

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX9604HTLO35K120-480V_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] BX9604HTLO35K[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] 6990

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	15952	16025	16504
55	14104	14254	14667
65	11475	11769	12343
75	6855	8275	9142
85	3176	2819	4320

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132
2.5	2678.610	2675.529	2676.963	2678.708	2673.233	2674.808	2682.242	2681.753	2680.257	2678.111
5.0	2674.354	2667.668	2669.395	2670.749	2662.041	2664.614	2679.385	2682.349	2681.103	2673.001
7.5	2657.670	2651.082	2654.643	2656.014	2646.684	2648.767	2666.484	2671.265	2672.378	2663.359
10.0	2632.982	2627.961	2633.409	2634.602	2626.180	2629.136	2645.669	2651.812	2654.919	2646.452
12.5	2612.461	2605.685	2611.116	2610.199	2603.237	2605.472	2622.334	2627.542	2630.026	2626.278
15.0	2582.413	2577.668	2581.754	2581.647	2573.804	2576.947	2592.144	2598.893	2602.178	2599.151
17.5	2545.270	2541.343	2544.139	2544.370	2537.150	2543.071	2558.197	2564.758	2574.017	2566.174
20.0	2504.111	2503.657	2509.337	2504.886	2498.289	2505.918	2518.953	2522.478	2532.779	2529.583
22.5	2463.825	2465.312	2467.057	2464.635	2457.513	2459.614	2476.725	2478.399	2487.810	2488.967
25.0	2420.770	2417.066	2416.185	2416.532	2407.932	2405.484	2428.943	2433.297	2441.692	2438.727
27.5	2362.990	2362.375	2363.301	2362.927	2353.312	2351.362	2372.338	2380.128	2389.405	2384.793
30.0	2297.036	2298.354	2298.995	2301.230	2291.080	2292.834	2311.415	2320.050	2326.701	2324.262
32.5	2226.222	2225.964	2226.453	2223.435	2221.200	2223.649	2243.324	2251.302	2260.605	2254.979
35.0	2141.269	2134.441	2137.227	2134.049	2137.450	2142.160	2163.206	2177.157	2186.408	2178.021
37.5	2046.648	2035.270	2038.039	2036.348	2042.268	2047.832	2069.947	2088.947	2097.200	2090.157
40.0	1940.142	1928.194	1931.844	1928.710	1933.981	1944.647	1963.254	1984.826	1999.979	1989.464
42.5	1823.121	1812.232	1816.702	1818.215	1822.453	1834.125	1853.863	1873.743	1893.000	1879.477
45.0	1706.082	1697.936	1702.343	1705.485	1707.880	1719.944	1739.878	1755.226	1777.350	1765.109
47.5	1590.343	1581.814	1588.206	1587.672	1593.405	1603.315	1624.673	1636.158	1658.798	1646.743
50.0	1466.760	1461.178	1467.953	1466.004	1475.423	1487.682	1507.224	1516.448	1533.809	1524.407
52.5	1345.306	1342.163	1347.870	1345.893	1354.093	1367.358	1384.773	1392.874	1406.149	1399.952
55.0	1223.602	1224.332	1225.258	1226.121	1229.353	1243.803	1256.756	1266.656	1281.373	1272.408
57.5	1097.971	1099.645	1104.008	1104.693	1106.287	1119.632	1131.473	1143.759	1159.064	1148.371
60.0	976.623	975.030	983.755	981.663	987.093	997.296	1008.265	1022.269	1034.992	1027.860
62.5	854.626	852.338	859.451	858.098	867.330	876.580	891.235	901.553	914.837	909.272
65.0	733.518	729.200	736.278	736.091	744.745	759.898	773.012	782.707	794.299	789.019
67.5	601.353	603.917	614.396	617.565	624.180	644.230	656.632	665.268	678.987	671.945
70.0	478.937	480.504	497.099	504.907	514.282	533.503	547.623	556.624	567.353	560.907
72.5	368.629	368.362	382.945	396.682	412.245	430.006	444.981	452.023	462.208	455.201
75.0	268.363	266.850	280.498	293.336	313.172	334.708	347.974	354.517	364.222	357.883
77.5	175.558	177.223	188.735	199.685	219.423	244.788	256.941	265.238	273.242	267.330
80.0	117.983	116.861	120.306	121.766	135.308	161.465	178.265	183.820	191.014	185.512
