

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX9604HTLO5K120-480V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4558
[TESTLAB] TUV SUD America
[ISSUEDATE] 6/24/2024 10:52:11 AM
[MANUFAC] BEGHELLI NORTH AMERICA
[LUMCAT] INDOOR LUMINAIRES / LOW-BAY LUMINAIRE
[LUMINAIRE] BX9604HTLO5K[120-480V] [CR; RW] [FP; REM; SP] [OS] [CC]
[AMBIENT] 24.3 deg C
[POWERFACTOR] 0.9983
[ATHD] 4.64%
[CURRENT] 0.44
[VOLTAGE] 120.23
[STABILIZATION] 30:15.2 Stable
[POWER VARIATION] 0.46%
[LIGHT VARIATION] 0.34%
[Lumens] 7340

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.42 ft
Luminous Width (90-270)	3.91 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16751	16828	17330
55	14811	14968	15401
65	12050	12359	12962
75	7199	8689	9600
85	3335	2961	4537

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395
2.5	2812.796	2809.561	2811.067	2812.899	2807.149	2808.804	2816.611	2816.096	2814.526	2812.273
5.0	2808.327	2801.306	2803.120	2804.541	2795.398	2798.099	2813.610	2816.723	2815.414	2806.906
7.5	2790.807	2783.889	2787.629	2789.068	2779.271	2781.458	2800.063	2805.083	2806.252	2796.781
10.0	2764.882	2759.610	2765.331	2766.584	2757.740	2760.844	2778.205	2784.656	2787.919	2779.028
12.5	2743.333	2736.219	2741.922	2740.959	2733.648	2735.994	2753.701	2759.170	2761.779	2757.843
15.0	2711.780	2706.797	2711.089	2710.976	2702.740	2706.040	2721.999	2729.085	2732.535	2729.356
17.5	2672.776	2668.653	2671.589	2671.832	2664.250	2670.467	2686.351	2693.241	2702.964	2694.728
20.0	2629.556	2629.079	2635.044	2630.369	2623.442	2631.454	2645.141	2648.843	2659.660	2656.303
22.5	2587.251	2588.813	2590.645	2588.102	2580.623	2582.829	2600.798	2602.556	2612.438	2613.653
25.0	2542.040	2538.151	2537.225	2537.590	2528.558	2525.987	2550.622	2555.194	2564.010	2560.897
27.5	2481.365	2480.720	2481.692	2481.299	2471.202	2469.155	2491.181	2499.362	2509.103	2504.260
30.0	2412.107	2413.491	2414.164	2416.511	2405.853	2407.695	2427.206	2436.274	2443.258	2440.697
32.5	2337.745	2337.474	2337.989	2334.819	2332.473	2335.044	2355.705	2364.082	2373.851	2367.943
35.0	2248.537	2241.367	2244.293	2240.955	2244.527	2249.472	2271.573	2286.223	2295.937	2287.130
37.5	2149.176	2137.228	2140.136	2138.359	2144.576	2150.419	2173.642	2193.593	2202.260	2194.865
40.0	2037.334	2024.788	2028.621	2025.330	2030.865	2042.065	2061.604	2084.257	2100.169	2089.128
42.5	1914.451	1903.017	1907.710	1909.299	1913.750	1926.006	1946.733	1967.609	1987.831	1973.630
45.0	1791.549	1782.995	1787.622	1790.922	1793.437	1806.105	1827.038	1843.155	1866.388	1853.533
47.5	1670.012	1661.056	1667.768	1667.207	1673.228	1683.633	1706.062	1718.122	1741.896	1729.238
50.0	1540.238	1534.377	1541.491	1539.444	1549.335	1562.209	1582.729	1592.415	1610.646	1600.773
52.5	1412.699	1409.399	1415.392	1413.316	1421.927	1435.857	1454.143	1462.651	1476.590	1470.083
55.0	1284.898	1285.665	1286.637	1287.544	1290.938	1306.111	1319.714	1330.110	1345.564	1336.150
57.5	1152.975	1154.732	1159.313	1160.033	1161.707	1175.721	1188.155	1201.057	1217.128	1205.899
60.0	1025.548	1023.874	1033.036	1030.839	1036.542	1047.256	1058.774	1073.480	1086.840	1079.351
62.5	897.439	895.036	902.506	901.085	910.780	920.493	935.882	946.717	960.666	954.823
65.0	770.264	765.730	773.162	772.966	782.053	797.965	811.736	821.917	834.090	828.546
67.5	631.478	634.171	645.174	648.503	655.449	676.503	689.526	698.595	713.001	705.606
70.0	502.929	504.575	522.001	530.200	540.045	560.229	575.057	584.509	595.774	589.006
72.5	387.095	386.815	402.129	416.554	432.896	451.547	467.272	474.667	485.363	478.005
