

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9654HTHO5K120-480V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 4566
[TESTLAB] TUV SUD America
[ISSUEDATE] 8/29/2024 1:35:10 PM
[MANUFAC] BEGHELLI NORTH AMERICA
[LUMCAT] OUTDOOR LUMINAIRES / STAIRWELL & PASSAGEWAY LUMINAIRE
[LUMINAIRE] BX9654HTHO5K[120-480V] [CR; RW] [FP; REM; SP] [OS] [CC]
[AMBIENT] 24.7 deg C
[POWERFACTOR] 0.9941
[ATHD] 8.85%
[CURRENT] 0.27
[VOLTAGE] 120.15
[STABILIZATION] 33:45.2 Stable
[POWER VARIATION] 0.49%
[LIGHT VARIATION] 0.28%
[Lumens] 6556

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 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	25051	24313	23759
55	22741	21477	20528
65	19507	17532	15692
75	15105	12300	7273
85	8347	2040	1229

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241
2.5	2571.464	2574.735	2573.025	2570.884	2555.760	2556.057	2563.047	2562.050	2562.363	2564.876
5.0	2570.244	2568.638	2569.129	2564.415	2547.492	2549.142	2557.886	2557.500	2556.518	2558.481
7.5	2556.578	2556.474	2558.094	2553.559	2536.249	2536.026	2544.845	2543.075	2540.413	2542.703
10.0	2535.624	2538.405	2539.773	2536.100	2520.709	2517.675	2524.174	2522.107	2520.025	2523.445
12.5	2516.679	2518.329	2516.426	2511.370	2495.443	2494.268	2502.076	2501.629	2500.737	2504.797
15.0	2491.235	2491.205	2488.350	2479.011	2463.456	2467.471	2474.847	2471.337	2473.122	2475.992
17.5	2453.626	2456.079	2456.184	2444.837	2431.587	2431.423	2440.286	2436.420	2439.126	2441.387
20.0	2416.880	2417.653	2417.430	2408.210	2395.673	2393.949	2400.165	2394.647	2399.599	2401.161
22.5	2373.040	2377.204	2374.408	2364.667	2351.759	2350.867	2355.076	2350.109	2355.507	2357.247
25.0	2327.847	2328.635	2327.654	2316.649	2303.696	2300.930	2304.247	2299.190	2300.915	2304.797
27.5	2281.271	2277.479	2272.378	2259.440	2249.566	2249.581	2248.019	2240.301	2242.681	2245.149
30.0	2220.151	2218.798	2211.095	2196.536	2184.461	2186.364	2187.316	2178.319	2180.460	2179.241
32.5	2145.841	2147.105	2141.097	2128.932	2113.630	2116.262	2112.202	2109.407	2105.436	2105.302
35.0	2063.455	2069.344	2058.830	2044.093	2033.907	2034.397	2026.516	2024.850	2020.181	2017.653
37.5	1976.891	1973.843	1964.444	1944.175	1937.349	1938.628	1931.594	1925.928	1922.330	1918.597
40.0	1876.006	1866.816	1859.083	1835.899	1829.668	1830.888	1822.545	1812.998	1809.414	1804.626
42.5	1763.329	1759.016	1747.833	1723.118	1720.649	1712.901	1705.332	1693.643	1690.178	1687.234
45.0	1647.216	1651.216	1631.765	1610.039	1604.759	1592.654	1582.483	1573.694	1564.905	1562.273
47.5	1536.546	1539.595	1516.440	1498.684	1491.100	1475.278	1463.991	1450.473	1447.365	1446.249
50.0	1426.560	1429.430	1412.254	1396.982	1391.033	1374.110	1355.016	1346.510	1337.587	1338.524
52.5	1332.219	1328.367	1310.016	1284.498	1275.902	1257.477	1236.910	1229.847	1220.061	1216.299
55.0	1212.953	1215.600	1191.985	1168.102	1155.848	1135.178	1114.314	1110.194	1100.082	1094.922
