

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTHOWT35120-277V_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] BEGHELLI
[LUMCAT] LINEAR - INDOOR / OUTDOOR LUMINAIRE
[LUMINAIRE] BX910LED4HTHOWT35120-277V_P
[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	7213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	18805	19058	23840
55	7462	13561	18519
65	2015	6433	12509
75	488	2261	7023
85	42	277	2157

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809
2.5	2968.273	2965.704	2966.738	2967.875	2962.092	2962.832	2980.474	2980.389	2973.724	2975.194
5.0	2965.951	2954.148	2953.835	2956.926	2949.683	2951.769	2968.776	2968.482	2963.676	2961.713
7.5	2954.736	2942.602	2943.597	2946.052	2938.165	2936.155	2947.986	2945.114	2941.824	2932.704
10.0	2938.174	2930.875	2930.192	2925.623	2915.773	2910.626	2924.381	2919.499	2916.484	2912.313
12.5	2924.059	2914.237	2911.991	2900.529	2888.404	2882.186	2894.434	2890.822	2874.336	2870.089
15.0	2912.152	2899.885	2894.927	2877.692	2861.064	2845.706	2852.921	2854.997	2832.264	2821.295
17.5	2898.757	2885.797	2870.307	2847.716	2825.884	2806.696	2793.472	2798.648	2777.488	2766.738
20.0	2900.179	2881.399	2845.612	2809.322	2785.281	2749.816	2731.709	2725.633	2709.005	2694.282
22.5	2945.920	2913.725	2848.200	2779.972	2728.790	2681.731	2655.907	2645.479	2627.619	2610.384
25.0	2989.755	2952.148	2870.847	2770.122	2668.724	2598.895	2567.336	2551.845	2527.814	2516.769
27.5	2992.817	2956.262	2859.841	2747.816	2634.881	2520.770	2467.919	2451.177	2427.496	2418.301
30.0	2980.939	2933.709	2817.380	2691.002	2586.675	2457.918	2367.004	2342.868	2323.387	2306.503
32.5	2977.450	2917.688	2773.658	2617.637	2509.887	2393.093	2286.368	2236.948	2210.897	2199.133
35.0	3022.878	2950.233	2761.515	2561.003	2428.188	2303.204	2203.598	2130.156	2106.077	2090.890
37.5	3084.460	3005.587	2791.633	2543.001	2345.997	2200.526	2095.905	2034.541	1990.828	1984.771
40.0	3004.449	2950.148	2806.744	2555.808	2285.543	2098.370	1980.334	1922.734	1868.612	1864.972
42.5	2711.252	2695.486	2666.260	2528.345	2266.071	2005.788	1855.312	1787.018	1733.551	1725.862
45.0	2343.219	2340.024	2374.825	2377.594	2237.839	1926.876	1722.478	1643.993	1595.522	1583.264
47.5	1981.007	1986.013	2041.888	2119.425	2121.567	1858.649	1594.290	1506.438	1460.024	1446.534
50.0	1629.963	1647.823	1722.563	1822.758	1934.100	1752.833	1479.847	1366.296	1320.024	1304.429
52.5	1265.315	1300.798	1413.914	1527.541	1695.925	1597.503	1369.386	1227.470	1179.549	1159.935
55.0	915.635	957.385	1108.449	1255.399	1431.603	1414.426	1237.671	1092.437	1044.317	1024.049
57.5	649.570	678.550	818.826	1005.894	1179.445	1212.795	1088.152	961.035	912.365	892.068
60.0	460.444	482.655	584.963	770.980	959.234	1001.107	937.326	837.899	782.830	763.292
62.5	326.719	344.437	418.021	566.449	768.582	809.602	784.053	712.725	659.571	643.190
65.0	235.881	249.172	302.175	408.996	604.852	648.707	642.128	589.191	546.949	531.667
67.5	169.455	180.129	218.960	294.733	459.154	511.057	512.356	476.522	444.413	430.458
70.0	118.927	127.971	157.586	212.361	335.772	397.752	400.739	378.062	353.566	342.124
72.5	80.931	88.107	110.878	151.642	241.190	302.763	305.512	292.543	273.934	265.231
75.0	52.623	58.065	76.134	105.873	169.815	223.387	226.060	220.391	205.536	199.573
77.5	31.256	34.593	47.865	70.512	115.950	159.283	161.350	159.586	147.945	144.058
80.0	16.713	17.917	24.771	40.176	74.551	105.863	107.702	107.920	100.071	97.502