75.0	281.807	280.218	294.550	308.031	328.860	351.476	365.406	372.277	382.468	375.811
77.5	184.353	186.101	198.189	209.689	230.415	257.051	269.812	278.525	286.930	280.722
80.0	123.893	122.715	126.333	127.866	142.086	169.553	187.195	193.029	200.583	194.805
82.5	81.131	79.429	80.560	76.998	75.615	91.471	112.955	119.433	126.249	120.340
85.0	43.959	41.687	42.996	39.602	37.770	40.285	48.016	58.356	64.368	59.806
87.5	12.574	12.322	12.789	11.209	10.312	12.995	14.556	15.454	21.372	18.670
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	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395
2.5	2818.172	2819.686	2815.760	2806.617	2805.560	2811.263	2810.833	2810.104	2816.171	2810.104
5.0	2816.087	2816.283	2812.544	2800.222	2800.287	2809.001	2805.495	2804.223	2811.412	2804.223
7.5	2803.129	2805.009	2800.521	2788.143	2791.247	2800.100	2793.275	2790.041	2795.631	2790.041
10.0	2784.515	2788.292	2784.487	2771.408	2772.595	2781.178	2772.783	2769.576	2775.036	2769.576
12.5	2760.732	2763.489	2760.629	2749.251	2750.569	2755.730	2745.175	2741.426	2746.923	2741.426
15.0	2732.292	2735.069	2730.777	2718.642	2718.904	2718.512	2707.395	2706.077	2710.322	2706.077
17.5	2698.608	2703.151	2697.607	2682.350	2677.974	2676.806	2667.055	2664.035	2668.766	2664.035
20.0	2658.575	2668.158	2656.827	2638.316	2634.670	2635.240	2623.946	2619.982	2622.731	2619.982
22.5	2614.766	2622.666	2607.184	2588.673	2585.578	2588.598	2576.276	2576.818	2575.378	2576.818
25.0	2563.991	2570.227	2553.819	2534.851	2533.551	2535.589	2524.370	2523.725	2517.265	2523.725
27.5	2506.972	2508.785	2494.201	2477.223	2475.952	2475.737	2463.807	2457.675	2457.712	2457.675
30.0	2442.080	2442.351	2427.636	2413.061	2411.350	2407.835	2390.839	2383.481	2385.668	2383.481
32.5	2370.504	2372.103	2356.341	2343.673	2338.400	2328.574	2306.838	2297.872	2297.367	2297.872
35.0	2291.253	2290.842	2273.079	2256.372	2248.266	2231.746	2209.477	2198.137	2198.455	2198.137
37.5	2196.940	2195.790	2175.924	2153.748	2146.231	2123.962	2096.756	2081.461	2084.930	2081.461
40.0	2089.081	2090.118	2065.503	2040.747	2035.577	2010.465	1978.491	1964.533	1962.981	1964.533
42.5	1975.350	1972.536	1943.966	1924.323	1915.133	1887.189	1856.749	1844.950	1837.882	1844.950
45.0	1854.253	1848.409	1819.932	1804.862	1792.530	1761.492	1729.817	1719.160	1712.195	1719.160
47.5	1727.246	1724.965	1696.703	1681.661	1669.030	1634.224	1600.409	1593.481	1588.853	1593.481
50.0	1597.482	1594.304	1569.557	1553.813	1538.602	1508.751	1474.758	1463.577	1460.005	1463.577
52.5	1464.633	1461.539	1442.055	1424.591	1414.251	1380.660	1350.631	1338.272	1333.532	1338.272
55.0	1332.532	1328.409	1314.741	1299.118	1283.823	1253.074	1223.260	1212.977	1207.779	1212.977
57.5	1203.403	1199.149	1180.928	1168.896	1156.658	1127.059	1097.040	1087.550	1078.968	1087.550
60.0	1073.789	1071.844	1048.677	1039.029	1026.988	997.922	968.388	956.627	952.514	956.627
62.5	945.315	941.958	921.101	910.471	896.307	869.737	837.072	827.013	819.374	827.013
65.0	818.533	819.804	801.602	786.578	773.798	742.357	709.346	695.425	683.431	695.425
67.5	694.780	696.500	681.645	665.041	649.746	618.904	586.407	563.670	551.769	563.670
70.0	578.535	579.769	565.998	550.310	535.557	503.191	465.879	441.441	433.476	441.441
72.5	470.124	470.114	456.371	443.180	425.791	391.574	351.952	332.076	321.877	332.076
75.0	367.023	366.817	355.122	344.501	324.186	286.276	248.768	230.481	215.336	230.481
77.5	272.785	273.290	261.108	251.479	227.227	189.981	157.325	147.752	141.104	147.752
80.0	187.719	188.167	177.799	162.962	138.477	111.982	99.436	96.902	93.499	96.902

