

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LED4HTHOWT30120-277V_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] BX910LED4HTHOWT30120-277V_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	6901
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
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	17992	18234	22809
55	7139	12974	17718
65	1927	6155	11968
75	467	2163	6719
85	40	265	2063

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454
2.5	2839.899	2837.441	2838.429	2839.518	2833.985	2834.693	2851.572	2851.490	2845.114	2846.520
5.0	2837.676	2826.384	2826.085	2829.042	2822.112	2824.108	2840.379	2840.098	2835.500	2833.622
7.5	2826.947	2815.337	2816.289	2818.638	2811.092	2809.169	2820.489	2817.741	2814.593	2805.868
10.0	2811.101	2804.117	2803.464	2799.093	2789.669	2784.744	2797.905	2793.233	2790.349	2786.358
12.5	2797.596	2788.200	2786.050	2775.084	2763.484	2757.534	2769.252	2765.797	2750.024	2745.961
15.0	2786.204	2774.468	2769.724	2753.235	2737.326	2722.633	2729.535	2731.521	2709.771	2699.277
17.5	2773.388	2760.990	2746.169	2724.555	2703.667	2685.309	2672.657	2677.609	2657.365	2647.080
20.0	2774.749	2756.781	2722.542	2687.822	2664.820	2630.889	2613.566	2607.752	2591.843	2577.758
22.5	2818.512	2787.710	2725.018	2659.741	2610.772	2565.749	2541.042	2531.065	2513.977	2497.488
25.0	2860.451	2824.471	2746.686	2650.318	2553.305	2486.495	2456.301	2441.481	2418.488	2407.922
27.5	2863.381	2828.407	2736.156	2628.976	2520.925	2411.749	2361.184	2345.166	2322.509	2313.712
30.0	2852.016	2806.829	2695.531	2574.619	2474.804	2351.615	2264.634	2241.542	2222.903	2206.749
32.5	2848.678	2791.501	2653.701	2504.427	2401.337	2289.595	2187.484	2140.202	2115.278	2104.022
35.0	2892.142	2822.638	2642.082	2450.242	2323.172	2203.593	2108.294	2038.029	2014.991	2000.461
37.5	2951.060	2875.598	2670.897	2433.018	2244.535	2105.356	2005.259	1946.549	1904.727	1898.931
40.0	2874.510	2822.557	2685.355	2445.272	2186.695	2007.617	1894.687	1839.577	1787.797	1784.314
42.5	2593.993	2578.909	2550.947	2418.996	2168.066	1919.040	1775.072	1709.731	1658.577	1651.221
45.0	2241.877	2238.821	2272.117	2274.765	2141.055	1843.541	1647.983	1572.892	1526.517	1514.790
47.5	1895.331	1900.120	1953.578	2027.762	2029.812	1778.264	1525.338	1441.286	1396.880	1383.973
50.0	1559.469	1576.556	1648.064	1743.925	1850.452	1677.025	1415.845	1307.205	1262.934	1248.014
52.5	1210.591	1244.540	1352.763	1461.476	1622.578	1528.413	1310.162	1174.384	1128.535	1109.769
55.0	876.035	915.979	1060.510	1201.104	1369.688	1353.253	1184.143	1045.191	999.151	979.760
57.5	621.476	649.203	783.412	962.390	1128.435	1160.343	1041.091	919.471	872.906	853.487
60.0	440.530	461.781	559.664	737.636	917.748	957.810	896.787	801.661	748.973	730.280
62.5	312.588	329.540	399.942	541.951	735.341	774.587	750.143	681.901	631.045	615.372
65.0	225.680	238.396	289.106	391.307	578.693	620.651	614.356	563.710	523.294	508.673
67.5	162.126	172.339	209.490	281.986	439.296	488.955	490.197	455.913	425.193	411.841
70.0	113.783	122.436	150.771	203.177	321.250	380.550	383.407	361.712	338.275	327.327
72.5	77.431	84.297	106.083	145.084	230.759	289.669	292.299	279.891	262.087	253.760
75.0	50.348	55.554	72.841	101.294	162.471	213.725	216.283	210.859	196.647	190.942
77.5	29.904	33.096	45.794	67.463	110.935	152.394	154.371	152.684	141.546	137.828
80.0	15.990	17.142	23.700	38.439	71.326	101.285	103.044	103.253	95.743	93.285