82.5	77.260	75.640	76.717	73.325	72.007	87.107	107.566	113.736	120.226	114.599
85.0	41.862	39.698	40.945	37.713	35.968	38.363	45.726	55.573	61.297	56.952
87.5	11.975	11.734	12.179	10.675	9.820	12.375	13.862	14.717	20.352	17.779
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	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132
2.5	2683.729	2685.171	2681.432	2672.725	2671.719	2677.150	2676.740	2676.046	2681.824	2676.046
5.0	2681.744	2681.931	2678.369	2666.635	2666.698	2674.995	2671.657	2670.446	2677.292	2670.446
7.5	2669.404	2671.194	2666.920	2655.133	2658.089	2666.520	2660.020	2656.940	2662.264	2656.940
10.0	2651.678	2655.275	2651.652	2639.196	2640.327	2648.500	2640.505	2637.451	2642.651	2637.451
12.5	2629.029	2631.655	2628.931	2618.096	2619.352	2624.266	2614.215	2610.644	2615.879	2610.644
15.0	2601.946	2604.590	2600.504	2588.948	2589.197	2588.823	2578.237	2576.982	2581.024	2576.982
17.5	2569.869	2574.195	2568.916	2554.386	2550.220	2549.107	2539.821	2536.945	2541.450	2536.945
20.0	2531.746	2540.872	2530.081	2512.453	2508.981	2509.524	2498.769	2494.994	2497.612	2494.994
22.5	2490.027	2497.550	2482.806	2465.178	2462.232	2465.107	2453.373	2453.889	2452.518	2453.889
25.0	2441.674	2447.613	2431.988	2413.924	2412.686	2414.627	2403.943	2403.329	2397.177	2403.329
27.5	2387.375	2389.102	2375.213	2359.046	2357.835	2357.630	2346.270	2340.430	2340.465	2340.430
30.0	2325.579	2325.837	2311.824	2297.944	2296.315	2292.968	2276.782	2269.775	2271.859	2269.775
32.5	2257.418	2258.940	2243.930	2231.866	2226.845	2217.488	2196.788	2188.250	2187.770	2188.250
35.0	2181.947	2181.556	2164.640	2148.730	2141.011	2125.280	2104.073	2093.273	2093.576	2093.273
37.5	2092.134	2091.039	2072.120	2051.002	2043.844	2022.637	1996.729	1982.164	1985.467	1982.164
40.0	1989.420	1990.408	1966.967	1943.391	1938.468	1914.554	1884.106	1870.814	1869.336	1870.814
42.5	1881.115	1878.435	1851.228	1832.522	1823.771	1797.160	1768.171	1756.936	1750.205	1756.936
45.0	1765.794	1760.230	1733.111	1718.760	1707.017	1677.459	1647.295	1637.146	1630.513	1637.146
47.5	1644.847	1642.675	1615.761	1601.436	1589.408	1556.262	1524.060	1517.463	1513.056	1517.463
50.0	1521.273	1518.246	1494.680	1479.687	1465.202	1436.775	1404.404	1393.756	1390.355	1393.756
52.5	1394.762	1391.815	1373.261	1356.630	1346.783	1314.795	1286.199	1274.429	1269.915	1274.429
55.0	1268.962	1265.036	1252.020	1237.143	1222.578	1193.296	1164.904	1155.111	1150.161	1155.111
57.5	1145.994	1141.943	1124.591	1113.133	1101.479	1073.292	1044.705	1035.668	1027.495	1035.668
60.0	1022.563	1020.711	998.649	989.462	977.995	950.315	922.190	910.991	907.073	910.991
62.5	900.218	897.022	877.159	867.036	853.548	828.246	797.139	787.559	780.286	787.559
65.0	779.484	780.695	763.361	749.054	736.883	706.943	675.506	662.250	650.827	662.250
67.5	661.635	663.273	649.127	633.315	618.750	589.379	558.432	536.780	525.446	536.780
70.0	550.935	552.111	538.996	524.057	508.103	479.186	443.654	420.382	412.796	420.382
72.5	447.696	447.687	434.600	422.038	405.478	372.893	335.162	316.235	306.521	316.235
75.0	349.514	349.318	338.180	328.067	308.720	272.619	236.900	219.486	205.063	219.486
77.5	259.772	260.252	248.652	239.482	216.387	180.918	149.820	140.703	134.373	140.703
80.0	178.763	179.191	169.317	155.188	131.871	106.640	94.692	92.280	89.039	92.280

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CANDELA TABULATION - (Cont.)