82.5	8.940	9.139	11.130	16.770	40.347	61.923	64.151	65.365	60.568	58.937
85.0	4.010	4.171	4.825	6.096	14.305	26.667	29.739	32.355	30.184	29.047
87.5	0.995	1.071	1.270	1.659	3.830	5.897	7.214	9.632	9.745	9.025
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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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	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809
2.5	2974.094	2980.038	2977.772	2953.816	2947.673	2958.983	2956.528	2957.078	2966.140	2957.078
5.0	2955.618	2965.448	2965.780	2938.648	2933.861	2950.631	2945.133	2945.967	2958.689	2945.967
7.5	2934.174	2941.739	2944.327	2917.593	2918.143	2942.355	2937.113	2938.734	2950.242	2938.734
10.0	2910.957	2913.270	2912.436	2893.249	2896.586	2922.058	2919.764	2924.684	2932.600	2924.684
12.5	2871.265	2880.508	2883.579	2865.785	2868.515	2898.368	2903.819	2913.270	2918.551	2913.270
15.0	2824.822	2834.511	2844.218	2831.752	2840.009	2879.171	2888.964	2900.046	2905.298	2900.046
17.5	2766.169	2779.024	2787.262	2786.219	2806.061	2856.978	2870.942	2886.954	2893.590	2886.954
20.0	2696.406	2717.186	2724.694	2729.349	2758.974	2819.826	2853.139	2884.015	2896.187	2884.015
22.5	2614.214	2636.682	2643.583	2656.884	2695.401	2785.366	2864.629	2927.007	2958.319	2927.007
25.0	2520.552	2536.421	2558.481	2568.796	2647.489	2786.760	2908.056	3002.686	3036.624	3002.686
27.5	2416.945	2437.592	2456.107	2492.539	2632.577	2790.846	2923.708	3034.918	3075.028	3034.918
30.0	2308.570	2330.924	2357.913	2442.825	2589.661	2756.680	2906.085	3032.207	3084.261	3032.207
32.5	2204.479	2222.008	2278.746	2391.719	2524.628	2707.554	2882.688	3044.654	3103.259	3044.654
35.0	2100.000	2124.771	2204.527	2310.959	2453.585	2668.061	2891.940	3102.434	3187.271	3102.434
37.5	1985.728	2025.127	2115.699	2217.960	2394.345	2666.705	2960.026	3192.836	3276.184	3192.836
40.0	1862.299	1916.306	2004.830	2122.070	2362.805	2696.643	2971.601	3122.504	3155.238	3122.504
42.5	1729.247	1787.890	1882.140	2039.859	2344.120	2670.753	2791.860	2836.151	2827.344	2836.151
45.0	1594.754	1648.363	1752.482	1967.792	2291.695	2492.396	2466.108	2462.468	2441.261	2462.468
47.5	1456.687	1508.515	1627.773	1884.197	2147.903	2204.963	2116.723	2098.189	2079.656	2098.189
50.0	1315.483	1371.529	1512.581	1768.570	1901.517	1890.824	1794.678	1757.412	1731.133	1757.412
52.5	1177.454	1232.789	1395.390	1621.886	1620.483	1593.218	1486.900	1405.059	1355.337	1405.059
55.0	1042.051	1099.908	1260.641	1428.522	1349.819	1323.389	1167.282	1051.332	998.244	1051.332
57.5	909.729	971.368	1112.108	1201.979	1113.673	1064.130	867.392	753.925	705.966	753.925
60.0	780.071	845.170	972.695	983.048	904.553	811.820	625.339	537.431	506.697	537.431
62.5	657.675	719.096	826.391	791.798	719.617	596.131	448.982	392.396	372.820	392.396
65.0	546.494	595.477	674.502	634.051	550.257	433.312	329.676	290.334	276.532	290.334
67.5	444.147	482.930	533.070	502.383	407.043	314.660	244.887	214.106	204.351	214.106
70.0	353.547	383.125	416.144	388.405	296.051	230.743	180.964	156.629	148.267	156.629
72.5	273.081	297.454	317.751	292.344	212.504	168.972	131.649	112.357	104.669	112.357
75.0	205.365	223.595	236.962	214.229	149.139	121.572	93.169	78.381	72.067	78.381
77.5	148.267	161.786	169.683	150.381	101.436	84.220	63.450	52.206	47.428	52.206
80.0	100.080	109.238	113.523	98.469	64.322	53.913	37.759	29.796	25.928	29.796

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CANDELA TABULATION - (Cont.)

