



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTLOWT40120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 4106  
 [TESTLAB] TUV SUD America  
 [ISSUEDATE] 5/4/2021 1:47:37 PM  
 [MANUFAC] TUV SUD America  
 [LUMCAT] BX910LED4HTLOWT40120-277V\_P  
 [LUMINAIRE] 7984-1  
 [\_AMBIENT] 24.8 deg C  
 [\_POWERFACTOR] 0.9984  
 [\_ATHD] 4.25%  
 [\_CURRENT] 0.48  
 [\_VOLTAGE] 120.04  
 [\_STABILIZATION] 60:59.6 Stable  
 [\_POWER VARIATION] 0.40 %  
 [\_LIGHT VARIATION] 0.49 %  
 [\_Lumens] 7606.4  
 [\_END VOLTS] 120.04  
 [\_END CURRENT] 0.48  
 [\_END POWER] 56.96

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	3.79 ft
Luminous Height	0.25 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11426	11580	14485
55	4534	8239	11252
65	1224	3909	7600
75	296	1374	4267
85	26	169	1310

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**CANDELA TABULATION**

	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226
<b>2.5</b>	1803.508	1801.947	1802.575	1803.266	1799.752	1800.202	1810.921	1810.869	1806.820	1807.713
<b>5.0</b>	1802.097	1794.925	1794.735	1796.613	1792.212	1793.480	1803.813	1803.634	1800.714	1799.522
<b>7.5</b>	1795.282	1787.910	1788.514	1790.006	1785.214	1783.993	1791.181	1789.436	1787.437	1781.896
<b>10.0</b>	1785.220	1780.785	1780.370	1777.594	1771.609	1768.481	1776.839	1773.873	1772.041	1769.506
<b>12.5</b>	1776.643	1770.676	1769.311	1762.347	1754.980	1751.201	1758.643	1756.449	1746.432	1743.851
<b>15.0</b>	1769.409	1761.955	1758.943	1748.471	1738.368	1729.037	1733.420	1734.682	1720.869	1714.205
<b>17.5</b>	1761.270	1753.396	1743.984	1730.258	1716.993	1705.334	1697.299	1700.444	1687.588	1681.056
<b>20.0</b>	1762.134	1750.723	1728.979	1706.930	1692.322	1670.774	1659.773	1656.081	1645.978	1637.032
<b>22.5</b>	1789.926	1770.365	1730.552	1689.097	1657.999	1629.406	1613.716	1607.380	1596.528	1586.056
<b>25.0</b>	1816.560	1793.710	1744.312	1683.112	1621.503	1579.075	1559.900	1550.488	1535.887	1529.176
<b>27.5</b>	1818.420	1796.210	1737.625	1669.559	1600.940	1531.607	1499.495	1489.323	1474.934	1469.347
<b>30.0</b>	1811.203	1782.507	1711.826	1635.039	1571.650	1493.418	1438.180	1423.515	1411.678	1401.419
<b>32.5</b>	1809.083	1772.772	1685.261	1590.463	1524.994	1454.031	1389.185	1359.158	1343.330	1336.182
<b>35.0</b>	1836.685	1792.546	1677.882	1556.052	1475.355	1399.415	1338.895	1294.272	1279.642	1270.414
<b>37.5</b>	1874.102	1826.179	1696.182	1545.114	1425.416	1337.028	1273.461	1236.177	1209.617	1205.937