57.5	1102.209	1100.900	1073.389	1052.198	1040.271	1015.808	995.242	989.933	975.419	974.987
60.0	986.587	985.174	957.782	936.501	923.712	900.231	879.411	871.649	854.740	855.261
62.5	875.307	873.716	843.186	822.604	810.068	787.985	767.135	758.956	736.665	736.739
65.0	766.600	764.057	733.274	710.120	701.004	676.987	656.317	643.602	620.195	616.686
67.5	657.596	658.086	628.984	603.941	593.725	568.533	548.056	527.147	502.759	497.911
70.0	554.644	554.004	526.195	504.053	491.873	465.775	440.538	415.630	393.189	388.728
72.5	454.978	453.922	429.043	410.544	396.282	369.916	337.780	311.101	288.111	279.158
75.0	363.536	361.291	339.326	323.370	311.904	280.155	243.780	214.603	183.865	175.032
77.5	276.273	275.604	256.644	241.981	231.185	193.472	153.142	121.496	87.635	76.496
80.0	195.464	196.550	181.263	168.875	153.067	111.131	65.997	44.628	34.352	32.151
82.5	126.329	126.998	115.087	103.309	76.199	38.665	23.541	21.132	18.975	18.485
85.0	67.648	69.448	59.291	41.535	19.868	13.191	11.495	11.242	10.097	9.964
87.5	24.805	26.485	18.425	6.469	5.324	4.521	3.911	4.045	2.959	3.004
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	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241
2.5	2561.902	2562.913	2564.950	2557.574	2555.923	2574.051	2577.129	2575.791	2576.906	2575.791
5.0	2554.674	2556.429	2557.990	2549.960	2548.280	2567.895	2573.010	2569.084	2567.761	2569.084
7.5	2542.197	2546.168	2548.146	2542.034	2536.680	2557.336	2560.980	2559.269	2557.589	2559.269
10.0	2522.300	2527.966	2529.988	2522.969	2516.337	2539.922	2546.718	2545.930	2542.183	2545.930
12.5	2499.711	2502.269	2505.674	2501.049	2493.971	2518.404	2525.616	2522.791	2519.698	2522.791
15.0	2466.222	2471.486	2476.616	2473.389	2466.846	2491.056	2497.361	2494.447	2488.840	2494.447
17.5	2434.264	2438.279	2442.755	2440.941	2432.449	2458.280	2465.642	2460.273	2456.808	2460.273
20.0	2397.919	2398.841	2408.820	2402.009	2395.123	2420.092	2426.457	2423.200	2422.174	2423.200
22.5	2351.804	2353.589	2362.526	2356.072	2353.440	2377.724	2383.479	2383.435	2381.323	2383.435
25.0	2299.860	2300.440	2311.563	2308.247	2307.013	2327.847	2338.554	2332.829	2324.546	2332.829
27.5	2244.480	2239.929	2255.083	2254.622	2251.038	2268.452	2283.858	2275.278	2268.422	2275.278
30.0	2178.958	2173.962	2188.907	2189.889	2184.163	2203.689	2220.330	2206.782	2205.652	2206.782
32.5	2106.180	2100.633	2114.998	2111.964	2107.622	2125.691	2144.220	2127.222	2123.713	2127.222
35.0	2019.854	2010.425	2026.724	2024.954	2014.887	2034.397	2051.187	2033.713	2034.918	2033.713
37.5	1919.296	1907.934	1923.668	1926.865	1916.560	1934.003	1950.391	1936.754	1935.832	1936.754
40.0	1805.518	1795.376	1809.890	1816.582	1815.526	1833.475	1848.763	1839.320	1836.301	1839.320
42.5	1688.022	1680.542	1698.670	1706.655	1708.559	1730.895	1748.265	1737.111	1737.736	1737.111
