

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_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] BX9604HTLO4K[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] 7514.4

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7514
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	17149	17227	17742
55	15162	15323	15767
65	12336	12652	13269
75	7370	8896	9828
85	3414	3031	4644

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225
2.5	2879.588	2876.277	2877.818	2879.694	2873.808	2875.501	2883.493	2882.967	2881.359	2879.053
5.0	2875.013	2867.826	2869.682	2871.137	2861.777	2864.543	2880.421	2883.608	2882.268	2873.559
7.5	2857.077	2849.995	2853.823	2855.297	2845.267	2847.506	2866.553	2871.692	2872.889	2863.193
10.0	2830.537	2825.139	2830.996	2832.279	2823.225	2826.402	2844.176	2850.780	2854.120	2845.018
12.5	2808.476	2801.192	2807.031	2806.045	2798.560	2800.963	2819.090	2824.689	2827.360	2823.330
15.0	2776.174	2771.072	2775.466	2775.351	2766.919	2770.297	2786.635	2793.890	2797.421	2794.167
17.5	2736.243	2732.023	2735.028	2735.277	2727.515	2733.879	2750.141	2757.194	2767.148	2758.716
20.0	2691.997	2691.509	2697.615	2692.830	2685.737	2693.940	2707.952	2711.742	2722.816	2719.379
22.5	2648.688	2650.286	2652.162	2649.559	2641.902	2644.161	2662.556	2664.356	2674.472	2675.716
25.0	2602.403	2598.421	2597.474	2597.847	2588.601	2585.969	2611.189	2615.869	2624.895	2621.707
27.5	2540.287	2539.626	2540.622	2540.220	2529.883	2527.787	2550.336	2558.711	2568.684	2563.726
30.0	2469.385	2470.801	2471.491	2473.893	2462.982	2464.868	2484.842	2494.126	2501.275	2498.653
32.5	2393.257	2392.980	2393.506	2390.261	2387.859	2390.491	2411.643	2420.219	2430.220	2424.172
35.0	2301.931	2294.590	2297.586	2294.169	2297.825	2302.888	2325.514	2340.511	2350.456	2341.440
37.5	2200.210	2187.978	2190.955	2189.136	2195.501	2201.483	2225.257	2245.682	2254.554	2246.984
40.0	2085.712	2072.868	2076.792	2073.423	2079.089	2090.555	2110.558	2133.749	2150.039	2138.736
42.5	1959.911	1948.206	1953.010	1954.637	1959.193	1971.741	1992.960	2014.332	2035.034	2020.496
45.0	1834.091	1825.333	1830.071	1833.449	1836.024	1848.993	1870.422	1886.923	1910.707	1897.546
47.5	1709.668	1700.499	1707.371	1706.796	1712.960	1723.613	1746.573	1758.920	1783.259	1770.300
50.0	1576.813	1570.812	1578.095	1575.999	1586.125	1599.304	1620.313	1630.228	1648.892	1638.785
52.5	1446.245	1442.867	1449.001	1446.877	1455.692	1469.952	1488.673	1497.383	1511.653	1504.992
55.0	1315.409	1316.194	1317.190	1318.118	1321.592	1337.126	1351.052	1361.695	1377.516	1367.878
57.5	1180.353	1182.152	1186.842	1187.579	1189.292	1203.639	1216.369	1229.577	1246.029	1234.535
60.0	1049.900	1048.187	1057.567	1055.318	1061.156	1072.124	1083.916	1098.971	1112.648	1104.982
62.5	918.749	916.289	923.936	922.482	932.407	942.351	958.105	969.198	983.478	977.496
65.0	788.555	783.913	791.522	791.321	800.624	816.914	831.012	841.434	853.896	848.220
67.5	646.473	649.230	660.495	663.902	671.013	692.567	705.899	715.183	729.932	722.362
70.0	514.872	516.556	534.397	542.791	552.869	573.533	588.712	598.388	609.922	602.992
72.5	396.287	396.000	411.677	426.445	443.176	462.270	478.368	485.939	496.888	489.356
75.0	288.499	286.872	301.544	315.345	336.669	359.822	374.083	381.117	391.550	384.735
77.5	188.731	190.520	202.896	214.668	235.887	263.155	276.219	285.139	293.744	287.388