<b>40.0</b>	1825.488	1792.495	1705.363	1552.896	1388.684	1274.959	1203.241	1168.243	1135.359	1133.147
<b>42.5</b>	1647.343	1637.764	1620.006	1536.209	1376.853	1218.707	1127.278	1085.783	1053.297	1048.625
<b>45.0</b>	1423.728	1421.787	1442.932	1444.614	1359.700	1170.760	1046.569	998.882	969.431	961.983
<b>47.5</b>	1203.650	1206.691	1240.641	1287.752	1289.053	1129.306	968.682	915.304	887.103	878.907
<b>50.0</b>	990.357	1001.209	1046.621	1107.498	1175.149	1065.012	899.147	830.154	802.040	792.564
<b>52.5</b>	768.799	790.358	859.087	928.126	1030.435	970.635	832.032	745.805	716.688	704.771
<b>55.0</b>	556.335	581.702	673.488	762.774	869.835	859.398	752.003	663.759	634.522	622.207
<b>57.5</b>	394.675	412.284	497.514	611.176	716.625	736.888	661.156	583.920	554.348	542.016
<b>60.0</b>	279.763	293.259	355.421	468.443	582.826	608.267	569.514	509.103	475.643	463.772
<b>62.5</b>	198.513	209.278	253.987	344.172	466.986	491.910	476.387	433.048	400.752	390.799
<b>65.0</b>	143.320	151.396	183.600	248.504	367.505	394.151	390.154	357.990	332.323	323.038
<b>67.5</b>	102.960	109.446	133.039	179.078	278.980	310.516	311.305	289.532	270.023	261.544
<b>70.0</b>	72.259	77.754	95.748	129.030	204.013	241.672	243.487	229.709	214.825	207.873
<b>72.5</b>	49.173	53.533	67.369	92.137	146.546	183.957	185.628	177.748	166.441	161.153
<b>75.0</b>	31.974	35.280	46.259	64.328	103.179	135.729	137.353	133.908	124.883	121.260
<b>77.5</b>	18.991	21.018	29.082	42.843	70.451	96.780	98.035	96.964	89.891	87.529
<b>80.0</b>	10.155	10.886	15.051	24.411	45.297	64.322	65.439	65.572	60.803	59.242
<b>82.5</b>	5.432	5.553	6.762	10.189	24.515	37.624	38.978	39.715	36.801	35.810
<b>85.0</b>	2.436	2.534	2.932	3.704	8.692	16.203	18.069	19.659	18.340	17.649
<b>87.5</b>	0.605	0.651	0.772	1.008	2.327	3.583	4.383	5.852	5.921	5.484
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226
2.5	1807.044	1810.656	1809.279	1794.724	1790.991	1797.863	1796.371	1796.705	1802.212	1796.705
5.0	1795.818	1801.791	1801.993	1785.508	1782.599	1792.788	1789.448	1789.954	1797.684	1789.954
7.5	1782.789	1787.386	1788.958	1772.715	1773.049	1787.760	1784.575	1785.560	1792.552	1785.560
10.0	1768.683	1770.088	1769.581	1757.923	1759.951	1775.428	1774.034	1777.023	1781.833	1777.023
12.5	1744.566	1750.182	1752.048	1741.236	1742.895	1761.034	1764.346	1770.088	1773.297	1770.088
15.0	1716.347	1722.234	1728.132	1720.558	1725.575	1749.370	1755.320	1762.053	1765.244	1762.053
17.5	1680.710	1688.521	1693.526	1692.893	1704.948	1735.885	1744.370	1754.098	1758.130	1754.098