45.0	1569.114	1561.068	1585.814	1595.049	1595.718	1622.263	1642.041	1630.546	1630.932	1630.546
47.5	1446.577	1450.056	1469.270	1482.193	1490.729	1508.827	1530.151	1519.474	1520.664	1519.474
50.0	1340.799	1341.929	1363.091	1385.085	1390.468	1403.049	1426.545	1421.058	1420.969	1421.058
52.5	1219.571	1223.407	1248.168	1264.347	1275.173	1298.432	1320.173	1312.113	1311.741	1312.113
55.0	1098.550	1105.287	1131.059	1143.699	1156.146	1179.806	1203.198	1197.234	1197.160	1197.234
57.5	979.880	984.802	1009.890	1023.229	1037.148	1062.355	1082.222	1082.133	1078.534	1082.133
60.0	859.767	867.530	891.769	906.045	919.608	944.546	964.414	967.701	967.061	967.701
62.5	741.156	751.372	774.779	790.141	802.528	829.058	850.279	853.268	854.859	853.268
65.0	620.299	636.746	660.674	675.322	688.959	715.206	737.319	741.067	741.409	741.067
67.5	502.670	517.570	549.528	567.299	579.107	604.610	627.512	630.991	631.259	630.991
70.0	394.037	405.696	439.230	461.239	476.586	502.402	523.667	524.723	528.337	524.723
72.5	284.720	299.190	332.620	364.354	380.549	407.019	424.835	424.775	429.831	424.775
75.0	182.304	199.732	237.653	271.381	293.301	317.526	331.400	331.668	335.044	331.668
77.5	84.780	104.781	145.542	181.263	211.079	234.129	245.832	244.762	245.654	244.762
80.0	33.965	36.330	55.528	96.795	130.225	159.045	169.202	166.540	168.236	166.540

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CANDELA TABULATION - (Cont.)

82.5	18.440	18.723	21.384	27.422	53.327	91.040	102.565	99.011	99.546	99.011
85.0	9.859	9.666	10.291	10.484	12.432	29.876	46.635	45.713	45.594	45.713
87.5	2.602	2.721	2.855	2.870	2.602	3.629	11.168	9.755	10.990	9.755
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	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241
2.5	2577.129	2574.051	2555.923	2557.574	2564.950	2562.913	2561.902	2564.876	2562.363	2562.050
5.0	2573.010	2567.895	2548.280	2549.960	2557.990	2556.429	2554.674	2558.481	2556.518	2557.500
7.5	2560.980	2557.336	2536.680	2542.034	2548.146	2546.168	2542.197	2542.703	2540.413	2543.075
10.0	2546.718	2539.922	2516.337	2522.969	2529.988	2527.966	2522.300	2523.445	2520.025	2522.107
12.5	2525.616	2518.404	2493.971	2501.049	2505.674	2502.269	2499.711	2504.797	2500.737	2501.629
15.0	2497.361	2491.056	2466.846	2473.389	2476.616	2471.486	2466.222	2475.992	2473.122	2471.337
17.5	2465.642	2458.280	2432.449	2440.941	2442.755	2438.279	2434.264	2441.387	2439.126	2436.420
20.0	2426.457	2420.092	2395.123	2402.009	2408.820	2398.841	2397.919	2401.161	2399.599	2394.647
22.5	2383.479	2377.724	2353.440	2356.072	2362.526	2353.589	2351.804	2357.247	2355.507	2350.109
25.0	2338.554	2327.847	2307.013	2308.247	2311.563	2300.440	2299.860	2304.797	2300.915	2299.190
27.5	2283.858	2268.452	2251.038	2254.622	2255.083	2239.929	2244.480	2245.149	2242.681	2240.301

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CANDELA TABULATION - (Cont.)