80.0	126.835	125.629	129.333	130.903	145.460	173.580	191.640	197.612	205.346	199.431
82.5	83.057	81.315	82.473	78.827	77.410	93.643	115.637	122.270	129.247	123.198
85.0	45.003	42.677	44.017	40.543	38.667	41.241	49.157	59.742	65.896	61.226
87.5	12.873	12.615	13.093	11.476	10.557	13.304	14.902	15.821	21.879	19.113
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	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225
2.5	2885.092	2886.642	2882.622	2873.262	2872.180	2878.019	2877.579	2876.832	2883.044	2876.832
5.0	2882.957	2883.158	2879.330	2866.715	2866.782	2875.703	2872.114	2870.812	2878.172	2870.812
7.5	2869.692	2871.616	2867.022	2854.350	2857.527	2866.591	2859.604	2856.293	2862.016	2856.293
10.0	2850.636	2854.503	2850.607	2837.217	2838.433	2847.219	2838.625	2835.342	2840.931	2835.342
12.5	2826.287	2829.111	2826.182	2814.534	2815.884	2821.167	2810.361	2806.523	2812.151	2806.523
15.0	2797.173	2800.015	2795.622	2783.199	2783.467	2783.065	2771.685	2770.335	2774.681	2770.335
17.5	2762.688	2767.340	2761.664	2746.044	2741.565	2740.369	2730.386	2727.295	2732.138	2727.295
20.0	2721.705	2731.515	2719.915	2700.965	2697.232	2697.816	2686.254	2682.196	2685.010	2682.196
22.5	2676.856	2684.943	2669.093	2650.143	2646.975	2650.066	2637.452	2638.007	2636.533	2638.007
25.0	2624.875	2631.259	2614.462	2595.043	2593.712	2595.799	2584.313	2583.653	2577.040	2583.653
27.5	2566.502	2568.359	2553.428	2536.047	2534.745	2534.525	2522.313	2516.034	2516.072	2516.034
30.0	2500.069	2500.347	2485.282	2470.361	2468.610	2465.011	2447.611	2440.078	2442.318	2440.078
32.5	2426.794	2428.431	2412.294	2399.325	2393.927	2383.868	2361.615	2352.437	2351.920	2352.437
35.0	2345.661	2345.240	2327.055	2309.951	2301.653	2284.741	2261.943	2250.333	2250.659	2250.333
37.5	2249.108	2247.931	2227.593	2204.890	2197.195	2174.397	2146.546	2130.887	2134.438	2130.887
40.0	2138.688	2139.750	2114.550	2089.206	2083.913	2058.205	2025.472	2011.183	2009.594	2011.183
42.5	2022.256	2019.376	1990.127	1970.018	1960.610	1932.002	1900.839	1888.760	1881.525	1888.760
45.0	1898.283	1892.301	1863.148	1847.720	1835.096	1803.320	1770.893	1759.982	1752.852	1759.982
47.5	1768.261	1765.926	1736.993	1721.593	1708.663	1673.030	1638.412	1631.319	1626.582	1631.319
50.0	1635.416	1632.162	1606.827	1590.710	1575.138	1544.578	1509.777	1498.330	1494.674	1498.330
52.5	1499.412	1496.244	1476.298	1458.419	1447.834	1413.445	1382.703	1370.050	1365.198	1370.050
55.0	1364.174	1359.953	1345.960	1329.967	1314.309	1282.830	1252.308	1241.780	1236.458	1241.780
57.5	1231.979	1227.624	1208.970	1196.653	1184.124	1153.822	1123.090	1113.375	1104.589	1113.375
60.0	1099.287	1097.296	1073.579	1063.702	1051.374	1021.618	991.383	979.343	975.132	979.343
62.5	967.762	964.326	942.973	932.091	917.591	890.390	856.949	846.651	838.831	846.651
65.0	837.970	839.271	820.637	805.256	792.172	759.985	726.190	711.939	699.659	711.939
67.5	711.278	713.039	697.831	680.833	665.175	633.600	600.331	577.055	564.871	577.055
70.0	592.273	593.536	579.438	563.378	546.227	515.140	476.942	451.923	443.769	451.923
72.5	481.287	481.278	467.208	453.704	435.902	400.872	360.310	339.962	329.520	339.962
75.0	375.738	375.528	363.554	352.682	331.884	293.074	254.675	235.954	220.449	235.954
77.5	279.263	279.779	267.308	257.450	232.623	194.492	161.061	151.260	144.455	151.260
80.0	192.176	192.636	182.021	166.832	141.766	114.641	101.797	99.203	95.720	99.203