20.0	1638.322	1650.948	1655.510	1658.338	1676.338	1713.312	1733.553	1752.313	1759.709	1752.313
22.5	1588.383	1602.034	1606.228	1614.309	1637.712	1692.374	1740.534	1778.434	1797.460	1778.434
25.0	1531.474	1541.117	1554.520	1560.787	1608.601	1693.221	1766.920	1824.417	1845.037	1824.417
27.5	1468.523	1481.069	1492.318	1514.454	1599.540	1695.704	1776.430	1844.001	1868.371	1844.001
30.0	1402.675	1416.257	1432.656	1484.248	1573.465	1674.945	1765.722	1842.353	1873.981	1842.353
32.5	1339.430	1350.081	1384.554	1453.196	1533.951	1645.096	1751.506	1849.916	1885.524	1849.916
35.0	1275.949	1291.000	1339.459	1404.127	1490.786	1621.100	1757.128	1885.023	1936.570	1885.023
37.5	1206.518	1230.457	1285.488	1347.621	1454.792	1620.276	1798.497	1939.951	1990.593	1939.951
40.0	1131.523	1164.338	1218.125	1289.359	1435.628	1638.466	1805.530	1897.217	1917.106	1897.217
42.5	1050.682	1086.313	1143.579	1239.408	1424.275	1622.736	1696.320	1723.231	1717.880	1723.231
45.0	968.964	1001.537	1064.799	1195.620	1392.422	1514.367	1498.395	1496.183	1483.298	1496.183
47.5	885.076	916.566	989.027	1144.829	1305.055	1339.724	1286.110	1274.849	1263.588	1274.849
50.0	799.281	833.334	919.037	1074.574	1155.352	1148.855	1090.437	1067.795	1051.828	1067.795
52.5	715.415	749.036	847.832	985.450	984.597	968.031	903.433	853.707	823.496	853.707
55.0	633.145	668.298	765.959	867.963	820.143	804.084	709.235	638.784	606.528	638.784
57.5	552.747	590.198	675.711	730.316	676.662	646.560	527.023	458.081	428.941	458.081
60.0	473.967	513.521	591.005	597.295	549.602	493.258	379.953	326.540	307.866	326.540
62.5	399.600	436.919	502.111	481.092	437.236	362.206	272.799	238.418	226.524	238.418
65.0	332.047	361.809	409.824	385.246	334.333	263.278	200.310	176.406	168.019	176.406
67.5	269.862	293.426	323.891	305.245	247.317	191.186	148.792	130.090	124.163	130.090
70.0	214.813	232.785	252.847	235.993	179.879	140.198	109.953	95.167	90.086	95.167
72.5	165.923	180.732	193.064	177.627	129.116	102.666	79.989	68.268	63.596	68.268
75.0	124.779	135.855	143.977	130.164	90.616	73.866	56.609	47.624	43.788	47.624
77.5	90.086	98.300	103.098	91.371	61.632	51.172	38.552	31.720	28.817	31.720
80.0	60.808	66.372	68.976	59.829	39.082	32.757	22.942	18.104	15.754	18.104

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**CANDELA TABULATION - (Cont.)**

82.5	36.881	40.291	41.725	34.255	20.356	16.289	10.696	8.508	7.649	8.508
85.0	18.282	19.935	20.085	14.141	6.566	5.898	4.297	3.900	3.542	3.900
87.5	5.944	6.088	5.270	3.162	1.521	1.711	1.371	1.261	1.031	1.261