30.0	2220.330	2203.689	2184.163	2189.889	2188.907	2173.962	2178.958	2179.241	2180.460	2178.319
32.5	2144.220	2125.691	2107.622	2111.964	2114.998	2100.633	2106.180	2105.302	2105.436	2109.407
35.0	2051.187	2034.397	2014.887	2024.954	2026.724	2010.425	2019.854	2017.653	2020.181	2024.850
37.5	1950.391	1934.003	1916.560	1926.865	1923.668	1907.934	1919.296	1918.597	1922.330	1925.928
40.0	1848.763	1833.475	1815.526	1816.582	1809.890	1795.376	1805.518	1804.626	1809.414	1812.998
42.5	1748.265	1730.895	1708.559	1706.655	1698.670	1680.542	1688.022	1687.234	1690.178	1693.643
45.0	1642.041	1622.263	1595.718	1595.049	1585.814	1561.068	1569.114	1562.273	1564.905	1573.694
47.5	1530.151	1508.827	1490.729	1482.193	1469.270	1450.056	1446.577	1446.249	1447.365	1450.473
50.0	1426.545	1403.049	1390.468	1385.085	1363.091	1341.929	1340.799	1338.524	1337.587	1346.510
52.5	1320.173	1298.432	1275.173	1264.347	1248.168	1223.407	1219.571	1216.299	1220.061	1229.847
55.0	1203.198	1179.806	1156.146	1143.699	1131.059	1105.287	1098.550	1094.922	1100.082	1110.194
57.5	1082.222	1062.355	1037.148	1023.229	1009.890	984.802	979.880	974.987	975.419	989.933
60.0	964.414	944.546	919.608	906.045	891.769	867.530	859.767	855.261	854.740	871.649
62.5	850.279	829.058	802.528	790.141	774.779	751.372	741.156	736.739	736.665	758.956
65.0	737.319	715.206	688.959	675.322	660.674	636.746	620.299	616.686	620.195	643.602
67.5	627.512	604.610	579.107	567.299	549.528	517.570	502.670	497.911	502.759	527.147
70.0	523.667	502.402	476.586	461.239	439.230	405.696	394.037	388.728	393.189	415.630
72.5	424.835	407.019	380.549	364.354	332.620	299.190	284.720	279.158	288.111	311.101
75.0	331.400	317.526	293.301	271.381	237.653	199.732	182.304	175.032	183.865	214.603
77.5	245.832	234.129	211.079	181.263	145.542	104.781	84.780	76.496	87.635	121.496
80.0	169.202	159.045	130.225	96.795	55.528	36.330	33.965	32.151	34.352	44.628
82.5	102.565	91.040	53.327	27.422	21.384	18.723	18.440	18.485	18.975	21.132
85.0	46.635	29.876	12.432	10.484	10.291	9.666	9.859	9.964	10.097	11.242
87.5	11.168	3.629	2.602	2.870	2.855	2.721	2.602	3.004	2.959	4.045
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241	2571.241