82.5	109.062	110.442	99.153	81.703	69.755	62.499	56.401	54.736	51.522	54.736
85.0	52.189	53.187	39.921	35.763	33.938	29.816	23.201	21.251	15.776	21.251
87.5	15.189	13.595	11.770	10.034	8.948	6.838	4.541	3.980	2.377	3.980
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	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132
2.5	2676.740	2677.150	2671.719	2672.725	2681.432	2685.171	2683.729	2678.111	2680.257	2681.753
5.0	2671.657	2674.995	2666.698	2666.635	2678.369	2681.931	2681.744	2673.001	2681.103	2682.349
7.5	2660.020	2666.520	2658.089	2655.133	2666.920	2671.194	2669.404	2663.359	2672.378	2671.265
10.0	2640.505	2648.500	2640.327	2639.196	2651.652	2655.275	2651.678	2646.452	2654.919	2651.812
12.5	2614.215	2624.266	2619.352	2618.096	2628.931	2631.655	2629.029	2626.278	2630.026	2627.542
15.0	2578.237	2588.823	2589.197	2588.948	2600.504	2604.590	2601.946	2599.151	2602.178	2598.893
17.5	2539.821	2549.107	2550.220	2554.386	2568.916	2574.195	2569.869	2566.174	2574.017	2564.758
20.0	2498.769	2509.524	2508.981	2512.453	2530.081	2540.872	2531.746	2529.583	2532.779	2522.478
22.5	2453.373	2465.107	2462.232	2465.178	2482.806	2497.550	2490.027	2488.967	2487.810	2478.399
25.0	2403.943	2414.627	2412.686	2413.924	2431.988	2447.613	2441.674	2438.727	2441.692	2433.297
27.5	2346.270	2357.630	2357.835	2359.046	2375.213	2389.102	2387.375	2384.793	2389.405	2380.128

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CANDELA TABULATION - (Cont.)