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226
2.5	1796.371	1797.863	1790.991	1794.724	1809.279	1810.656	1807.044	1807.713	1806.820	1810.869
5.0	1789.448	1792.788	1782.599	1785.508	1801.993	1801.791	1795.818	1799.522	1800.714	1803.634
7.5	1784.575	1787.760	1773.049	1772.715	1788.958	1787.386	1782.789	1781.896	1787.437	1789.436
10.0	1774.034	1775.428	1759.951	1757.923	1769.581	1770.088	1768.683	1769.506	1772.041	1773.873
12.5	1764.346	1761.034	1742.895	1741.236	1752.048	1750.182	1744.566	1743.851	1746.432	1756.449
15.0	1755.320	1749.370	1725.575	1720.558	1728.132	1722.234	1716.347	1714.205	1720.869	1734.682
17.5	1744.370	1735.885	1704.948	1692.893	1693.526	1688.521	1680.710	1681.056	1687.588	1700.444
20.0	1733.553	1713.312	1676.338	1658.338	1655.510	1650.948	1638.322	1637.032	1645.978	1656.081
22.5	1740.534	1692.374	1637.712	1614.309	1606.228	1602.034	1588.383	1586.056	1596.528	1607.380
25.0	1766.920	1693.221	1608.601	1560.787	1554.520	1541.117	1531.474	1529.176	1535.887	1550.488
27.5	1776.430	1695.704	1599.540	1514.454	1492.318	1481.069	1468.523	1469.347	1474.934	1489.323

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

30.0	1765.722	1674.945	1573.465	1484.248	1432.656	1416.257	1402.675	1401.419	1411.678	1423.515
32.5	1751.506	1645.096	1533.951	1453.196	1384.554	1350.081	1339.430	1336.182	1343.330	1359.158
35.0	1757.128	1621.100	1490.786	1404.127	1339.459	1291.000	1275.949	1270.414	1279.642	1294.272
37.5	1798.497	1620.276	1454.792	1347.621	1285.488	1230.457	1206.518	1205.937	1209.617	1236.177
40.0	1805.530	1638.466	1435.628	1289.359	1218.125	1164.338	1131.523	1133.147	1135.359	1168.243
42.5	1696.320	1622.736	1424.275	1239.408	1143.579	1086.313	1050.682	1048.625	1053.297	1085.783
45.0	1498.395	1514.367	1392.422	1195.620	1064.799	1001.537	968.964	961.983	969.431	998.882
47.5	1286.110	1339.724	1305.055	1144.829	989.027	916.566	885.076	878.907	887.103	915.304
50.0	1090.437	1148.855	1155.352	1074.574	919.037	833.334	799.281	792.564	802.040	830.154
52.5	903.433	968.031	984.597	985.450	847.832	749.036	715.415	704.771	716.688	745.805
55.0	709.235	804.084	820.143	867.963	765.959	668.298	633.145	622.207	634.522	663.759
57.5	527.023	646.560	676.662	730.316	675.711	590.198	552.747	542.016	554.348	583.920
60.0	379.953	493.258	549.602	597.295	591.005	513.521	473.967	463.772	475.643	509.103
62.5	272.799	362.206	437.236	481.092	502.111	436.919	399.600	390.799	400.752	433.048
65.0	200.310	263.278	334.333	385.246	409.824	361.809	332.047	323.038	332.323	357.990