82.5	60.700	66.313	68.673	56.378	33.502	26.809	17.604	14.002	12.589	14.002
85.0	30.090	32.810	33.057	23.273	10.807	9.708	7.072	6.418	5.830	6.418
87.5	9.783	10.020	8.674	5.205	2.503	2.816	2.256	2.076	1.697	2.076
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	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809
2.5	2956.528	2958.983	2947.673	2953.816	2977.772	2980.038	2974.094	2975.194	2973.724	2980.389
5.0	2945.133	2950.631	2933.861	2938.648	2965.780	2965.448	2955.618	2961.713	2963.676	2968.482
7.5	2937.113	2942.355	2918.143	2917.593	2944.327	2941.739	2934.174	2932.704	2941.824	2945.114
10.0	2919.764	2922.058	2896.586	2893.249	2912.436	2913.270	2910.957	2912.313	2916.484	2919.499
12.5	2903.819	2898.368	2868.515	2865.785	2883.579	2880.508	2871.265	2870.089	2874.336	2890.822
15.0	2888.964	2879.171	2840.009	2831.752	2844.218	2834.511	2824.822	2821.295	2832.264	2854.997
17.5	2870.942	2856.978	2806.061	2786.219	2787.262	2779.024	2766.169	2766.738	2777.488	2798.648
20.0	2853.139	2819.826	2758.974	2729.349	2724.694	2717.186	2696.406	2694.282	2709.005	2725.633
22.5	2864.629	2785.366	2695.401	2656.884	2643.583	2636.682	2614.214	2610.384	2627.619	2645.479
25.0	2908.056	2786.760	2647.489	2568.796	2558.481	2536.421	2520.552	2516.769	2527.814	2551.845
27.5	2923.708	2790.846	2632.577	2492.539	2456.107	2437.592	2416.945	2418.301	2427.496	2451.177

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CANDELA TABULATION - (Cont.)