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CANDELA TABULATION - (Cont.)

82.5	117.245	118.728	106.592	87.833	74.989	67.188	60.632	58.843	55.387	58.843
85.0	56.105	57.177	42.916	38.447	36.485	32.053	24.942	22.846	16.960	22.846
87.5	16.328	14.615	12.653	10.787	9.619	7.351	4.881	4.278	2.555	4.278
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	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225
2.5	2877.579	2878.019	2872.180	2873.262	2882.622	2886.642	2885.092	2879.053	2881.359	2882.967
5.0	2872.114	2875.703	2866.782	2866.715	2879.330	2883.158	2882.957	2873.559	2882.268	2883.608
7.5	2859.604	2866.591	2857.527	2854.350	2867.022	2871.616	2869.692	2863.193	2872.889	2871.692
10.0	2838.625	2847.219	2838.433	2837.217	2850.607	2854.503	2850.636	2845.018	2854.120	2850.780
12.5	2810.361	2821.167	2815.884	2814.534	2826.182	2829.111	2826.287	2823.330	2827.360	2824.689
15.0	2771.685	2783.065	2783.467	2783.199	2795.622	2800.015	2797.173	2794.167	2797.421	2793.890
17.5	2730.386	2740.369	2741.565	2746.044	2761.664	2767.340	2762.688	2758.716	2767.148	2757.194
20.0	2686.254	2697.816	2697.232	2700.965	2719.915	2731.515	2721.705	2719.379	2722.816	2711.742
22.5	2637.452	2650.066	2646.975	2650.143	2669.093	2684.943	2676.856	2675.716	2674.472	2664.356
25.0	2584.313	2595.799	2593.712	2595.043	2614.462	2631.259	2624.875	2621.707	2624.895	2615.869
27.5	2522.313	2534.525	2534.745	2536.047	2553.428	2568.359	2566.502	2563.726	2568.684	2558.711

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_P.IES

CANDELA TABULATION - (Cont.)

