



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTHOWT50120-277V_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] BX910LED4HTHOWT50120-277V_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	7312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	50
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	19063	19320	24167
55	7564	13747	18773
65	2042	6522	12680
75	494	2292	7119
85	43	281	2186

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507
2.5	3008.978	3006.373	3007.421	3008.574	3002.712	3003.461	3021.346	3021.259	3014.503	3015.993
5.0	3006.623	2994.659	2994.342	2997.474	2990.132	2992.247	3009.487	3009.189	3004.317	3002.327
7.5	2995.254	2982.954	2983.963	2986.452	2978.456	2976.419	2988.412	2985.500	2982.166	2972.921
10.0	2978.466	2971.066	2970.374	2965.742	2955.757	2950.539	2964.483	2959.534	2956.478	2952.250
12.5	2964.157	2954.201	2951.923	2940.305	2928.013	2921.709	2934.125	2930.464	2913.752	2909.447
15.0	2952.086	2939.651	2934.625	2917.154	2900.298	2884.730	2892.043	2894.148	2871.103	2859.984
17.5	2938.507	2925.371	2909.668	2886.767	2864.635	2845.185	2831.779	2837.026	2815.576	2804.679
20.0	2939.949	2920.912	2884.634	2847.847	2823.476	2787.525	2769.170	2763.010	2746.154	2731.229
22.5	2986.317	2953.682	2887.257	2818.094	2766.210	2718.506	2692.328	2681.757	2663.652	2646.181
25.0	3030.754	2992.631	2910.216	2808.109	2705.321	2634.534	2602.542	2586.839	2562.478	2551.282
27.5	3033.858	2996.802	2899.058	2785.497	2671.013	2555.338	2501.762	2484.790	2460.785	2451.463
30.0	3021.817	2973.940	2856.015	2727.904	2622.146	2491.623	2399.463	2374.996	2355.248	2338.132
32.5	3018.280	2957.699	2811.694	2653.532	2544.305	2425.910	2317.721	2267.624	2241.215	2229.289
35.0	3064.331	2990.690	2799.383	2596.122	2461.486	2334.788	2233.816	2159.367	2134.958	2119.562
37.5	3126.758	3046.803	2829.914	2577.873	2378.168	2230.702	2124.646	2062.441	2018.129	2011.988
40.0	3045.649	2990.603	2845.233	2590.856	2316.885	2127.145	2007.491	1949.100	1894.237	1890.547
42.5	2748.431	2732.450	2702.822	2563.016	2297.146	2033.293	1880.754	1811.523	1757.323	1749.529
45.0	2375.352	2372.113	2407.392	2410.198	2268.527	1953.300	1746.099	1666.537	1617.401	1604.976
47.5	2008.173	2013.247	2069.888	2148.489	2150.660	1884.137	1616.152	1527.096	1480.046	1466.371
50.0	1652.315	1670.420	1746.185	1847.753	1960.623	1776.870	1500.140	1385.032	1338.125	1322.317
52.5	1282.666	1318.636	1433.303	1548.488	1719.181	1619.410	1388.165	1244.303	1195.724	1175.841
55.0	928.191	970.514	1123.649	1272.614	1451.235	1433.822	1254.643	1107.418	1058.638	1038.091
57.5	658.477	687.855	830.054	1019.688	1195.619	1229.427	1103.074	974.214	924.876	904.301
60.0	466.758	489.274	592.985	781.552	972.388	1014.835	950.179	849.389	793.565	773.759
62.5	331.199	349.160	423.753	574.217	779.121	820.704	794.805	722.499	668.616	652.010
65.0	239.116	252.589	306.319	414.604	613.147	657.603	650.933	597.271	554.449	538.958
67.5	171.779	182.600	221.962	298.775	465.451	518.066	519.382	483.056	450.507	436.361
70.0	120.557	129.725	159.747	215.274	340.377	403.207	406.234	383.247	358.415	346.815
72.5	82.041	89.315	112.399	153.722	244.498	306.915	309.701	296.555	277.691	268.869
75.0	53.345	58.861	77.178	107.324	172.144	226.450	229.160	223.413	208.354	202.310
77.5	31.684	35.067	48.521	71.479	117.540	161.467	163.562	161.775	149.974	146.034
80.0	16.942	18.163	25.111	40.727	75.573	107.315	109.179	109.400	101.443	98.839
82.5	9.062	9.264	11.282	17.000	40.900	62.773	65.031	66.261	61.398	59.745
85.0	4.065	4.228	4.891	6.179	14.501	27.033	30.147	32.799	30.598	29.445
87.5	1.009	1.086	1.288	1.682	3.882	5.977	7.313	9.764	9.879	9.149
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