67.5	148.792	191.186	247.317	305.245	323.891	293.426	269.862	261.544	270.023	289.532
70.0	109.953	140.198	179.879	235.993	252.847	232.785	214.813	207.873	214.825	229.709
72.5	79.989	102.666	129.116	177.627	193.064	180.732	165.923	161.153	166.441	177.748
75.0	56.609	73.866	90.616	130.164	143.977	135.855	124.779	121.260	124.883	133.908
77.5	38.552	51.172	61.632	91.371	103.098	98.300	90.086	87.529	89.891	96.964
80.0	22.942	32.757	39.082	59.829	68.976	66.372	60.808	59.242	60.803	65.572
82.5	10.696	16.289	20.356	34.255	41.725	40.291	36.881	35.810	36.801	39.715
85.0	4.297	5.898	6.566	14.141	20.085	19.935	18.282	17.649	18.340	19.659
87.5	1.371	1.711	1.521	3.162	5.270	6.088	5.944	5.484	5.921	5.852
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226	1803.226
2.5	1810.921	1800.202	1799.752	1803.266	1802.575	1801.947	1803.508
5.0	1803.813	1793.480	1792.212	1796.613	1794.735	1794.925	1802.097
7.5	1791.181	1783.993	1785.214	1790.006	1788.514	1787.910	1795.282
10.0	1776.839	1768.481	1771.609	1777.594	1780.370	1780.785	1785.220
12.5	1758.643	1751.201	1754.980	1762.347	1769.311	1770.676	1776.643
15.0	1733.420	1729.037	1738.368	1748.471	1758.943	1761.955	1769.409
17.5	1697.299	1705.334	1716.993	1730.258	1743.984	1753.396	1761.270
20.0	1659.773	1670.774	1692.322	1706.930	1728.979	1750.723	1762.134
22.5	1613.716	1629.406	1657.999	1689.097	1730.552	1770.365	1789.926
25.0	1559.900	1579.075	1621.503	1683.112	1744.312	1793.710	1816.560
27.5	1499.495	1531.607	1600.940	1669.559	1737.625	1796.210	1818.420
30.0	1438.180	1493.418	1571.650	1635.039	1711.826	1782.507	1811.203
32.5	1389.185	1454.031	1524.994	1590.463	1685.261	1772.772	1809.083
35.0	1338.895	1399.415	1475.355	1556.052	1677.882	1792.546	1836.685
37.5	1273.461	1337.028	1425.416	1545.114	1696.182	1826.179	1874.102
40.0	1203.241	1274.959	1388.684	1552.896	1705.363	1792.495	1825.488
42.5	1127.278	1218.707	1376.853	1536.209	1620.006	1637.764	1647.343
45.0	1046.569	1170.760	1359.700	1444.614	1442.932	1421.787	1423.728
47.5	968.682	1129.306	1289.053	1287.752	1240.641	1206.691	1203.650
50.0	899.147	1065.012	1175.149	1107.498	1046.621	1001.209	990.357
52.5	832.032	970.635	1030.435	928.126	859.087	790.358	768.799
55.0	752.003	859.398	869.835	762.774	673.488	581.702	556.335
57.5	661.156	736.888	716.625	611.176	497.514	412.284	394.675
60.0	569.514	608.267	582.826	468.443	355.421	293.259	279.763
62.5	476.387	491.910	466.986	344.172	253.987	209.278	198.513
65.0	390.154	394.151	367.505	248.504	183.600	151.396	143.320
67.5	311.305	310.516	278.980	179.078	133.039	109.446	102.960