82.5	8.553	8.743	10.648	16.045	38.602	59.245	61.377	62.538	57.948	56.388
85.0	3.837	3.991	4.617	5.832	13.687	25.514	28.453	30.956	28.879	27.790
87.5	0.952	1.025	1.215	1.587	3.664	5.642	6.902	9.215	9.324	8.635
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	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454
2.5	2845.468	2851.155	2848.987	2826.067	2820.190	2831.010	2828.661	2829.187	2837.858	2829.187
5.0	2827.790	2837.196	2837.513	2811.555	2806.975	2823.019	2817.759	2818.557	2830.729	2818.557
7.5	2807.274	2814.512	2816.988	2791.410	2791.936	2815.101	2810.086	2811.636	2822.648	2811.636
10.0	2785.061	2787.275	2786.476	2768.119	2771.311	2795.682	2793.487	2798.195	2805.768	2798.195
12.5	2747.085	2755.929	2758.867	2741.843	2744.455	2773.017	2778.232	2787.275	2792.326	2787.275
15.0	2702.651	2711.921	2721.209	2709.282	2717.182	2754.650	2764.019	2774.622	2779.647	2774.622
17.5	2646.535	2658.834	2666.716	2665.718	2684.702	2733.417	2746.777	2762.096	2768.445	2762.096
20.0	2579.789	2599.671	2606.854	2611.307	2639.651	2697.872	2729.743	2759.284	2770.930	2759.284
22.5	2501.152	2522.648	2529.251	2541.976	2578.828	2664.902	2740.736	2800.417	2830.375	2800.417
25.0	2411.541	2426.724	2447.830	2457.698	2532.988	2666.235	2782.286	2872.823	2905.293	2872.823
27.5	2312.415	2332.169	2349.883	2384.739	2518.721	2670.144	2797.261	2903.661	2942.036	2903.661
30.0	2208.726	2230.113	2255.936	2337.176	2477.661	2637.456	2780.399	2901.067	2950.870	2901.067
32.5	2109.138	2125.908	2180.192	2288.279	2415.441	2590.456	2758.015	2912.976	2969.046	2912.976
35.0	2009.177	2032.877	2109.183	2211.012	2347.470	2552.670	2766.867	2968.257	3049.425	2968.257
37.5	1899.847	1937.542	2024.197	2122.035	2290.792	2551.373	2832.008	3054.749	3134.492	3054.749
40.0	1781.756	1833.428	1918.124	2030.292	2260.616	2580.016	2843.082	2987.459	3018.777	2987.459
42.5	1654.459	1710.566	1800.740	1951.637	2242.739	2555.246	2671.115	2713.490	2705.064	2713.490
45.0	1525.783	1577.073	1676.689	1882.687	2192.582	2384.603	2359.452	2355.969	2335.679	2355.969
47.5	1393.687	1443.273	1557.373	1802.708	2055.008	2109.600	2025.177	2007.445	1989.713	2007.445
50.0	1258.590	1312.211	1447.164	1692.081	1819.279	1809.048	1717.060	1681.406	1656.264	1681.406
52.5	1126.530	1179.472	1335.041	1551.741	1550.399	1524.313	1422.593	1344.292	1296.720	1344.292
55.0	996.983	1052.338	1206.120	1366.740	1291.441	1266.154	1116.798	1005.863	955.071	1005.863
57.5	870.384	929.358	1064.011	1149.994	1065.507	1018.108	829.878	721.319	675.434	721.319
60.0	746.334	808.618	930.627	940.532	865.432	776.709	598.293	514.187	484.782	514.187
62.5	629.231	687.996	790.650	757.554	688.495	570.349	429.564	375.425	356.696	375.425
65.0	522.858	569.723	645.331	606.629	526.459	414.572	315.418	277.778	264.572	277.778
67.5	424.939	462.044	510.015	480.656	389.439	301.051	234.296	204.846	195.513	204.846
70.0	338.257	366.555	398.146	371.607	283.247	220.764	173.137	149.855	141.855	149.855
72.5	261.270	284.589	304.008	279.701	203.313	161.664	125.955	107.498	100.142	107.498
75.0	196.483	213.925	226.714	204.964	142.689	116.314	89.140	74.991	68.950	74.991
77.5	141.855	154.789	162.344	143.877	97.049	80.578	60.706	49.948	45.377	49.948
80.0	95.752	104.514	108.613	94.210	61.540	51.581	36.126	28.507	24.806	28.507

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CANDELA TABULATION - (Cont.)