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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	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507
2.5	3014.878	3020.904	3018.607	2994.322	2988.095	2999.560	2997.071	2997.628	3006.815	2997.628
5.0	2996.148	3006.114	3006.450	2978.946	2974.093	2991.093	2985.520	2986.365	2999.262	2986.365
7.5	2974.410	2982.079	2984.703	2957.603	2958.160	2982.704	2977.389	2979.033	2990.699	2979.033
10.0	2950.876	2953.220	2952.375	2932.924	2936.307	2962.129	2959.803	2964.791	2972.815	2964.791
12.5	2910.638	2920.008	2923.122	2905.084	2907.852	2938.113	2943.639	2953.220	2958.573	2953.220
15.0	2863.559	2873.380	2883.221	2870.584	2878.954	2918.653	2928.580	2939.814	2945.138	2939.814
17.5	2804.102	2817.133	2825.484	2824.427	2844.541	2896.156	2910.312	2926.543	2933.270	2926.543
20.0	2733.382	2754.447	2762.058	2766.777	2796.808	2858.495	2892.264	2923.564	2935.903	2923.564
22.5	2650.063	2672.839	2679.835	2693.318	2732.363	2823.562	2903.911	2967.145	2998.887	2967.145
25.0	2555.116	2571.204	2593.566	2604.022	2683.794	2824.975	2947.935	3043.862	3078.266	3043.862
27.5	2450.089	2471.019	2489.788	2526.719	2668.678	2829.117	2963.801	3076.536	3117.196	3076.536
30.0	2340.227	2362.888	2390.247	2476.324	2625.173	2794.482	2945.936	3073.787	3126.556	3073.787
32.5	2234.709	2252.478	2309.994	2424.517	2559.249	2744.683	2922.218	3086.405	3145.814	3086.405
35.0	2128.798	2153.909	2234.758	2342.649	2487.231	2704.648	2931.598	3144.978	3230.978	3144.978
37.5	2012.959	2052.898	2144.712	2248.375	2427.179	2703.274	3000.617	3236.619	3321.110	3236.619
40.0	1887.836	1942.585	2032.323	2151.170	2395.206	2733.622	3012.351	3165.323	3198.506	3165.323
42.5	1752.960	1812.408	1907.950	2067.832	2376.265	2707.377	2830.145	2875.043	2866.115	2875.043
45.0	1616.623	1670.968	1776.514	1994.777	2323.121	2526.575	2499.926	2496.236	2474.738	2496.236
47.5	1476.663	1529.201	1650.095	1910.036	2177.357	2235.200	2145.750	2126.962	2108.175	2126.962
50.0	1333.522	1390.336	1533.324	1792.822	1927.593	1916.753	1819.288	1781.511	1754.873	1781.511
52.5	1193.600	1249.694	1414.525	1644.127	1642.705	1615.066	1507.290	1424.327	1373.923	1424.327
55.0	1056.341	1114.991	1277.928	1448.112	1368.329	1341.537	1183.289	1065.749	1011.933	1065.749
57.5	922.204	984.689	1127.359	1218.462	1128.944	1078.723	879.286	764.264	715.647	764.264
60.0	790.768	856.760	986.034	996.528	916.957	822.952	633.914	544.801	513.645	544.801
62.5	666.694	728.957	837.723	802.656	729.486	604.306	455.139	397.777	377.932	397.777
65.0	553.988	603.643	683.752	642.746	557.803	439.254	334.197	294.316	280.324	294.316
67.5	450.238	489.553	540.380	509.272	412.625	318.975	248.246	217.042	207.153	217.042
70.0	358.395	388.379	421.850	393.731	300.111	233.907	183.445	158.776	150.300	158.776
72.5	276.826	301.533	322.108	296.353	215.418	171.289	133.454	113.898	106.104	113.898
75.0	208.181	226.661	240.212	217.167	151.185	123.239	94.447	79.455	73.055	79.455
77.5	150.300	164.004	172.009	152.443	102.827	85.375	64.320	52.922	48.079	52.922
80.0	101.453	110.736	115.080	99.819	65.204	54.652	38.277	30.204	26.283	30.204