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CANDELA TABULATION - (Cont.)

82.5	114.525	115.974	104.120	85.796	73.249	65.630	59.226	57.478	54.103	57.478
85.0	54.804	55.851	41.921	37.555	35.638	31.310	24.363	22.316	16.566	22.316
87.5	15.949	14.276	12.359	10.536	9.396	7.180	4.768	4.179	2.496	4.179
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	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395
2.5	2810.833	2811.263	2805.560	2806.617	2815.760	2819.686	2818.172	2812.273	2814.526	2816.096
5.0	2805.495	2809.001	2800.287	2800.222	2812.544	2816.283	2816.087	2806.906	2815.414	2816.723
7.5	2793.275	2800.100	2791.247	2788.143	2800.521	2805.009	2803.129	2796.781	2806.252	2805.083
10.0	2772.783	2781.178	2772.595	2771.408	2784.487	2788.292	2784.515	2779.028	2787.919	2784.656
12.5	2745.175	2755.730	2750.569	2749.251	2760.629	2763.489	2760.732	2757.843	2761.779	2759.170
15.0	2707.395	2718.512	2718.904	2718.642	2730.777	2735.069	2732.292	2729.356	2732.535	2729.085
17.5	2667.055	2676.806	2677.974	2682.350	2697.607	2703.151	2698.608	2694.728	2702.964	2693.241
20.0	2623.946	2635.240	2634.670	2638.316	2656.827	2668.158	2658.575	2656.303	2659.660	2648.843
22.5	2576.276	2588.598	2585.578	2588.673	2607.184	2622.666	2614.766	2613.653	2612.438	2602.556
25.0	2524.370	2535.589	2533.551	2534.851	2553.819	2570.227	2563.991	2560.897	2564.010	2555.194
27.5	2463.807	2475.737	2475.952	2477.223	2494.201	2508.785	2506.972	2504.260	2509.103	2499.362

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CANDELA TABULATION - (Cont.)