82.5	58.075	63.445	65.703	53.939	32.053	25.650	16.843	13.396	12.045	13.396
85.0	28.788	31.391	31.627	22.267	10.340	9.288	6.766	6.140	5.578	6.140
87.5	9.360	9.587	8.299	4.979	2.394	2.694	2.159	1.986	1.624	1.986
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	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454
2.5	2828.661	2831.010	2820.190	2826.067	2848.987	2851.155	2845.468	2846.520	2845.114	2851.490
5.0	2817.759	2823.019	2806.975	2811.555	2837.513	2837.196	2827.790	2833.622	2835.500	2840.098
7.5	2810.086	2815.101	2791.936	2791.410	2816.988	2814.512	2807.274	2805.868	2814.593	2817.741
10.0	2793.487	2795.682	2771.311	2768.119	2786.476	2787.275	2785.061	2786.358	2790.349	2793.233
12.5	2778.232	2773.017	2744.455	2741.843	2758.867	2755.929	2747.085	2745.961	2750.024	2765.797
15.0	2764.019	2754.650	2717.182	2709.282	2721.209	2711.921	2702.651	2699.277	2709.771	2731.521
17.5	2746.777	2733.417	2684.702	2665.718	2666.716	2658.834	2646.535	2647.080	2657.365	2677.609
20.0	2729.743	2697.872	2639.651	2611.307	2606.854	2599.671	2579.789	2577.758	2591.843	2607.752
22.5	2740.736	2664.902	2578.828	2541.976	2529.251	2522.648	2501.152	2497.488	2513.977	2531.065
25.0	2782.286	2666.235	2532.988	2457.698	2447.830	2426.724	2411.541	2407.922	2418.488	2441.481
27.5	2797.261	2670.144	2518.721	2384.739	2349.883	2332.169	2312.415	2313.712	2322.509	2345.166

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CANDELA TABULATION - (Cont.)