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CANDELA TABULATION - (Cont.)

82.5	61.533	67.222	69.615	57.151	33.962	27.177	17.846	14.194	12.762	14.194
85.0	30.502	33.260	33.510	23.593	10.955	9.841	7.169	6.506	5.910	6.506
87.5	9.918	10.158	8.793	5.276	2.537	2.854	2.287	2.105	1.720	2.105
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	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507
2.5	2997.071	2999.560	2988.095	2994.322	3018.607	3020.904	3014.878	3015.993	3014.503	3021.259
5.0	2985.520	2991.093	2974.093	2978.946	3006.450	3006.114	2996.148	3002.327	3004.317	3009.189
7.5	2977.389	2982.704	2958.160	2957.603	2984.703	2982.079	2974.410	2972.921	2982.166	2985.500
10.0	2959.803	2962.129	2936.307	2932.924	2952.375	2953.220	2950.876	2952.250	2956.478	2959.534
12.5	2943.639	2938.113	2907.852	2905.084	2923.122	2920.008	2910.638	2909.447	2913.752	2930.464
15.0	2928.580	2918.653	2878.954	2870.584	2883.221	2873.380	2863.559	2859.984	2871.103	2894.148
17.5	2910.312	2896.156	2844.541	2824.427	2825.484	2817.133	2804.102	2804.679	2815.576	2837.026
20.0	2892.264	2858.495	2796.808	2766.777	2762.058	2754.447	2733.382	2731.229	2746.154	2763.010
22.5	2903.911	2823.562	2732.363	2693.318	2679.835	2672.839	2650.063	2646.181	2663.652	2681.757
25.0	2947.935	2824.975	2683.794	2604.022	2593.566	2571.204	2555.116	2551.282	2562.478	2586.839
27.5	2963.801	2829.117	2668.678	2526.719	2489.788	2471.019	2450.089	2451.463	2460.785	2484.790

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CANDELA TABULATION - (Cont.)

