500	1925.800	1937.400	1946.800
21	1875.200	1864.500	1893.800	1905.400	1913.400	1925.900	1936.000
22	1860.800	1839.300	1870.800	1892.300	1900.900	1914.600	1924.800
23	1845.600	1807.000	1840.500	1874.300	1887.500	1902.300	1913.500
24	1829.200	1776.200	1808.800	1850.600	1873.600	1889.600	1901.300
25	1812.200	1743.300	1775.500	1820.000	1859.100	1875.900	1888.500
26	1794.100	1717.000	1748.900	1789.400	1843.900	1862.100	1875.200
27	1770.800	1692.900	1724.500	1757.000	1827.500	1847.500	1861.400
28	1744.800	1674.500	1706.100	1729.700	1810.200	1832.600	1846.900
29	1713.000	1656.300	1689.200	1704.900	1789.800	1816.600	1832.100
30	1682.400	1637.600	1672.400	1684.300	1766.000	1799.700	1816.400
31	1649.500	1618.000	1654.600	1666.800	1739.000	1781.600	1799.800
32	1619.500	1597.200	1636.000	1648.600	1708.100	1762.900	1780.900
33	1591.100	1575.200	1615.500	1630.000	1678.200	1743.700	1754.200
34	1564.000	1545.200	1585.900	1610.500	1646.500	1722.000	1721.800
35	1541.700	1508.300	1549.000	1589.700	1617.800	1693.700	1676.300
36	1519.100	1471.000	1511.900	1564.500	1590.500	1660.000	1634.600

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CANDELA TABULATION - (Cont.)

37	1494.900	1435.200	1476.400	1531.400	1564.300	1615.400	1604.300
38	1466.100	1404.900	1446.700	1492.400	1541.800	1574.500	1577.200
39	1435.300	1378.700	1422.300	1454.700	1519.500	1543.500	1553.100
40	1399.200	1355.400	1400.900	1422.100	1496.700	1515.300	1532.900
41	1352.400	1331.800	1379.500	1393.000	1472.300	1490.000	1512.300
42	1305.000	1307.300	1357.000	1369.500	1442.500	1468.300	1492.000
43	1258.900	1281.100	1331.800	1346.700	1409.200	1445.900	1471.000
44	1214.800	1246.100	1294.500	1323.600	1366.000	1423.800	1449.200
45	1179.100	1204.100	1251.700	1298.700	1314.900	1401.000	1426.500
46	1148.100	1164.200	1212.100	1269.600	1268.300	1377.100	1402.900
47	1122.700	1129.800	1180.200	1231.400	1225.900	1351.200	1379.200
48	1097.900	1102.300	1156.300	1189.200	1184.800	1322.600	1354.500
49	1072.200	1076.300	1131.700	1151.300	1152.500	1292.700	1329.700
50	1044.800	1048.800	1104.800	1120.000	1124.400	1260.600	1304.000
51	1014.300	1016.600	1073.200	1094.400	1099.900	1225.400	1277.600
52	974.790	970.590	1028.500	1067.000	1076.000	1191.600	1250.600
53	931.890	926.850	985.920	1038.800	1050.200	1155.900	1223.300
54	894.390	892.660	953.040	1005.100	1022.100	1121.100	1195.300
55	863.270	862.620	927.110	960.320	989.350	1088.600	1165.600
56	834.820	828.220	895.860	917.880	948.590	1056.000	1134.900
57	805.280	781.960	856.840	884.280	907.220	1023.500	1103.400
58	772.670	729.320	809.900	854.890	872.200	992.820	1071.200
59	726.990	684.930	774.440	820.570	842.650	960.790	1038.500
60	683.770	648.840	742.420	773.600	814.150	927.630	1005.600
61	648.880	607.820	709.300	722.170	784.860	893.720	970.610
62	617.870	559.030	658.080	676.770	751.780	858.790	931.950
63	580.330	526.470	618.820	639.920	707.550	823.240	865.280
64	532.600	490.620	586.610	601.460	666.060	770.470	814.960
65	493.820	444.440	538.740	553.160	631.830	706.980	776.080
66	449.460	415.250	500.210	519.640	598.930	658.190	740.090
67	405.140	368.370	463.910	486.730	563.090	617.500	703.040
68	366.160	339.710	418.180	451.340	517.780	581.030	666.140
69	333.400	296.830	383.580	415.850	476.420	545.640	629.390
70	290.490	260.880	341.930	371.810	429.270	511.710	569.180
71	251.890	231.190	302.370	340.560	386.000	466.680	521.270
72	214.130	201.550	271.110	298.610	346.640	421.660	484.380
73	180.040	169.210	232.640	266.270	315.130	381.270	450.790
74	147.530	139.120	202.640	232.150	274.790	344.770	404.340
75	118.990	108.980	169.380	197.440	237.130	299.460	357.870
76	94.410	82.870	138.700	165.350	205.760	267.550	323.660
77	72.274	60.137	109.720	135.670	175.480	233.520	282.790
78	51.713	43.153	82.582	108.280	144.870	193.130	244.080
79	35.928	36.972	59.562	79.867	118.100	167.550	212.250
80	24.789	30.220	47.527	59.450	92.657	133.690	180.430
81	19.794	22.984	41.365	42.593	70.237	108.810	148.810
82	14.988	16.803	33.825	35.611	51.439	84.971	123.730
83	10.906	11.988	25.765	29.520	36.143	65.384	97.354
84	7.822	8.524	18.735	22.801	24.894	47.779	75.334
85	5.150	4.791	13.230	16.772	19.425	33.690	55.653
86	3.073	3.027	9.143	11.999	15.128	22.508	37.845
87	3.127	2.999	5.359	8.402	11.266	15.364	24.997
88	3.263	3.126	2.680	5.010	8.094	11.446	17.662
89	3.422	3.277	2.642	2.697	5.475	8.405	13.310
90	3.574	3.436	2.716	2.721	2.955	5.822	9.382
91	3.740	3.595	2.859	2.857	2.792	3.359	6.573
92	3.915	3.771	3.017	3.006	2.895	2.862	3.295