30.0	2390.839	2407.835	2411.350	2413.061	2427.636	2442.351	2442.080	2440.697	2443.258	2436.274
32.5	2306.838	2328.574	2338.400	2343.673	2356.341	2372.103	2370.504	2367.943	2373.851	2364.082
35.0	2209.477	2231.746	2248.266	2256.372	2273.079	2290.842	2291.253	2287.130	2295.937	2286.223
37.5	2096.756	2123.962	2146.231	2153.748	2175.924	2195.790	2196.940	2194.865	2202.260	2193.593
40.0	1978.491	2010.465	2035.577	2040.747	2065.503	2090.118	2089.081	2089.128	2100.169	2084.257
42.5	1856.749	1887.189	1915.133	1924.323	1943.966	1972.536	1975.350	1973.630	1987.831	1967.609
45.0	1729.817	1761.492	1792.530	1804.862	1819.932	1848.409	1854.253	1853.533	1866.388	1843.155
47.5	1600.409	1634.224	1669.030	1681.661	1696.703	1724.965	1727.246	1729.238	1741.896	1718.122
50.0	1474.758	1508.751	1538.602	1553.813	1569.557	1594.304	1597.482	1600.773	1610.646	1592.415
52.5	1350.631	1380.660	1414.251	1424.591	1442.055	1461.539	1464.633	1470.083	1476.590	1462.651
55.0	1223.260	1253.074	1283.823	1299.118	1314.741	1328.409	1332.532	1336.150	1345.564	1330.110
57.5	1097.040	1127.059	1156.658	1168.896	1180.928	1199.149	1203.403	1205.899	1217.128	1201.057
60.0	968.388	997.922	1026.988	1039.029	1048.677	1071.844	1073.789	1079.351	1086.840	1073.480
62.5	837.072	869.737	896.307	910.471	921.101	941.958	945.315	954.823	960.666	946.717
65.0	709.346	742.357	773.798	786.578	801.602	819.804	818.533	828.546	834.090	821.917
67.5	586.407	618.904	649.746	665.041	681.645	696.500	694.780	705.606	713.001	698.595
70.0	465.879	503.191	533.557	550.310	565.998	579.769	578.535	589.006	595.774	584.509
72.5	351.952	391.574	425.791	443.180	456.371	470.114	470.124	478.005	485.363	474.667
75.0	248.768	286.276	324.186	344.501	355.122	366.817	367.023	375.811	382.468	372.277
77.5	157.325	189.981	227.227	251.479	261.108	273.290	272.785	280.722	286.930	278.525
80.0	99.436	111.982	138.477	162.962	177.799	188.167	187.719	194.805	200.583	193.029
82.5	59.226	65.630	73.249	85.796	104.120	115.974	114.525	120.340	126.249	119.433
85.0	24.363	31.310	35.638	37.555	41.921	55.851	54.804	59.806	64.368	58.356
87.5	4.768	7.180	9.396	10.536	12.359	14.276	15.949	18.670	21.372	15.454
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	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395	2814.395
2.5	2816.611	2808.804	2807.149	2812.899	2811.067	2809.561	2812.796
5.0	2813.610	2798.099	2795.398	2804.541	2803.120	2801.306	2808.327
7.5	2800.063	2781.458	2779.271	2789.068	2787.629	2783.889	2790.807
10.0	2778.205	2760.844	2757.740	2766.584	2765.331	2759.610	2764.882
12.5	2753.701	2735.994	2733.648	2740.959	2741.922	2736.219	2743.333
15.0	2721.999	2706.040	2702.740	2710.976	2711.089	2706.797	2711.780
17.5	2686.351	2670.467	2664.250	2671.832	2671.589	2668.653	2672.776
20.0	2645.141	2631.454	2623.442	2630.369	2635.044	2629.079	2629.556
22.5	2600.798	2582.829	2580.623	2588.102	2590.645	2588.813	2587.251
25.0	2550.622	2525.987	2528.558	2537.590	2537.225	2538.151	2542.040
27.5	2491.181	2469.155	2471.202	2481.299	2481.692	2480.720	2481.365
30.0	2427.206	2407.695	2405.853	2416.511	2414.164	2413.491	2412.107
32.5	2355.705	2335.044	2332.473	2334.819	2337.989	2337.474	2337.745
35.0	2271.573	2249.472	2244.527	2240.955	2244.293	2241.367	2248.537
37.5	2173.642	2150.419	2144.576	2138.359	2140.136	2137.228	2149.176
40.0	2061.604	2042.065	2030.865	2025.330	2028.621	2024.788	2037.334
42.5	1946.733	1926.006	1913.750	1909.299	1907.710	1903.017	1914.451
45.0	1827.038	1806.105	1793.437	1790.922	1787.622	1782.995	1791.549
47.5	1706.062	1683.633	1673.228	1667.207	1667.768	1661.056	1670.012
50.0	1582.729	1562.209	1549.335	1539.444	1541.491	1534.377	1540.238
52.5	1454.143	1435.857	1421.927	1413.316	1415.392	1409.399	1412.699
55.0	1319.714	1306.111	1290.938	1287.544	1286.637	1285.665	1284.898
57.5	1188.155	1175.721	1161.707	1160.033	1159.313	1154.732	1152.975
60.0	1058.774	1047.256	1036.542	1030.839	1033.036	1023.874	1025.548
62.5	935.882	920.493	910.780	901.085	902.506	895.036	897.439
65.0	811.736	797.965	782.053	772.966	773.162	765.730	770.264
67.5	689.526	676.503	655.449	648.503	645.174	634.171	631.478
70.0	575.057	560.229	540.045	530.200	522.001	504.575	502.929
72.5	467.272	451.547	432.896	416.554	402.129	386.815	387.095
75.0	365.406	351.476	328.860	308.031	294.550	280.218	281.807
77.5	269.812	257.051	230.415	209.689	198.189	186.101	184.353
80.0	187.195	169.553	142.086	127.866	126.333	122.715	123.893
82.5	112.955	91.471	75.615	76.998	80.560	79.429	81.131
85.0	48.016	40.285	37.770	39.602	42.996	41.687	43.959
87.5	14.556	12.995	10.312	11.209	12.789	12.322	12.574
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	1034.29	N.A.	14.10
0-30	2205.87	N.A.	30.10
0-40	3611.75	N.A.	49.20
0-60	6156.69	N.A.	83.90
0-80	7280.07	N.A.	99.20
0-90	7340.14	N.A.	100.00
10-90	7073.25	N.A.	96.40
20-40	2577.46	N.A.	35.10
20-50	3966.37	N.A.	54.00
40-70	3319.03	N.A.	45.20
60-80	1123.38	N.A.	15.30
70-80	349.29	N.A.	4.80
80-90	60.07	N.A.	0.80
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	7340.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	266.89
10-20	767.40
20-30	1171.59
30-40	1405.88
40-50	1388.9
50-60	1156.04
60-70	774.09
70-80	349.29
80-90	60.07
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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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