2.5	2563.047	2556.057	2555.760	2570.884	2573.025	2574.735	2571.464
5.0	2557.886	2549.142	2547.492	2564.415	2569.129	2568.638	2570.244
7.5	2544.845	2536.026	2536.249	2553.559	2558.094	2556.474	2556.578
10.0	2524.174	2517.675	2520.709	2536.100	2539.773	2538.405	2535.624
12.5	2502.076	2494.268	2495.443	2511.370	2516.426	2518.329	2516.679
15.0	2474.847	2467.471	2463.456	2479.011	2488.350	2491.205	2491.235
17.5	2440.286	2431.423	2431.587	2444.837	2456.184	2456.079	2453.626
20.0	2400.165	2393.949	2395.673	2408.210	2417.430	2417.653	2416.880
22.5	2355.076	2350.867	2351.759	2364.667	2374.408	2377.204	2373.040
25.0	2304.247	2300.930	2303.696	2316.649	2327.654	2328.635	2327.847
27.5	2248.019	2249.581	2249.566	2259.440	2272.378	2277.479	2281.271
30.0	2187.316	2186.364	2184.461	2196.536	2211.095	2218.798	2220.151
32.5	2112.202	2116.262	2113.630	2128.932	2141.097	2147.105	2145.841
35.0	2026.516	2034.397	2033.907	2044.093	2058.830	2069.344	2063.455
37.5	1931.594	1938.628	1937.349	1944.175	1964.444	1973.843	1976.891
40.0	1822.545	1830.888	1829.668	1835.899	1859.083	1866.816	1876.006
42.5	1705.332	1712.901	1720.649	1723.118	1747.833	1759.016	1763.329
45.0	1582.483	1592.654	1604.759	1610.039	1631.765	1651.216	1647.216
47.5	1463.991	1475.278	1491.100	1498.684	1516.440	1539.595	1536.546
50.0	1355.016	1374.110	1391.033	1396.982	1412.254	1429.430	1426.560
52.5	1236.910	1257.477	1275.902	1284.498	1310.016	1328.367	1332.219
55.0	1114.314	1135.178	1155.848	1168.102	1191.985	1215.600	1212.953
57.5	995.242	1015.808	1040.271	1052.198	1073.389	1100.900	1102.209
60.0	879.411	900.231	923.712	936.501	957.782	985.174	986.587
62.5	767.135	787.985	810.068	822.604	843.186	873.716	875.307
65.0	656.317	676.987	701.004	710.120	733.274	764.057	766.600
67.5	548.056	568.533	593.725	603.941	628.984	658.086	657.596
70.0	440.538	465.775	491.873	504.053	526.195	554.004	554.644
72.5	337.780	369.916	396.282	410.544	429.043	453.922	454.978
75.0	243.780	280.155	311.904	323.370	339.326	361.291	363.536
77.5	153.142	193.472	231.185	241.981	256.644	275.604	276.273
80.0	65.997	111.131	153.067	168.875	181.263	196.550	195.464
82.5	23.541	38.665	76.199	103.309	115.087	126.998	126.329