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CANDELA TABULATION - (Cont.)

93	4.081	3.937	3.176	3.173	3.054	2.998	2.849
94	4.263	4.117	3.338	3.318	3.217	3.135	2.924
95	4.445	4.308	3.514	3.489	3.376	3.308	3.080
96	4.627	4.488	3.693	3.662	3.544	3.466	3.233
97	4.816	4.686	3.867	3.837	3.718	3.634	3.405
98	5.012	4.868	4.054	4.031	3.904	3.806	3.586
99	5.216	5.086	4.249	4.221	4.094	3.973	3.739
100	5.420	5.286	4.439	4.410	4.274	4.161	3.904
101	5.618	5.490	4.649	4.604	4.463	4.352	4.094
102	5.822	5.691	4.839	4.810	4.659	4.545	4.282
103	6.033	5.911	5.042	5.004	4.855	4.735	4.464
104	6.244	6.131	5.245	5.206	5.065	4.939	4.652
105	6.457	6.336	5.453	5.413	5.269	5.136	4.841
106	6.660	6.555	5.664	5.631	5.473	5.332	5.038
107	6.881	6.761	5.883	5.833	5.676	5.543	5.248
108	7.102	6.996	6.100	6.043	5.889	5.754	5.439
109	7.328	7.224	6.306	6.264	6.108	5.958	5.648
110	7.553	7.442	6.524	6.472	6.303	6.176	5.868
111	7.766	7.676	6.743	6.684	6.521	6.382	6.072
112	7.985	7.890	6.973	6.903	6.741	6.593	6.277
113	8.203	8.108	7.177	7.113	6.952	6.810	6.489
114	8.423	8.327	7.410	7.327	7.169	7.025	6.714
115	8.642	8.554	7.629	7.552	7.380	7.241	6.919
116	8.854	8.769	7.840	7.761	7.601	7.444	7.131
117	9.066	8.978	8.052	7.981	7.804	7.663	7.343
118	9.278	9.198	8.276	8.193	8.021	7.867	7.567
119	9.491	9.405	8.495	8.410	8.233	8.086	7.781
120	9.695	9.600	8.705	8.629	8.437	8.293	7.982
121	9.901	9.813	8.916	8.832	8.640	8.494	8.189
122	10.110	10.010	9.120	9.036	8.845	8.708	8.407
123	10.293	10.192	9.330	9.233	9.057	8.910	8.605
124	10.498	10.396	9.533	9.443	9.258	9.108	8.822
125	10.688	10.593	9.743	9.652	9.462	9.318	9.020
126	10.898	10.806	9.941	9.850	9.652	9.514	9.215
127	11.096	10.993	10.112	10.046	9.862	9.712	9.426
128	11.291	11.197	10.323	10.233	10.043	9.920	9.631
129	11.483	11.396	10.527	10.437	10.239	10.111	9.819
130	11.654	11.593	10.723	10.634	10.428	10.277	10.025
131	11.860	11.759	10.918	10.844	10.625	10.481	10.198
132	12.064	11.970	11.130	11.039	10.826	10.678	10.387
133	12.268	12.176	11.325	11.228	11.015	10.875	10.592
134	12.452	12.373	11.528	11.432	11.218	11.076	10.789
135	12.631	12.563	11.732	11.628	11.415	11.274	10.991
136	12.822	12.745	11.920	11.822	11.612	11.471	11.180
137	13.010	12.941	12.129	12.021	11.799	11.675	11.391
138	13.192	13.130	12.319	12.223	12.004	11.870	11.579
139	13.374	13.320	12.513	12.410	12.201	12.080	11.783
140	13.546	13.494	12.709	12.615	12.396	12.271	11.990
141	13.705	13.661	12.905	12.810	12.601	12.474	12.185
142	13.865	13.812	13.102	12.998	12.789	12.677	12.375
143	14.024	13.972	13.297	13.186	12.985	12.875	12.569
144	14.145	14.099	13.486	13.382	13.180	13.071	12.767
145	14.296	14.228	13.672	13.549	13.369	13.260	12.956
146	14.416	14.372	13.852	13.744	13.548	13.440	13.143
147	14.554	14.502	13.996	13.909	13.722	13.614	13.327
148	14.688	14.630	14.176	14.068	13.895	13.803	13.507