30.0	2780.399	2637.456	2477.661	2337.176	2255.936	2230.113	2208.726	2206.749	2222.903	2241.542
32.5	2758.015	2590.456	2415.441	2288.279	2180.192	2125.908	2109.138	2104.022	2115.278	2140.202
35.0	2766.867	2552.670	2347.470	2211.012	2109.183	2032.877	2009.177	2000.461	2014.991	2038.029
37.5	2832.008	2551.373	2290.792	2122.035	2024.197	1937.542	1899.847	1898.931	1904.727	1946.549
40.0	2843.082	2580.016	2260.616	2030.292	1918.124	1833.428	1781.756	1784.314	1787.797	1839.577
42.5	2671.115	2555.246	2242.739	1951.637	1800.740	1710.566	1654.459	1651.221	1658.577	1709.731
45.0	2359.452	2384.603	2192.582	1882.687	1676.689	1577.073	1525.783	1514.790	1526.517	1572.892
47.5	2025.177	2109.600	2055.008	1802.708	1557.373	1443.273	1393.687	1383.973	1396.880	1441.286
50.0	1717.060	1809.048	1819.279	1692.081	1447.164	1312.211	1258.590	1248.014	1262.934	1307.205
52.5	1422.593	1524.313	1550.399	1551.741	1335.041	1179.472	1126.530	1109.769	1128.535	1174.384
55.0	1116.798	1266.154	1291.441	1366.740	1206.120	1052.338	996.983	979.760	999.151	1045.191
57.5	829.878	1018.108	1065.507	1149.994	1064.011	929.358	870.384	853.487	872.906	919.471
60.0	598.293	776.709	865.432	940.532	930.627	808.618	746.334	730.280	748.973	801.661
62.5	429.564	570.349	688.495	757.554	790.650	687.996	629.231	615.372	631.045	681.901
65.0	315.418	414.572	526.459	606.629	645.331	569.723	522.858	508.673	523.294	563.710
67.5	234.296	301.051	389.439	480.656	510.015	462.044	424.939	411.841	425.193	455.913
70.0	173.137	220.764	283.247	371.607	398.146	366.555	338.257	327.327	338.275	361.712
72.5	125.955	161.664	203.313	279.701	304.008	284.589	261.270	253.760	262.087	279.891
75.0	89.140	116.314	142.689	204.964	226.714	213.925	196.483	190.942	196.647	210.859
77.5	60.706	80.578	97.049	143.877	162.344	154.789	141.855	137.828	141.546	152.684
80.0	36.126	51.581	61.540	94.210	108.613	104.514	95.752	93.285	95.743	103.253
82.5	16.843	25.650	32.053	53.939	65.703	63.445	58.075	56.388	57.948	62.538
85.0	6.766	9.288	10.340	22.267	31.627	31.391	28.788	27.790	28.879	30.956
87.5	2.159	2.694	2.394	4.979	8.299	9.587	9.360	8.635	9.324	9.215
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