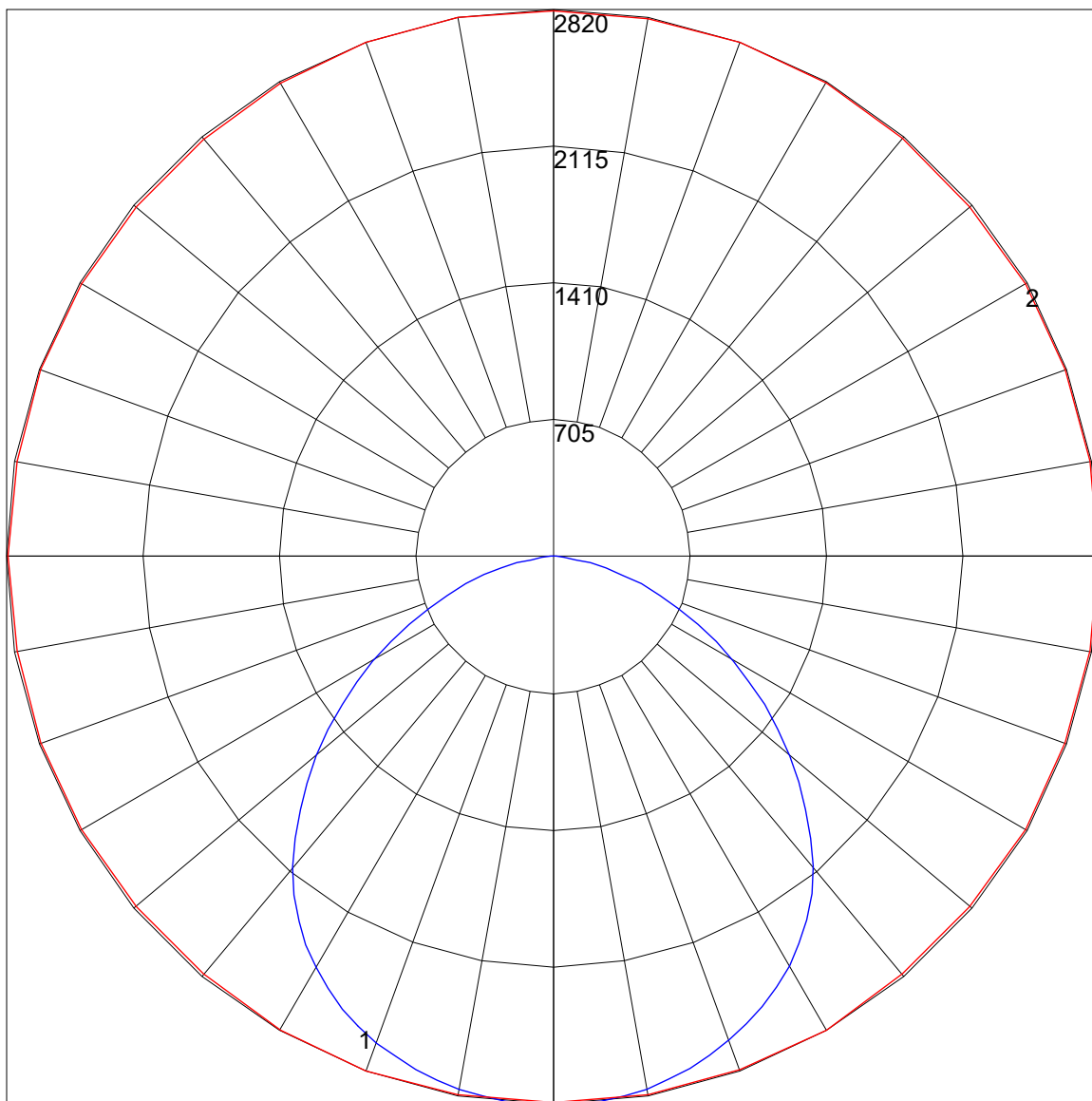
X=2H	Y=2H	21.3	22.9	21.6	23.2	23.5	21.5	23.1	21.9	23.4	23.7
	3H	22.5	24.0	22.9	24.3	24.6	23.0	24.4	23.4	24.7	25.1
	4H	22.8	24.2	23.2	24.5	24.9	23.5	24.8	23.9	25.1	25.5
	6H	23.0	24.2	23.4	24.6	24.9	23.7	25.0	24.1	25.3	25.7
	8H	23.0	24.2	23.4	24.5	24.9	23.8	25.0	24.2	25.4	25.8
	12H	23.0	24.1	23.4	24.5	24.9	23.8	24.9	24.3	25.3	25.8