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CANDELA TABULATION - (Cont.)

149	14.809	14.757	14.334	14.235	14.061	13.976	13.674
150	14.924	14.878	14.521	14.400	14.229	14.128	13.846
151	15.038	14.978	14.666	14.558	14.380	14.294	13.998
152	15.120	15.076	14.824	14.717	14.552	14.452	14.157
153	15.219	15.182	14.976	14.860	14.697	14.602	14.330
154	15.325	15.297	15.125	15.016	14.854	14.745	14.468
155	15.438	15.410	15.254	15.153	14.992	14.889	14.611
156	15.537	15.516	15.390	15.303	15.134	15.033	14.747
157	15.628	15.600	15.518	15.432	15.270	15.175	14.889
158	15.718	15.705	15.638	15.567	15.413	15.297	15.027
159	15.809	15.789	15.780	15.694	15.532	15.417	15.161
160	15.877	15.864	15.901	15.830	15.654	15.545	15.276
161	15.960	15.955	16.021	15.965	15.775	15.659	15.410
162	16.021	16.016	16.135	16.079	15.881	15.780	15.532
163	16.074	16.084	16.255	16.185	15.986	15.892	15.660
164	16.156	16.153	16.360	16.305	16.084	16.006	15.766
165	16.225	16.228	16.466	16.388	16.190	16.111	15.887
166	16.346	16.326	16.556	16.478	16.281	16.225	15.986
167	16.460	16.441	16.624	16.545	16.372	16.331	16.100
168	16.558	16.539	16.699	16.636	16.469	16.421	16.183
169	16.649	16.613	16.767	16.704	16.545	16.519	16.287
170	16.755	16.698	16.834	16.772	16.627	16.609	16.386
171	16.861	16.796	16.880	16.847	16.695	16.700	16.454
172	16.944	16.865	16.925	16.892	16.778	16.783	16.530
173	16.996	16.925	16.963	16.945	16.854	16.843	16.613
174	17.049	16.971	17.000	17.005	16.914	16.896	16.689
175	17.057	17.008	17.031	17.035	16.960	16.934	16.734
176	17.057	17.016	17.076	17.073	16.990	16.971	16.787
177	17.034	17.024	17.076	17.073	17.005	16.987	16.818
178	17.011	17.024	17.076	17.073	17.013	17.002	16.863
179	16.989	16.994	17.083	17.065	17.020	17.017	16.908
180	16.907	16.907	16.907	16.907	16.907	16.907	16.907

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	752.23	13.50	13.50
0-30	1606.14	28.80	28.80
0-40	2629.43	47.10	47.10
0-60	4595.29	82.30	82.30
0-80	5490.08	98.40	98.40
0-90	5525.8	99.00	99.00
10-90	5332.21	95.50	95.50
20-40	1877.2	33.60	33.60
20-50	2920.32	52.30	52.30
40-70	2599.18	46.60	46.60
60-80	894.79	16.00	16.00
70-80	261.46	4.70	4.70
80-90	35.73	0.60	0.60
90-110	9.94	0.20	0.20
90-120	17.37	0.30	0.30
90-130	25.95	0.50	0.50
90-150	43.27	0.80	0.80
90-180	56.26	1.00	1.00
110-180	46.31	0.80	0.80
0-180	5582.06	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.59
10-20	558.64
20-30	853.91
30-40	1023.29
40-50	1043.12
50-60	922.74
60-70	633.33
70-80	261.46
80-90	35.73
90-100	4.22
100-110	5.72
110-120	7.43
120-130	8.57
130-140	8.93
140-150	8.40
150-160	6.86
160-170	4.52
170-180	1.60