30.0	2906.085	2756.680	2589.661	2442.825	2357.913	2330.924	2308.570	2306.503	2323.387	2342.868
32.5	2882.688	2707.554	2524.628	2391.719	2278.746	2222.008	2204.479	2199.133	2210.897	2236.948
35.0	2891.940	2668.061	2453.585	2310.959	2204.527	2124.771	2100.000	2090.890	2106.077	2130.156
37.5	2960.026	2666.705	2394.345	2217.960	2115.699	2025.127	1985.728	1984.771	1990.828	2034.541
40.0	2971.601	2696.643	2362.805	2122.070	2004.830	1916.306	1862.299	1864.972	1868.612	1922.734
42.5	2791.860	2670.753	2344.120	2039.859	1882.140	1787.890	1729.247	1725.862	1733.551	1787.018
45.0	2466.108	2492.396	2291.695	1967.792	1752.482	1648.363	1594.754	1583.264	1595.522	1643.993
47.5	2116.723	2204.963	2147.903	1884.197	1627.773	1508.515	1456.687	1446.534	1460.024	1506.438
50.0	1794.678	1890.824	1901.517	1768.570	1512.581	1371.529	1315.483	1304.429	1320.024	1366.296
52.5	1486.900	1593.218	1620.483	1621.886	1395.390	1232.789	1177.454	1159.935	1179.549	1227.470
55.0	1167.282	1323.389	1349.819	1428.522	1260.641	1099.908	1042.051	1024.049	1044.317	1092.437
57.5	867.392	1064.130	1113.673	1201.979	1112.108	971.368	909.729	892.068	912.365	961.035
60.0	625.339	811.820	904.553	983.048	972.695	845.170	780.071	763.292	782.830	837.899
62.5	448.982	596.131	719.617	791.798	826.391	719.096	657.675	643.190	659.571	712.725
65.0	329.676	433.312	550.257	634.051	674.502	595.477	546.494	531.667	546.949	589.191
67.5	244.887	314.660	407.043	502.383	533.070	482.930	444.147	430.458	444.413	476.522
70.0	180.964	230.743	296.051	388.405	416.144	383.125	353.547	342.124	353.566	378.062
72.5	131.649	168.972	212.504	292.344	317.751	297.454	273.081	265.231	273.934	292.543
75.0	93.169	121.572	149.139	214.229	236.962	223.595	205.365	199.573	205.536	220.391
77.5	63.450	84.220	101.436	150.381	169.683	161.786	148.267	144.058	147.945	159.586
80.0	37.759	53.913	64.322	98.469	113.523	109.238	100.080	97.502	100.071	107.920
82.5	17.604	26.809	33.502	56.378	68.673	66.313	60.700	58.937	60.568	65.365
85.0	7.072	9.708	10.807	23.273	33.057	32.810	30.090	29.047	30.184	32.355
87.5	2.256	2.816	2.503	5.205	8.674	10.020	9.783	9.025	9.745	9.632