30.0	2276.782	2292.968	2296.315	2297.944	2311.824	2325.837	2325.579	2324.262	2326.701	2320.050
32.5	2196.788	2217.488	2226.845	2231.866	2243.930	2258.940	2257.418	2254.979	2260.605	2251.302
35.0	2104.073	2125.280	2141.011	2148.730	2164.640	2181.556	2181.947	2178.021	2186.408	2177.157
37.5	1996.729	2022.637	2043.844	2051.002	2072.120	2091.039	2092.134	2090.157	2097.200	2088.947
40.0	1884.106	1914.554	1938.468	1943.391	1966.967	1990.408	1989.420	1989.464	1999.979	1984.826
42.5	1768.171	1797.160	1823.771	1832.522	1851.228	1878.435	1881.115	1879.477	1893.000	1873.743
45.0	1647.295	1677.459	1707.017	1718.760	1733.111	1760.230	1765.794	1765.109	1777.350	1755.226
47.5	1524.060	1556.262	1589.408	1601.436	1615.761	1642.675	1644.847	1646.743	1658.798	1636.158
50.0	1404.404	1436.775	1465.202	1479.687	1494.680	1518.246	1521.273	1524.407	1533.809	1516.448
52.5	1286.199	1314.795	1346.783	1356.630	1373.261	1391.815	1394.762	1399.952	1406.149	1392.874
55.0	1164.904	1193.296	1222.578	1237.143	1252.020	1265.036	1268.962	1272.408	1281.373	1266.656
57.5	1044.705	1073.292	1101.479	1113.133	1124.591	1141.943	1145.994	1148.371	1159.064	1143.759
60.0	922.190	950.315	977.995	989.462	998.649	1020.711	1022.563	1027.860	1034.992	1022.269
62.5	797.139	828.246	853.548	867.036	877.159	897.022	900.218	909.272	914.837	901.553
65.0	675.506	706.943	736.883	749.054	763.361	780.695	779.484	789.019	794.299	782.707
67.5	558.432	589.379	618.750	633.315	649.127	663.273	661.635	671.945	678.987	665.268
70.0	443.654	479.186	508.103	524.057	538.996	552.111	550.935	560.907	567.353	556.624
72.5	335.162	372.893	405.478	422.038	434.600	447.687	447.696	455.201	462.208	452.023
75.0	236.900	272.619	308.720	328.067	338.180	349.318	349.514	357.883	364.222	354.517
77.5	149.820	180.918	216.387	239.482	248.652	260.252	259.772	267.330	273.242	265.238
80.0	94.692	106.640	131.871	155.188	169.317	179.191	178.763	185.512	191.014	183.820
82.5	56.401	62.499	69.755	81.703	99.153	110.442	109.062	114.599	120.226	113.736
85.0	23.201	29.816	33.938	35.763	39.921	53.187	52.189	56.952	61.297	55.573
87.5	4.541	6.838	8.948	10.034	11.770	13.595	15.189	17.779	20.352	14.717