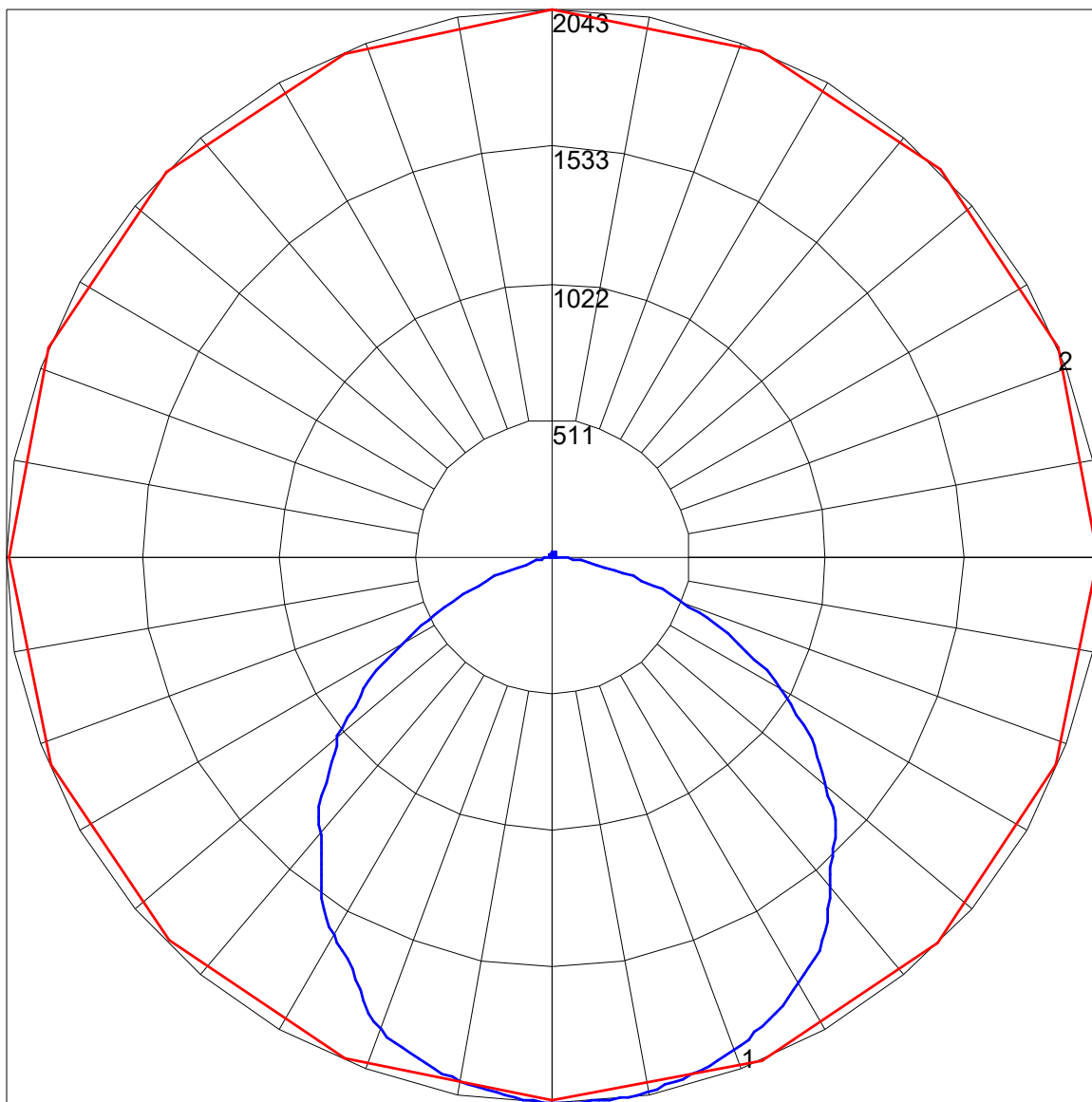
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	99
1	109	105	101	98	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	86	82	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	43	37	33	31
9	57	44	36	31	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2043.4 Located At Horizontal Angle = 67.5, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)