30.0	2945.936	2794.482	2625.173	2476.324	2390.247	2362.888	2340.227	2338.132	2355.248	2374.996
32.5	2922.218	2744.683	2559.249	2424.517	2309.994	2252.478	2234.709	2229.289	2241.215	2267.624
35.0	2931.598	2704.648	2487.231	2342.649	2234.758	2153.909	2128.798	2119.562	2134.958	2159.367
37.5	3000.617	2703.274	2427.179	2248.375	2144.712	2052.898	2012.959	2011.988	2018.129	2062.441
40.0	3012.351	2733.622	2395.206	2151.170	2032.323	1942.585	1887.836	1890.547	1894.237	1949.100
42.5	2830.145	2707.377	2376.265	2067.832	1907.950	1812.408	1752.960	1749.529	1757.323	1811.523
45.0	2499.926	2526.575	2323.121	1994.777	1776.514	1670.968	1616.623	1604.976	1617.401	1666.537
47.5	2145.750	2235.200	2177.357	1910.036	1650.095	1529.201	1476.663	1466.371	1480.046	1527.096
50.0	1819.288	1916.753	1927.593	1792.822	1533.324	1390.336	1333.522	1322.317	1338.125	1385.032
52.5	1507.290	1615.066	1642.705	1644.127	1414.525	1249.694	1193.600	1175.841	1195.724	1244.303
55.0	1183.289	1341.537	1368.329	1448.112	1277.928	1114.991	1056.341	1038.091	1058.638	1107.418
57.5	879.286	1078.723	1128.944	1218.462	1127.359	984.689	922.204	904.301	924.876	974.214
60.0	633.914	822.952	916.957	996.528	986.034	856.760	790.768	773.759	793.565	849.389
62.5	455.139	604.306	729.486	802.656	837.723	728.957	666.694	652.010	668.616	722.499
65.0	334.197	439.254	557.803	642.746	683.752	603.643	553.988	538.958	554.449	597.271
67.5	248.246	318.975	412.625	509.272	540.380	489.553	450.238	436.361	450.507	483.056
70.0	183.445	233.907	300.111	393.731	421.850	388.379	358.395	346.815	358.415	383.247
72.5	133.454	171.289	215.418	296.353	322.108	301.533	276.826	268.869	277.691	296.555
75.0	94.447	123.239	151.185	217.167	240.212	226.661	208.181	202.310	208.354	223.413
77.5	64.320	85.375	102.827	152.443	172.009	164.004	150.300	146.034	149.974	161.775
80.0	38.277	54.652	65.204	99.819	115.080	110.736	101.453	98.839	101.443	109.400
82.5	17.846	27.177	33.962	57.151	69.615	67.222	61.533	59.745	61.398	66.261
85.0	7.169	9.841	10.955	23.593	33.510	33.260	30.502	29.445	30.598	32.799
87.5	2.287	2.854	2.537	5.276	8.793	10.158	9.918	9.149	9.879	9.764
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

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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

	300	310	320	330	340	350	360
0.0	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507	3008.507
2.5	3021.346	3003.461	3002.712	3008.574	3007.421	3006.373	3008.978
5.0	3009.487	2992.247	2990.132	2997.474	2994.342	2994.659	3006.623
7.5	2988.412	2976.419	2978.456	2986.452	2983.963	2982.954	2995.254
10.0	2964.483	2950.539	2955.757	2965.742	2970.374	2971.066	2978.466
12.5	2934.125	2921.709	2928.013	2940.305	2951.923	2954.201	2964.157