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	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132	2680.132
2.5	2682.242	2674.808	2673.233	2678.708	2676.963	2675.529	2678.610
5.0	2679.385	2664.614	2662.041	2670.749	2669.395	2667.668	2674.354
7.5	2666.484	2648.767	2646.684	2656.014	2654.643	2651.082	2657.670
10.0	2645.669	2629.136	2626.180	2634.602	2633.409	2627.961	2632.982
12.5	2622.334	2605.472	2603.237	2610.199	2611.116	2605.685	2612.461
15.0	2592.144	2576.947	2573.804	2581.647	2581.754	2577.668	2582.413
17.5	2558.197	2543.071	2537.150	2544.370	2544.139	2541.343	2545.270
20.0	2518.953	2505.918	2498.289	2504.886	2509.337	2503.657	2504.111
22.5	2476.725	2459.614	2457.513	2464.635	2467.057	2465.312	2463.825
25.0	2428.943	2405.484	2407.932	2416.532	2416.185	2417.066	2420.770
27.5	2372.338	2351.362	2353.312	2362.927	2363.301	2362.375	2362.990
30.0	2311.415	2292.834	2291.080	2301.230	2298.995	2298.354	2297.036
32.5	2243.324	2223.649	2221.200	2223.435	2226.453	2225.964	2226.222
35.0	2163.206	2142.160	2137.450	2134.049	2137.227	2134.441	2141.269
37.5	2069.947	2047.832	2042.268	2036.348	2038.039	2035.270	2046.648
40.0	1963.254	1944.647	1933.981	1928.710	1931.844	1928.194	1940.142
42.5	1853.863	1834.125	1822.453	1818.215	1816.702	1812.232	1823.121
45.0	1739.878	1719.944	1707.880	1705.485	1702.343	1697.936	1706.082
47.5	1624.673	1603.315	1593.405	1587.672	1588.206	1581.814	1590.343
50.0	1507.224	1487.682	1475.423	1466.004	1467.953	1461.178	1466.760
52.5	1384.773	1367.358	1354.093	1345.893	1347.870	1342.163	1345.306
55.0	1256.756	1243.803	1229.353	1226.121	1225.258	1224.332	1223.602
57.5	1131.473	1119.632	1106.287	1104.693	1104.008	1099.645	1097.971
60.0	1008.265	997.296	987.093	981.663	983.755	975.030	976.623
62.5	891.235	876.580	867.330	858.098	859.451	852.338	854.626
65.0	773.012	759.898	744.745	736.091	736.278	729.200	733.518
67.5	656.632	644.230	624.180	617.565	614.396	603.917	601.353
70.0	547.623	533.503	514.282	504.907	497.099	480.504	478.937
72.5	444.981	430.006	412.245	396.682	382.945	368.362	368.629
75.0	347.974	334.708	313.172	293.336	280.498	266.850	268.363