Angles

	300	310	320	330	340	350	360
0.0	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454	2839.454
2.5	2851.572	2834.693	2833.985	2839.518	2838.429	2837.441	2839.899
5.0	2840.379	2824.108	2822.112	2829.042	2826.085	2826.384	2837.676
7.5	2820.489	2809.169	2811.092	2818.638	2816.289	2815.337	2826.947
10.0	2797.905	2784.744	2789.669	2799.093	2803.464	2804.117	2811.101
12.5	2769.252	2757.534	2763.484	2775.084	2786.050	2788.200	2797.596
15.0	2729.535	2722.633	2737.326	2753.235	2769.724	2774.468	2786.204
17.5	2672.657	2685.309	2703.667	2724.555	2746.169	2760.990	2773.388
20.0	2613.566	2630.889	2664.820	2687.822	2722.542	2756.781	2774.749
22.5	2541.042	2565.749	2610.772	2659.741	2725.018	2787.710	2818.512
25.0	2456.301	2486.495	2553.305	2650.318	2746.686	2824.471	2860.451
27.5	2361.184	2411.749	2520.925	2628.976	2736.156	2828.407	2863.381
30.0	2264.634	2351.615	2474.804	2574.619	2695.531	2806.829	2852.016
32.5	2187.484	2289.595	2401.337	2504.427	2653.701	2791.501	2848.678
35.0	2108.294	2203.593	2323.172	2450.242	2642.082	2822.638	2892.142
37.5	2005.259	2105.356	2244.535	2433.018	2670.897	2875.598	2951.060
40.0	1894.687	2007.617	2186.695	2445.272	2685.355	2822.557	2874.510
42.5	1775.072	1919.040	2168.066	2418.996	2550.947	2578.909	2593.993
45.0	1647.983	1843.541	2141.055	2274.765	2272.117	2238.821	2241.877
47.5	1525.338	1778.264	2029.812	2027.762	1953.578	1900.120	1895.331
50.0	1415.845	1677.025	1850.452	1743.925	1648.064	1576.556	1559.469
52.5	1310.162	1528.413	1622.578	1461.476	1352.763	1244.540	1210.591
55.0	1184.143	1353.253	1369.688	1201.104	1060.510	915.979	876.035
57.5	1041.091	1160.343	1128.435	962.390	783.412	649.203	621.476
60.0	896.787	957.810	917.748	737.636	559.664	461.781	440.530
62.5	750.143	774.587	735.341	541.951	399.942	329.540	312.588
65.0	614.356	620.651	578.693	391.307	289.106	238.396	225.680
67.5	490.197	488.955	439.296	281.986	209.490	172.339	162.126
70.0	383.407	380.550	321.250	203.177	150.771	122.436	113.783
72.5	292.299	289.669	230.759	145.084	106.083	84.297	77.431
75.0	216.283	213.725	162.471	101.294	72.841	55.554	50.348