15.0	2892.043	2884.730	2900.298	2917.154	2934.625	2939.651	2952.086
17.5	2831.779	2845.185	2864.635	2886.767	2909.668	2925.371	2938.507
20.0	2769.170	2787.525	2823.476	2847.847	2884.634	2920.912	2939.949
22.5	2692.328	2718.506	2766.210	2818.094	2887.257	2953.682	2986.317
25.0	2602.542	2634.534	2705.321	2808.109	2910.216	2992.631	3030.754
27.5	2501.762	2555.338	2671.013	2785.497	2899.058	2996.802	3033.858
30.0	2399.463	2491.623	2622.146	2727.904	2856.015	2973.940	3021.817
32.5	2317.721	2425.910	2544.305	2653.532	2811.694	2957.699	3018.280
35.0	2233.816	2334.788	2461.486	2596.122	2799.383	2990.690	3064.331
37.5	2124.646	2230.702	2378.168	2577.873	2829.914	3046.803	3126.758
40.0	2007.491	2127.145	2316.885	2590.856	2845.233	2990.603	3045.649
42.5	1880.754	2033.293	2297.146	2563.016	2702.822	2732.450	2748.431
45.0	1746.099	1953.300	2268.527	2410.198	2407.392	2372.113	2375.352
47.5	1616.152	1884.137	2150.660	2148.489	2069.888	2013.247	2008.173
50.0	1500.140	1776.870	1960.623	1847.753	1746.185	1670.420	1652.315
52.5	1388.165	1619.410	1719.181	1548.488	1433.303	1318.636	1282.666
55.0	1254.643	1433.822	1451.235	1272.614	1123.649	970.514	928.191
57.5	1103.074	1229.427	1195.619	1019.688	830.054	687.855	658.477
60.0	950.179	1014.835	972.388	781.552	592.985	489.274	466.758
62.5	794.805	820.704	779.121	574.217	423.753	349.160	331.199
65.0	650.933	657.603	613.147	414.604	306.319	252.589	239.116
67.5	519.382	518.066	465.451	298.775	221.962	182.600	171.779
70.0	406.234	403.207	340.377	215.274	159.747	129.725	120.557
72.5	309.701	306.915	244.498	153.722	112.399	89.315	82.041
75.0	229.160	226.450	172.144	107.324	77.178	58.861	53.345
77.5	163.562	161.467	117.540	71.479	48.521	35.067	31.684
80.0	109.179	107.315	75.573	40.727	25.111	18.163	16.942
82.5	65.031	62.773	40.900	17.000	11.282	9.264	9.062
85.0	30.147	27.033	14.501	6.179	4.891	4.228	4.065
87.5	7.313	5.977	3.882	1.682	1.288	1.086	1.009
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1103.29	N.A.	15.10
0-30	2363.97	N.A.	32.30
0-40	3937.42	N.A.	53.80
0-60	6597.39	N.A.	90.20
0-80	7284.31	N.A.	99.60
0-90	7312.25	N.A.	100.00
10-90	7027.5	N.A.	96.10
20-40	2834.13	N.A.	38.80
20-50	4419.24	N.A.	60.40
40-70	3167.71	N.A.	43.30
60-80	686.92	N.A.	9.40
70-80	179.18	N.A.	2.50
80-90	27.94	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	7312.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	284.75
10-20	818.54
20-30	1260.68
30-40	1573.45
40-50	1585.11
50-60	1074.86
60-70	507.74
70-80	179.18
80-90	27.94
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	92	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	51	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