UGR Viewed Endwise

4H	2H	21.8	23.1	22.2	23.5	23.9	22.0	23.3	22.4	23.7	24.1
	3H	23.2	24.4	23.7	24.8	25.2	23.6	24.8	24.1	25.2	25.6
	4H	23.6	24.6	24.1	25.0	25.5	24.2	25.2	24.7	25.6	26.1
	6H	23.8	24.7	24.3	25.1	25.6	24.6	25.5	25.1	25.9	26.4
	8H	23.8	24.7	24.3	25.1	25.6	24.7	25.5	25.2	26.0	26.4
	12H	23.9	24.6	24.3	25.1	25.5	24.7	25.5	25.2	25.9	26.4
8H	4H	23.8	24.6	24.3	25.1	25.6	24.4	25.2	24.8	25.6	26.1
	6H	24.1	24.7	24.6	25.2	25.7	24.8	25.5	25.3	26.0	26.5
	8H	24.1	24.7	24.6	25.2	25.7	25.0	25.6	25.5	26.1	26.5
	12H	24.1	24.7	24.6	25.2	25.7	25.0	25.6	25.5	26.0	26.6
12H	4H	23.8	24.6	24.3	25.0	25.5	24.4	25.1	24.8	25.6	26.0
	6H	24.1	24.7	24.6	25.1	25.7	24.8	25.4	25.3	25.9	26.4
	8H	24.1	24.7	24.6	25.2	25.7	25.0	25.5	25.5	26.0	26.5

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 2819.686 Located At Horizontal Angle = 110, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (110 - 290) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)