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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809	2967.809
2.5	2980.474	2962.832	2962.092	2967.875	2966.738	2965.704	2968.273
5.0	2968.776	2951.769	2949.683	2956.926	2953.835	2954.148	2965.951
7.5	2947.986	2936.155	2938.165	2946.052	2943.597	2942.602	2954.736
10.0	2924.381	2910.626	2915.773	2925.623	2930.192	2930.875	2938.174
12.5	2894.434	2882.186	2888.404	2900.529	2911.991	2914.237	2924.059
15.0	2852.921	2845.706	2861.064	2877.692	2894.927	2899.885	2912.152
17.5	2793.472	2806.696	2825.884	2847.716	2870.307	2885.797	2898.757
20.0	2731.709	2749.816	2785.281	2809.322	2845.612	2881.399	2900.179
22.5	2655.907	2681.731	2728.790	2779.972	2848.200	2913.725	2945.920
25.0	2567.336	2598.895	2668.724	2770.122	2870.847	2952.148	2989.755
27.5	2467.919	2520.770	2634.881	2747.816	2859.841	2956.262	2992.817
30.0	2367.004	2457.918	2586.675	2691.002	2817.380	2933.709	2980.939
32.5	2286.368	2393.093	2509.887	2617.637	2773.658	2917.688	2977.450
35.0	2203.598	2303.204	2428.188	2561.003	2761.515	2950.233	3022.878
37.5	2095.905	2200.526	2345.997	2543.001	2791.633	3005.587	3084.460
40.0	1980.334	2098.370	2285.543	2555.808	2806.744	2950.148	3004.449
42.5	1855.312	2005.788	2266.071	2528.345	2666.260	2695.486	2711.252
45.0	1722.478	1926.876	2237.839	2377.594	2374.825	2340.024	2343.219
47.5	1594.290	1858.649	2121.567	2119.425	2041.888	1986.013	1981.007
50.0	1479.847	1752.833	1934.100	1822.758	1722.563	1647.823	1629.963
52.5	1369.386	1597.503	1695.925	1527.541	1413.914	1300.798	1265.315
55.0	1237.671	1414.426	1431.603	1255.399	1108.449	957.385	915.635
57.5	1088.152	1212.795	1179.445	1005.894	818.826	678.550	649.570
60.0	937.326	1001.107	959.234	770.980	584.963	482.655	460.444
62.5	784.053	809.602	768.582	566.449	418.021	344.437	326.719
65.0	642.128	648.707	604.852	408.996	302.175	249.172	235.881
67.5	512.356	511.057	459.154	294.733	218.960	180.129	169.455
70.0	400.739	397.752	335.772	212.361	157.586	127.971	118.927
72.5	305.512	302.763	241.190	151.642	110.878	88.107	80.931
75.0	226.060	223.387	169.815	105.873	76.134	58.065	52.623
77.5	161.350	159.283	115.950	70.512	47.865	34.593	31.256