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UGR TABLE - CORRECTED

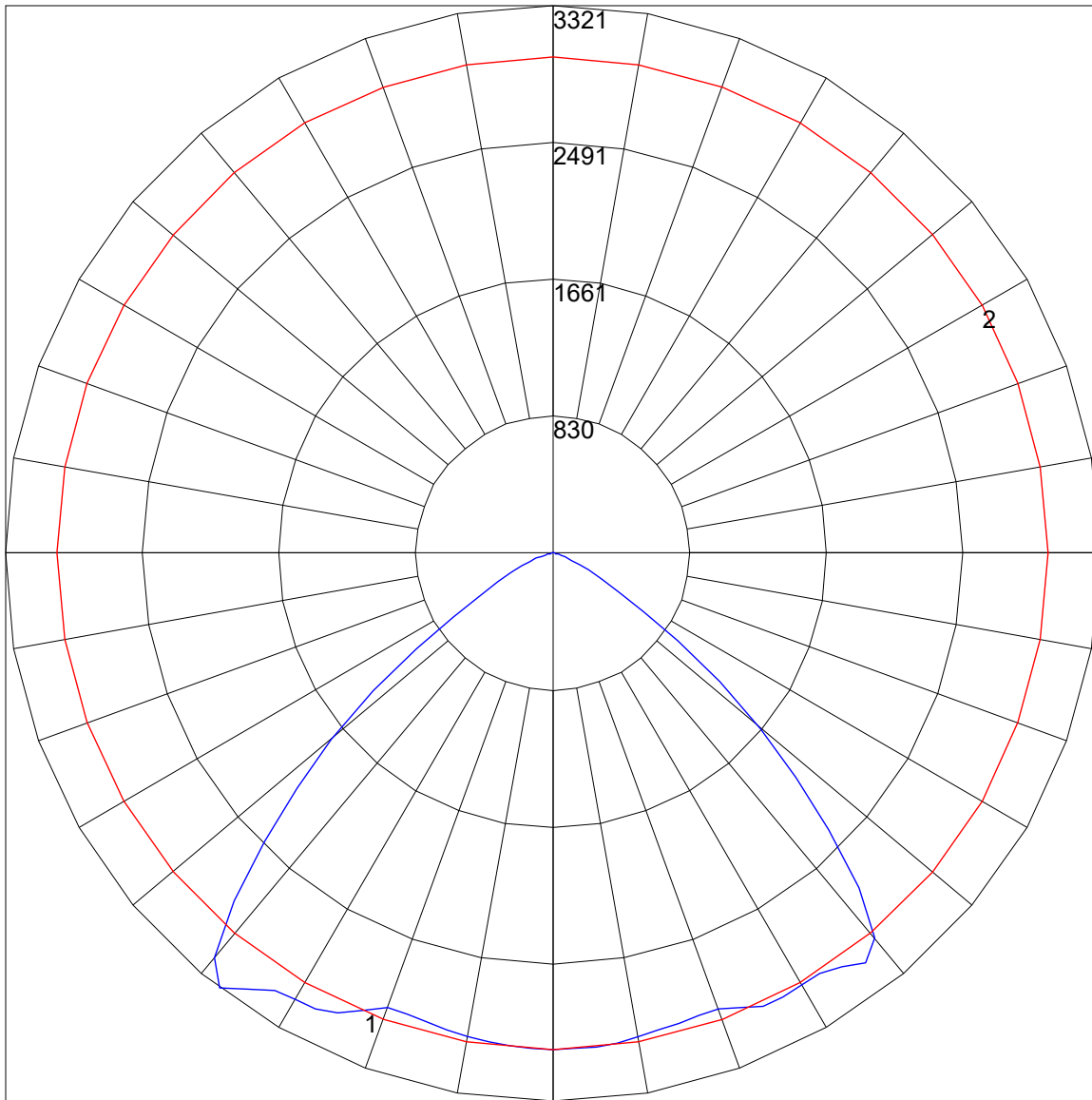
Reflectances

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	17.5	18.9	17.8	19.3	19.6	18.8	20.3	19.2	20.6	20.9
	3H	17.5	18.9	17.9	19.2	19.5	19.5	20.8	19.8	21.1	21.5
	4H	17.5	18.7	17.9	19.1	19.5	19.6	20.9	20.0	21.2	21.6
	6H	17.4	18.6	17.8	18.9	19.3	19.6	20.8	20.0	21.1	21.5
	8H	17.4	18.5	17.8	18.9	19.3	19.6	20.7	20.0	21.1	21.5
	12H	17.3	18.4	17.8	18.8	19.2	19.6	20.6	20.0	21.0	21.4
4H	2H	18.2	19.5	18.6	19.8	20.2	19.3	20.5	19.7	20.9	21.2
	3H	18.4	19.4	18.8	19.8	20.2	20.1	21.1	20.5	21.5	21.9
	4H	18.3	19.3	18.8	19.7	20.1	20.3	21.2	20.7	21.6	22.0
	6H	18.3	19.1	18.8	19.5	20.0	20.3	21.1	20.8	21.6	22.0
	8H	18.2	19.0	18.7	19.4	19.9	20.3	21.0	20.8	21.5	22.0
	12H	18.2	18.9	18.7	19.3	19.8	20.3	20.9	20.8	21.4	21.9
8H	4H	18.5	19.2	18.9	19.7	20.1	20.3	21.0	20.7	21.4	21.9
	6H	18.4	19.0	18.9	19.5	20.0	20.3	21.0	20.8	21.4	21.9
	8H	18.4	18.9	18.9	19.4	19.9	20.3	20.9	20.8	21.4	21.9
	12H	18.3	18.8	18.8	19.3	19.9	20.3	20.8	20.8	21.3	21.9
12H	4H	18.5	19.1	19.0	19.6	20.1	20.2	20.9	20.7	21.4	21.8
	6H	18.4	19.0	18.9	19.4	20.0	20.3	20.9	20.8	21.3	21.9
	8H	18.4	18.9	18.9	19.3	19.9	20.3	20.8	20.8	21.3	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 3321.11 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)