85.0	11.495	13.191	19.868	41.535	59.291	69.448	67.648
87.5	3.911	4.521	5.324	6.469	18.425	26.485	24.805
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	943.10	N.A.	14.40
0-30	2008.73	N.A.	30.60
0-40	3276.02	N.A.	50.00
0-60	5539.48	N.A.	84.50
0-80	6514.78	N.A.	99.40
0-90	6555.62	N.A.	100.00
10-90	6312.22	N.A.	96.30
20-40	2332.92	N.A.	35.60
20-50	3568.81	N.A.	54.40
40-70	2943.82	N.A.	44.90
60-80	975.30	N.A.	14.90
70-80	294.93	N.A.	4.50
80-90	40.84	N.A.	0.60
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	6555.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	243.40
10-20	699.70
20-30	1065.63
30-40	1267.29
40-50	1235.89
50-60	1027.57
60-70	680.36
70-80	294.93
80-90	40.84
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

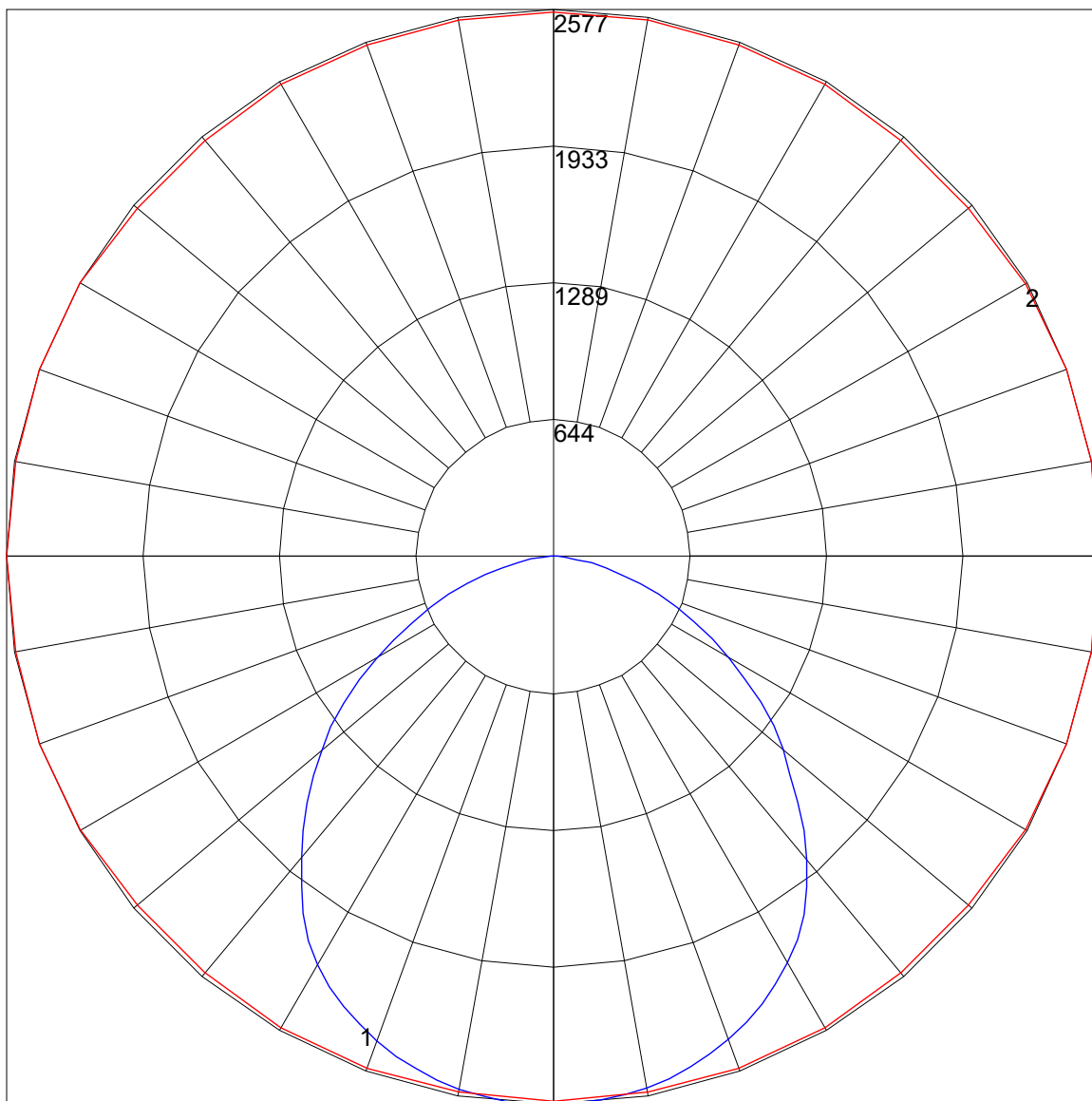
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UGR TABLE - CORRECTED

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	22.9	24.4	23.2	24.7	25.1	22.2	23.8	22.6	24.1	24.4
	3H	24.4	25.8	24.8	26.2	26.5	23.3	24.7	23.7	25.1	25.4
	4H	25.0	26.3	25.4	26.6	27.0	23.5	24.8	23.9	25.2	25.6
	6H	25.3	26.5	25.7	26.9	27.3	23.5	24.7	23.9	25.1	25.5
	8H	25.4	26.5	25.8	26.9	27.3	23.5	24.6	23.9	25.0	25.4
	12H	25.4	26.5	25.8	26.9	27.3	23.4	24.6	23.9	24.9	25.4
4H	2H	23.3	24.6	23.7	25.0	25.4	22.8	24.1	23.2	24.5	24.8
	3H	25.0	26.1	25.5	26.5	26.9	24.1	25.2	24.5	25.6	26.0
	4H	25.7	26.7	26.1	27.1	27.5	24.3	25.3	24.8	25.7	26.2
	6H	26.1	27.0	26.6	27.4	27.9	24.4	25.2	24.8	25.6	26.1
	8H	26.2	27.0	26.7	27.5	27.9	24.3	25.1	24.8	25.6	26.0
	12H	26.3	27.0	26.8	27.5	28.0	24.3	25.0	24.8	25.5	25.9
8H	4H	25.8	26.6	26.3	27.0	27.5	24.6	25.3	25.0	25.8	26.3
	6H	26.3	27.0	26.8	27.5	27.9	24.6	25.2	25.1	25.7	26.2
	8H	26.5	27.1	27.0	27.6	28.1	24.5	25.1	25.0	25.6	26.1
	12H	26.6	27.1	27.1	27.6	28.2	24.5	25.0	25.0	25.5	26.1
12H	4H	25.8	26.5	26.3	27.0	27.4	24.6	25.3	25.1	25.8	26.2
	6H	26.3	26.9	26.8	27.3	27.9	24.6	25.2	25.1	25.6	26.2
	8H	26.5	27.0	27.0	27.5	28.0	24.6	25.1	25.1	25.6	26.1

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 2577.129 Located At Horizontal Angle = 160, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (160 - 340) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)