30.0	2447.611	2465.011	2468.610	2470.361	2485.282	2500.347	2500.069	2498.653	2501.275	2494.126
32.5	2361.615	2383.868	2393.927	2399.325	2412.294	2428.431	2426.794	2424.172	2430.220	2420.219
35.0	2261.943	2284.741	2301.653	2309.951	2327.055	2345.240	2345.661	2341.440	2350.456	2340.511
37.5	2146.546	2174.397	2197.195	2204.890	2227.593	2247.931	2249.108	2246.984	2254.554	2245.682
40.0	2025.472	2058.205	2083.913	2089.206	2114.550	2139.750	2138.688	2138.736	2150.039	2133.749
42.5	1900.839	1932.002	1960.610	1970.018	1990.127	2019.376	2022.256	2020.496	2035.034	2014.332
45.0	1770.893	1803.320	1835.096	1847.720	1863.148	1892.301	1898.283	1897.546	1910.707	1886.923
47.5	1638.412	1673.030	1708.663	1721.593	1736.993	1765.926	1768.261	1770.300	1783.259	1758.920
50.0	1509.777	1544.578	1575.138	1590.710	1606.827	1632.162	1635.416	1638.785	1648.892	1630.228
52.5	1382.703	1413.445	1447.834	1458.419	1476.298	1496.244	1499.412	1504.992	1511.653	1497.383
55.0	1252.308	1282.830	1314.309	1329.967	1345.960	1359.953	1364.174	1367.878	1377.516	1361.695
57.5	1123.090	1153.822	1184.124	1196.653	1208.970	1227.624	1231.979	1234.535	1246.029	1229.577
60.0	991.383	1021.618	1051.374	1063.702	1073.579	1097.296	1099.287	1104.982	1112.648	1098.971
62.5	856.949	890.390	917.591	932.091	942.973	964.326	967.762	977.496	983.478	969.198
65.0	726.190	759.985	792.172	805.256	820.637	839.271	837.970	848.220	853.896	841.434
67.5	600.331	633.600	665.175	680.833	697.831	713.039	711.278	722.362	729.932	715.183
70.0	476.942	515.140	546.227	563.378	579.438	593.536	592.273	602.992	609.922	598.388
72.5	360.310	400.872	435.902	453.704	467.208	481.278	481.287	489.356	496.888	485.939
75.0	254.675	293.074	331.884	352.682	363.554	375.528	375.738	384.735	391.550	381.117
77.5	161.061	194.492	232.623	257.450	267.308	279.779	279.263	287.388	293.744	285.139
80.0	101.797	114.641	141.766	166.832	182.021	192.636	192.176	199.431	205.346	197.612
82.5	60.632	67.188	74.989	87.833	106.592	118.728	117.245	123.198	129.247	122.270
85.0	24.942	32.053	36.485	38.447	42.916	57.177	56.105	61.226	65.896	59.742
87.5	4.881	7.351	9.619	10.787	12.653	14.615	16.328	19.113	21.879	15.821
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_P.IES

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	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225	2881.225
2.5	2883.493	2875.501	2873.808	2879.694	2877.818	2876.277	2879.588
5.0	2880.421	2864.543	2861.777	2871.137	2869.682	2867.826	2875.013
7.5	2866.553	2847.506	2845.267	2855.297	2853.823	2849.995	2857.077
10.0	2844.176	2826.402	2823.225	2832.279	2830.996	2825.139	2830.537
12.5	2819.090	2800.963	2798.560	2806.045	2807.031	2801.192	2808.476
15.0	2786.635	2770.297	2766.919	2775.351	2775.466	2771.072	2776.174