77.5	256.941	244.788	219.423	199.685	188.735	177.223	175.558
80.0	178.265	161.465	135.308	121.766	120.306	116.861	117.983
82.5	107.566	87.107	72.007	73.325	76.717	75.640	77.260
85.0	45.726	38.363	35.968	37.713	40.945	39.698	41.862
87.5	13.862	12.375	9.820	10.675	12.179	11.734	11.975
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	984.95	N.A.	14.10
0-30	2100.64	N.A.	30.10
0-40	3439.45	N.A.	49.20
0-60	5862.98	N.A.	83.90
0-80	6932.77	N.A.	99.20
0-90	6989.97	N.A.	100.00
10-90	6735.82	N.A.	96.40
20-40	2454.5	N.A.	35.10
20-50	3777.15	N.A.	54.00
40-70	3160.7	N.A.	45.20
60-80	1069.79	N.A.	15.30
70-80	332.63	N.A.	4.80
80-90	57.20	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	6989.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	254.16
10-20	730.79
20-30	1115.7
30-40	1338.81
40-50	1322.64
50-60	1100.89
60-70	737.16
70-80	332.63
80-90	57.20
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

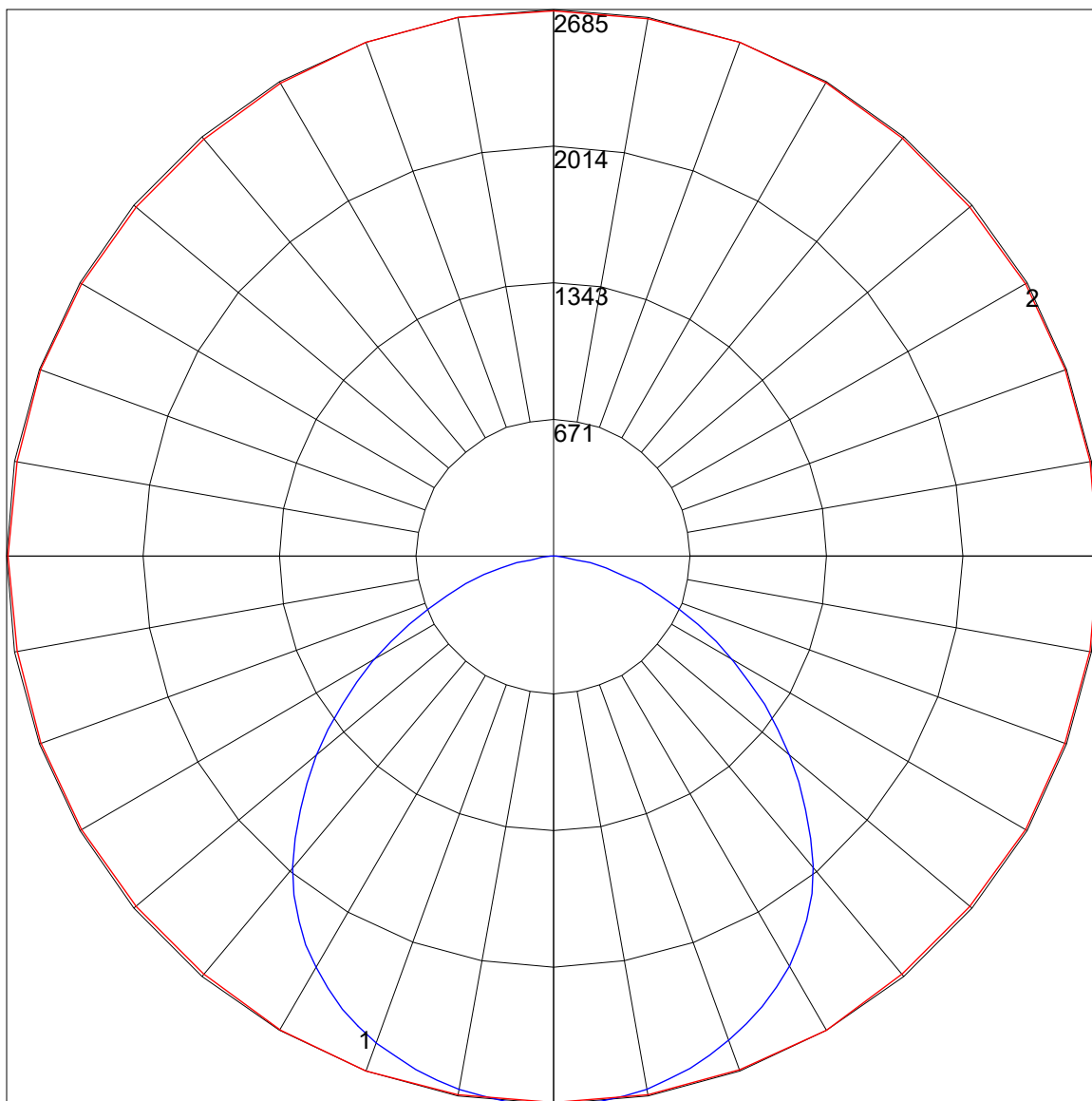
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	21.2	22.8	21.5	23.1	23.4	21.4	23.0	21.8	23.3	23.6
	3H	22.4	23.9	22.8	24.2	24.5	22.9	24.3	23.3	24.6	25.0
	4H	22.7	24.1	23.1	24.4	24.8	23.4	24.7	23.8	25.0	25.4
	6H	22.9	24.1	23.3	24.5	24.8	23.6	24.9	24.0	25.2	25.6
	8H	22.9	24.1	23.3	24.4	24.8	23.7	24.9	24.1	25.3	25.7
	12H	22.9	24.0	23.3	24.4	24.8	23.7	24.8	24.2	25.2	25.7
4H	2H	21.7	23.0	22.1	23.4	23.8	21.9	23.2	22.3	23.6	24.0
	3H	23.1	24.3	23.6	24.7	25.1	23.5	24.7	24.0	25.1	25.5
	4H	23.5	24.5	24.0	24.9	25.4	24.1	25.1	24.6	25.5	26.0
	6H	23.7	24.6	24.2	25.0	25.5	24.5	25.4	25.0	25.8	26.3
	8H	23.7	24.6	24.2	25.0	25.5	24.6	25.4	25.1	25.9	26.3
	12H	23.8	24.5	24.2	25.0	25.4	24.6	25.4	25.1	25.8	26.3
8H	4H	23.7	24.5	24.2	25.0	25.5	24.3	25.1	24.7	25.5	26.0
	6H	24.0	24.6	24.5	25.1	25.6	24.7	25.4	25.2	25.9	26.4
	8H	24.0	24.6	24.5	25.1	25.6	24.9	25.5	25.4	26.0	26.4
	12H	24.0	24.6	24.5	25.1	25.6	24.9	25.5	25.4	25.9	26.5
12H	4H	23.7	24.5	24.2	24.9	25.4	24.3	25.0	24.7	25.5	25.9
	6H	24.0	24.6	24.5	25.0	25.6	24.7	25.3	25.2	25.8	26.3
	8H	24.0	24.6	24.5	25.1	25.6	24.9	25.4	25.4	25.9	26.4

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 2685.171 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.)