70.0	243.487	241.672	204.013	129.030	95.748	77.754	72.259
72.5	185.628	183.957	146.546	92.137	67.369	53.533	49.173
75.0	137.353	135.729	103.179	64.328	46.259	35.280	31.974
77.5	98.035	96.780	70.451	42.843	29.082	21.018	18.991
80.0	65.439	64.322	45.297	24.411	15.051	10.886	10.155
82.5	38.978	37.624	24.515	10.189	6.762	5.553	5.432
85.0	18.069	16.203	8.692	3.704	2.932	2.534	2.436
87.5	4.383	3.583	2.327	1.008	0.772	0.651	0.605
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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

Zone	Lumens	%Lamp	%Fixt
0-20	661.28	N.A.	15.10
0-30	1416.91	N.A.	32.30
0-40	2359.99	N.A.	53.80
0-60	3954.31	N.A.	90.20
0-80	4366.04	N.A.	99.60
0-90	4382.78	N.A.	100.00
10-90	4212.11	N.A.	96.10
20-40	1698.71	N.A.	38.80
20-50	2648.78	N.A.	60.40
40-70	1898.65	N.A.	43.30
60-80	411.72	N.A.	9.40
70-80	107.40	N.A.	2.50
80-90	16.74	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4382.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.67
10-20	490.61
20-30	755.62
30-40	943.09
40-50	950.07
50-60	644.25
60-70	304.33
70-80	107.40
80-90	16.74
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

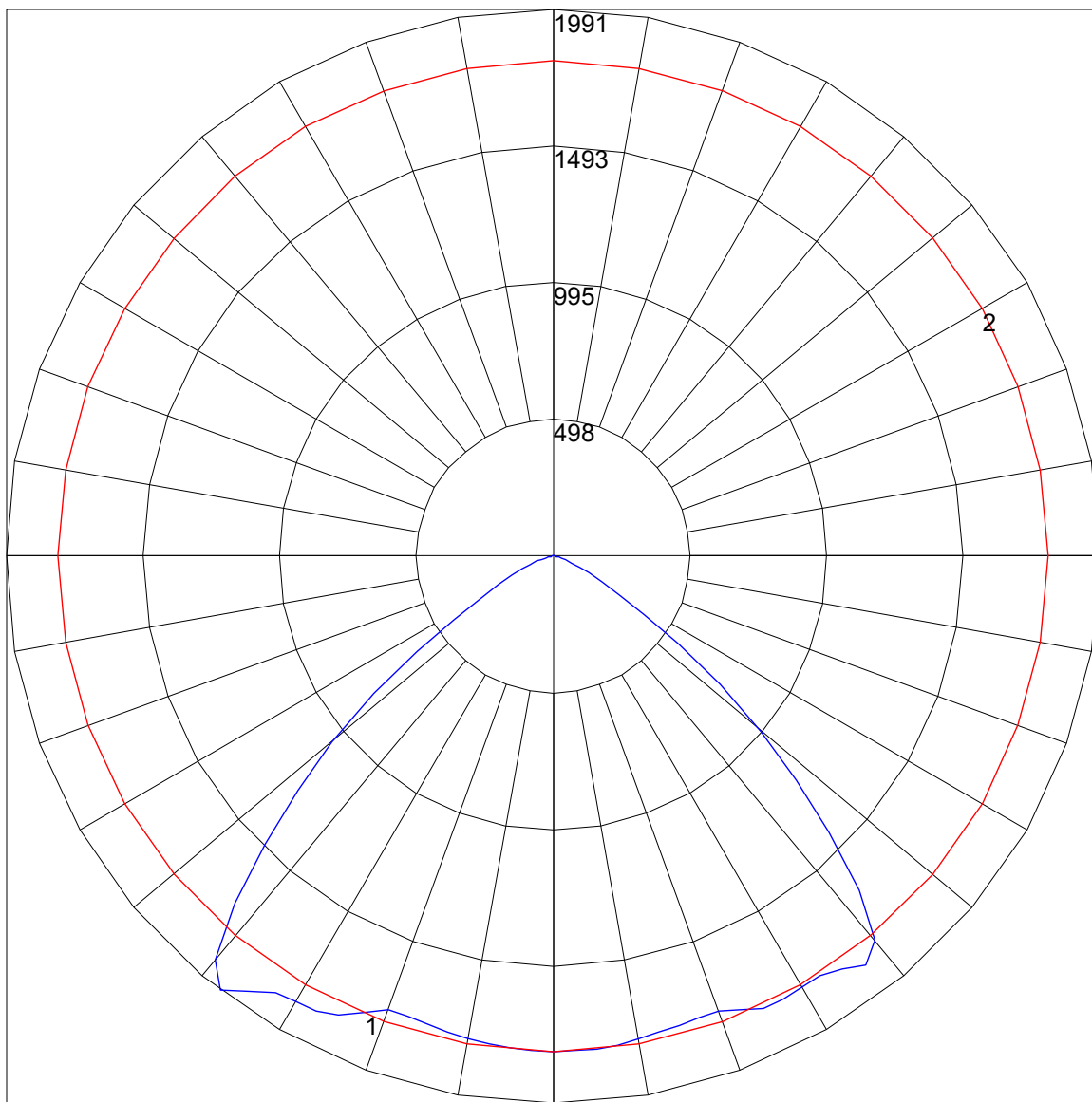
**IES INDOOR REPORT**  
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**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.7	17.1	16.0	17.5	17.8	17.0	18.5	17.4	18.8	19.1
	3H	15.7	17.1	16.1	17.4	17.7	17.7	19.0	18.0	19.3	19.7
	4H	15.7	16.9	16.1	17.3	17.7	17.8	19.1	18.2	19.4	19.8
	6H	15.6	16.8	16.0	17.1	17.5	17.8	19.0	18.2	19.3	19.7
	8H	15.6	16.7	16.0	17.1	17.5	17.8	18.9	18.2	19.3	19.7
	12H	15.5	16.6	16.0	17.0	17.4	17.8	18.8	18.2	19.2	19.6
4H	2H	16.4	17.7	16.8	18.0	18.4	17.5	18.7	17.9	19.1	19.4
	3H	16.6	17.6	17.0	18.0	18.4	18.3	19.3	18.7	19.7	20.1
	4H	16.5	17.5	17.0	17.9	18.3	18.5	19.4	18.9	19.8	20.2
	6H	16.5	17.3	17.0	17.7	18.2	18.5	19.3	19.0	19.8	20.2
	8H	16.4	17.2	16.9	17.6	18.1	18.5	19.2	19.0	19.7	20.2
	12H	16.4	17.1	16.9	17.5	18.0	18.5	19.1	19.0	19.6	20.1
8H	4H	16.7	17.4	17.1	17.9	18.3	18.5	19.2	18.9	19.6	20.1
	6H	16.6	17.2	17.1	17.7	18.2	18.5	19.2	19.0	19.6	20.1
	8H	16.6	17.1	17.1	17.6	18.1	18.5	19.1	19.0	19.6	20.1
	12H	16.5	17.0	17.0	17.5	18.1	18.5	19.0	19.0	19.5	20.1
12H	4H	16.7	17.3	17.2	17.8	18.3	18.4	19.1	18.9	19.6	20.0
	6H	16.6	17.2	17.1	17.6	18.2	18.5	19.1	19.0	19.5	20.1
	8H	16.6	17.1	17.1	17.5	18.1	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1990.593 Located At Horizontal Angle = 180, Vertical Angle = 37.5  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)