17.5	2750.141	2733.879	2727.515	2735.277	2735.028	2732.023	2736.243
20.0	2707.952	2693.940	2685.737	2692.830	2697.615	2691.509	2691.997
22.5	2662.556	2644.161	2641.902	2649.559	2652.162	2650.286	2648.688
25.0	2611.189	2585.969	2588.601	2597.847	2597.474	2598.421	2602.403
27.5	2550.336	2527.787	2529.883	2540.220	2540.622	2539.626	2540.287
30.0	2484.842	2464.868	2462.982	2473.893	2471.491	2470.801	2469.385
32.5	2411.643	2390.491	2387.859	2390.261	2393.506	2392.980	2393.257
35.0	2325.514	2302.888	2297.825	2294.169	2297.586	2294.590	2301.931
37.5	2225.257	2201.483	2195.501	2189.136	2190.955	2187.978	2200.210
40.0	2110.558	2090.555	2079.089	2073.423	2076.792	2072.868	2085.712
42.5	1992.960	1971.741	1959.193	1954.637	1953.010	1948.206	1959.911
45.0	1870.422	1848.993	1836.024	1833.449	1830.071	1825.333	1834.091
47.5	1746.573	1723.613	1712.960	1706.796	1707.371	1700.499	1709.668
50.0	1620.313	1599.304	1586.125	1575.999	1578.095	1570.812	1576.813
52.5	1488.673	1469.952	1455.692	1446.877	1449.001	1442.867	1446.245
55.0	1351.052	1337.126	1321.592	1318.118	1317.190	1316.194	1315.409
57.5	1216.369	1203.639	1189.292	1187.579	1186.842	1182.152	1180.353
60.0	1083.916	1072.124	1061.156	1055.318	1057.567	1048.187	1049.900
62.5	958.105	942.351	932.407	922.482	923.936	916.289	918.749
65.0	831.012	816.914	800.624	791.321	791.522	783.913	788.555
67.5	705.899	692.567	671.013	663.902	660.495	649.230	646.473
70.0	588.712	573.533	552.869	542.791	534.397	516.556	514.872
72.5	478.368	462.270	443.176	426.445	411.677	396.000	396.287
75.0	374.083	359.822	336.669	315.345	301.544	286.872	288.499
77.5	276.219	263.155	235.887	214.668	202.896	190.520	188.731
80.0	191.640	173.580	145.460	130.903	129.333	125.629	126.835
82.5	115.637	93.643	77.410	78.827	82.473	81.315	83.057
85.0	49.157	41.241	38.667	40.543	44.017	42.677	45.003
87.5	14.902	13.304	10.557	11.476	13.093	12.615	12.873
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_P.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_P.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1058.85	N.A.	14.10
0-30	2258.25	N.A.	30.10
0-40	3697.51	N.A.	49.20
0-60	6302.89	N.A.	83.90
0-80	7452.95	N.A.	99.20
0-90	7514.44	N.A.	100.00
10-90	7241.21	N.A.	96.40
20-40	2638.67	N.A.	35.10
20-50	4060.55	N.A.	54.00
40-70	3397.85	N.A.	45.20
60-80	1150.06	N.A.	15.30
70-80	357.59	N.A.	4.80
80-90	61.49	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	7514.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.23
10-20	785.62
20-30	1199.41
30-40	1439.26
40-50	1421.88
50-60	1183.49
60-70	792.47
70-80	357.59
80-90	61.49
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_P.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9604HTLO4K120-480V_P.IES