77.5	154.371	152.394	110.935	67.463	45.794	33.096	29.904
80.0	103.044	101.285	71.326	38.439	23.700	17.142	15.990
82.5	61.377	59.245	38.602	16.045	10.648	8.743	8.553
85.0	28.453	25.514	13.687	5.832	4.617	3.991	3.837
87.5	6.902	5.642	3.664	1.587	1.215	1.025	0.952
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	1041.29	N.A.	15.10
0-30	2231.14	N.A.	32.30
0-40	3716.17	N.A.	53.80
0-60	6226.67	N.A.	90.20
0-80	6875.00	N.A.	99.60
0-90	6901.36	N.A.	100.00
10-90	6632.61	N.A.	96.10
20-40	2674.88	N.A.	38.80
20-50	4170.92	N.A.	60.40
40-70	2989.71	N.A.	43.30
60-80	648.32	N.A.	9.40
70-80	169.11	N.A.	2.50
80-90	26.37	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	6901.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	268.75
10-20	772.54
20-30	1189.84
30-40	1485.04
40-50	1496.04
50-60	1014.46
60-70	479.21
70-80	169.11
80-90	26.37
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

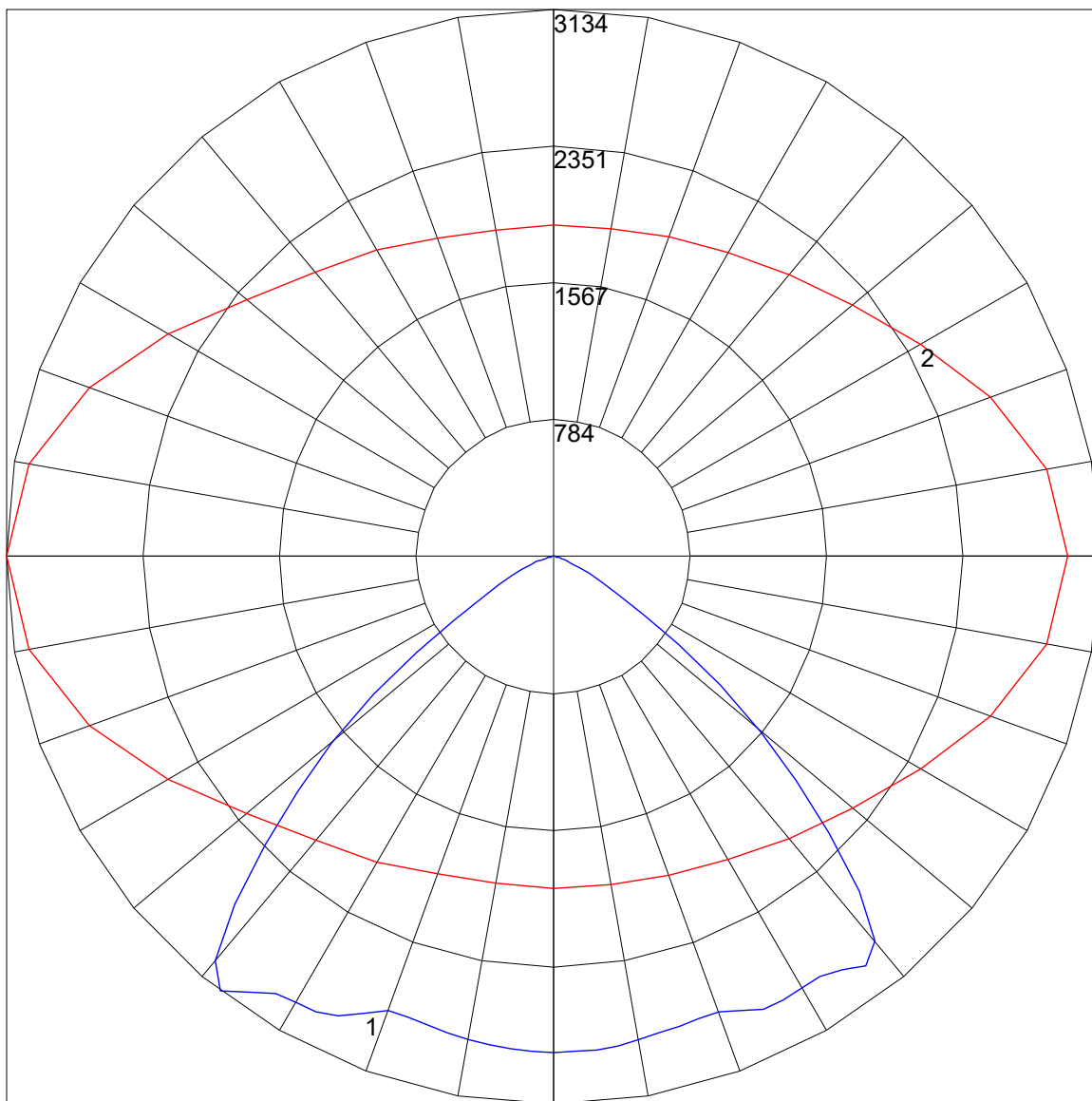
Reflectances

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	18.9	20.3	19.2	20.7	21.0	18.6	20.1	19.0	20.4	20.7
	3H	19.0	20.3	19.4	20.7	21.0	19.3	20.6	19.6	20.9	21.3
	4H	19.0	20.2	19.4	20.6	20.9	19.4	20.7	19.8	21.0	21.4
	6H	18.9	20.1	19.3	20.4	20.8	19.4	20.6	19.8	20.9	21.3
	8H	18.9	20.0	19.3	20.4	20.8	19.4	20.5	19.8	20.9	21.3
	12H	18.8	19.9	19.3	20.3	20.7	19.4	20.4	19.8	20.8	21.2
4H	2H	19.3	20.5	19.7	20.9	21.3	19.1	20.3	19.5	20.6	21.0
	3H	19.5	20.5	19.9	20.9	21.3	19.9	20.9	20.3	21.3	21.7
	4H	19.5	20.4	19.9	20.8	21.3	20.1	21.0	20.5	21.4	21.8
	6H	19.5	20.2	19.9	20.7	21.2	20.1	20.9	20.6	21.4	21.8
	8H	19.4	20.1	19.9	20.6	21.1	20.1	20.8	20.6	21.3	21.8
	12H	19.4	20.0	19.9	20.5	21.0	20.1	20.7	20.6	21.2	21.7
8H	4H	19.5	20.3	20.0	20.7	21.2	20.1	20.8	20.5	21.2	21.7
	6H	19.5	20.1	20.0	20.6	21.1	20.1	20.8	20.6	21.2	21.7
	8H	19.4	20.0	19.9	20.5	21.0	20.1	20.7	20.6	21.2	21.7
	12H	19.4	19.9	19.9	20.4	20.9	20.1	20.6	20.6	21.1	21.7
12H	4H	19.5	20.2	20.0	20.7	21.1	20.0	20.7	20.5	21.2	21.6
	6H	19.5	20.0	20.0	20.5	21.0	20.1	20.7	20.6	21.1	21.7
	8H	19.4	19.9	19.9	20.4	21.0	20.1	20.6	20.6	21.1	21.7

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 3134.492 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.)