80.0	107.702	105.863	74.551	40.176	24.771	17.917	16.713
82.5	64.151	61.923	40.347	16.770	11.130	9.139	8.940
85.0	29.739	26.667	14.305	6.096	4.825	4.171	4.010
87.5	7.214	5.897	3.830	1.659	1.270	1.071	0.995
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	1088.36	N.A.	15.10
0-30	2331.99	N.A.	32.30
0-40	3884.16	N.A.	53.80
0-60	6508.14	N.A.	90.20
0-80	7185.77	N.A.	99.60
0-90	7213.33	N.A.	100.00
10-90	6932.43	N.A.	96.10
20-40	2795.79	N.A.	38.80
20-50	4359.46	N.A.	60.40
40-70	3124.86	N.A.	43.30
60-80	677.63	N.A.	9.40
70-80	176.76	N.A.	2.50
80-90	27.56	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	7213.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.90
10-20	807.46
20-30	1243.63
30-40	1552.17
40-50	1563.66
50-60	1060.32
60-70	500.87
70-80	176.76
80-90	27.56
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

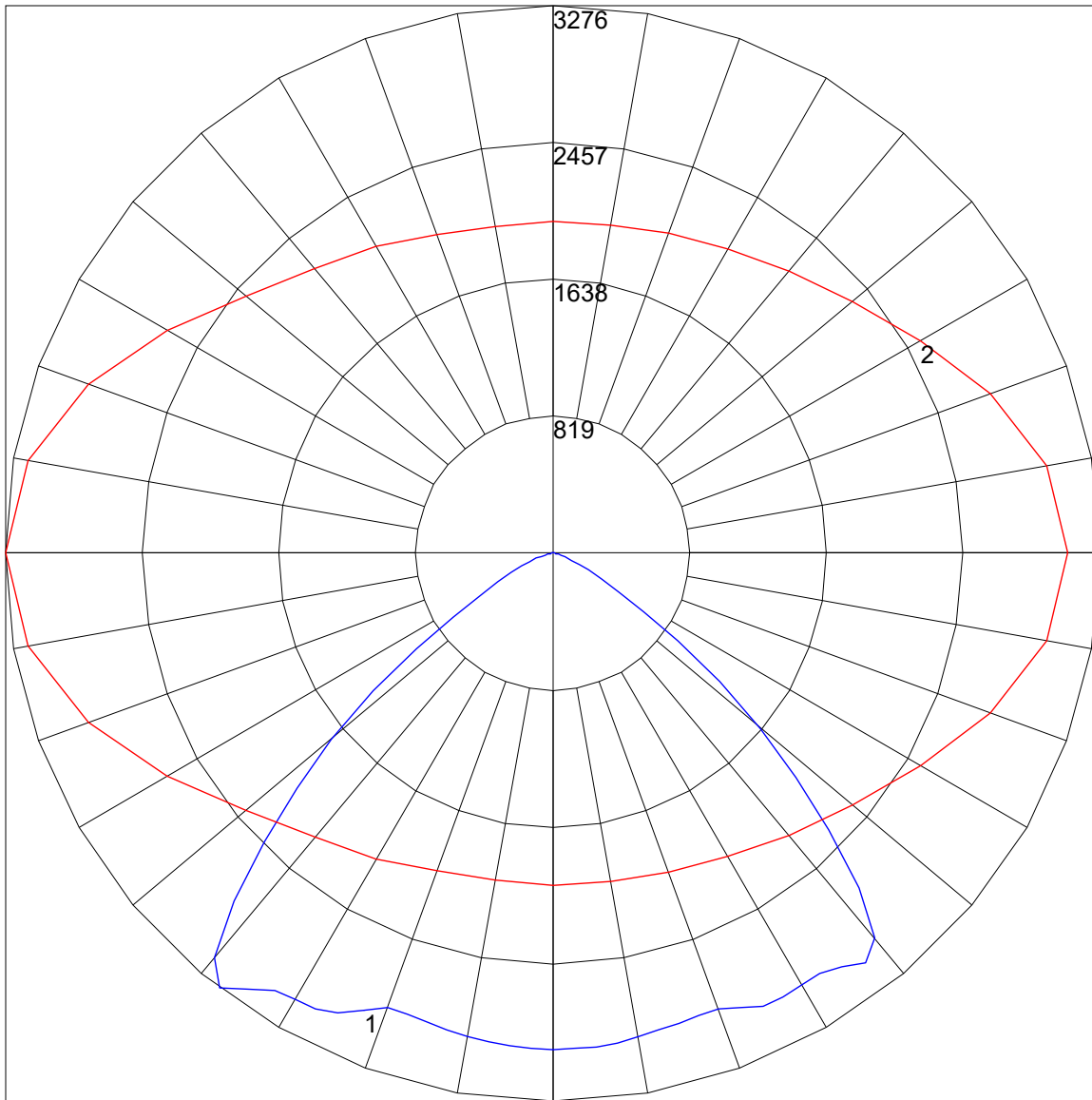
Room Size UGR Viewed Crosswise

UGR Viewed Endwise

X=2H	Y=2H	19.1	20.5	19.4	20.9	21.2	18.8	20.3	19.2	20.6	20.9
	3H	19.2	20.5	19.6	20.9	21.2	19.5	20.8	19.8	21.1	21.5
	4H	19.2	20.4	19.6	20.8	21.1	19.6	20.9	20.0	21.2	21.6
	6H	19.1	20.3	19.5	20.6	21.0	19.6	20.8	20.0	21.1	21.5
	8H	19.1	20.2	19.5	20.6	21.0	19.6	20.7	20.0	21.1	21.5
	12H	19.0	20.1	19.5	20.5	20.9	19.6	20.6	20.0	21.0	21.4
4H	2H	19.5	20.7	19.9	21.1	21.5	19.3	20.5	19.7	20.9	21.2
	3H	19.7	20.7	20.1	21.1	21.5	20.1	21.1	20.5	21.5	21.9
	4H	19.7	20.6	20.1	21.0	21.5	20.3	21.2	20.7	21.6	22.0
	6H	19.7	20.4	20.1	20.9	21.4	20.3	21.1	20.8	21.6	22.0
	8H	19.6	20.4	20.1	20.8	21.3	20.3	21.0	20.8	21.5	22.0
	12H	19.6	20.2	20.1	20.7	21.2	20.3	20.9	20.8	21.4	21.9
8H	4H	19.7	20.5	20.2	20.9	21.4	20.3	21.0	20.7	21.4	21.9
	6H	19.7	20.3	20.2	20.8	21.3	20.3	21.0	20.8	21.4	21.9
	8H	19.6	20.2	20.1	20.7	21.2	20.3	20.9	20.8	21.4	21.9
	12H	19.6	20.1	20.1	20.6	21.1	20.3	20.8	20.8	21.3	21.9
12H	4H	19.7	20.4	20.2	20.9	21.3	20.2	20.9	20.7	21.4	21.8
	6H	19.7	20.2	20.2	20.7	21.2	20.3	20.9	20.8	21.3	21.9
	8H	19.6	20.1	20.1	20.6	21.2	20.3	20.8	20.8	21.3	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 3276.184 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 (37.5) (Through Max. Cd.)