UGR TABLE - CORRECTED

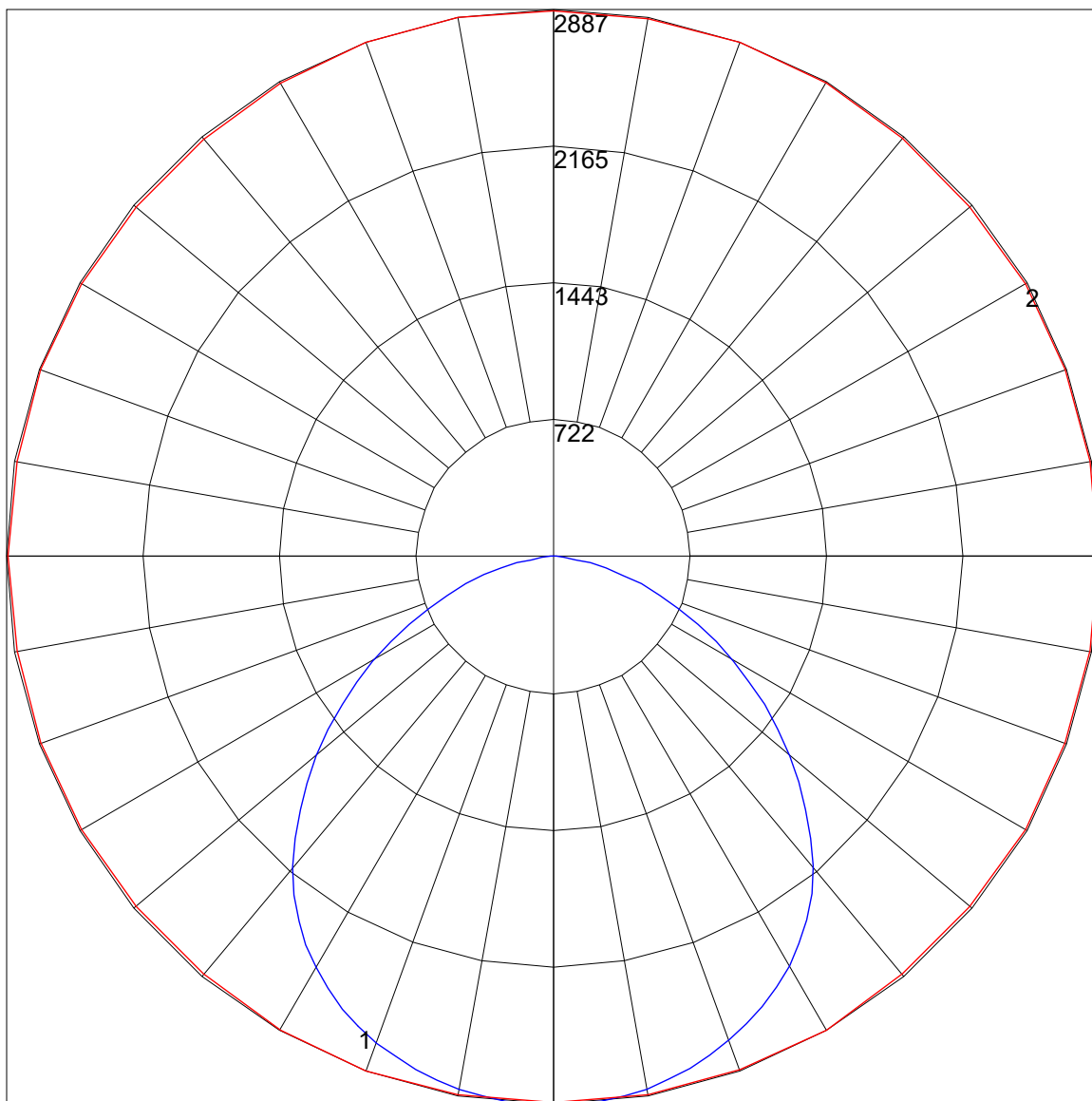
Reflectances

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	21.4	23.0	21.7	23.3	23.6	21.6	23.2	22.0	23.5	23.8
	3H	22.6	24.1	23.0	24.4	24.7	23.1	24.5	23.5	24.8	25.2
	4H	22.9	24.3	23.3	24.6	25.0	23.6	24.9	24.0	25.2	25.6
	6H	23.1	24.3	23.5	24.7	25.0	23.8	25.1	24.2	25.4	25.8
	8H	23.1	24.3	23.5	24.6	25.0	23.9	25.1	24.3	25.5	25.9
	12H	23.1	24.2	23.5	24.6	25.0	23.9	25.0	24.4	25.4	25.9
4H	2H	21.9	23.2	22.3	23.6	24.0	22.1	23.4	22.5	23.8	24.2
	3H	23.3	24.5	23.8	24.9	25.3	23.7	24.9	24.2	25.3	25.7
	4H	23.7	24.7	24.2	25.1	25.6	24.3	25.3	24.8	25.7	26.2
	6H	23.9	24.8	24.4	25.2	25.7	24.7	25.6	25.2	26.0	26.5
	8H	23.9	24.8	24.4	25.2	25.7	24.8	25.6	25.3	26.1	26.5
	12H	24.0	24.7	24.4	25.2	25.6	24.8	25.6	25.3	26.0	26.5
8H	4H	23.9	24.7	24.4	25.2	25.7	24.5	25.3	24.9	25.7	26.2
	6H	24.2	24.8	24.7	25.3	25.8	24.9	25.6	25.4	26.1	26.6
	8H	24.2	24.8	24.7	25.3	25.8	25.1	25.7	25.6	26.2	26.6
	12H	24.2	24.8	24.7	25.3	25.8	25.1	25.7	25.6	26.1	26.7
12H	4H	23.9	24.7	24.4	25.1	25.6	24.5	25.2	24.9	25.7	26.1
	6H	24.2	24.8	24.7	25.2	25.8	24.9	25.5	25.4	26.0	26.5
	8H	24.2	24.8	24.7	25.3	25.8	25.1	25.6	25.6	26.1	26.6

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 2886.642 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.)