

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX9654HTHO35K120-480V_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] BX9654HTHO35K[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] 6244

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6244
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	23859	23156	22628
55	21659	20454	19551
65	18578	16697	14945
75	14386	11714	6926
85	7949	1942	1171

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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	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825
2.5	2449.038	2452.154	2450.525	2448.485	2434.082	2434.365	2441.022	2440.073	2440.370	2442.764
5.0	2447.876	2446.347	2446.814	2442.324	2426.207	2427.779	2436.107	2435.739	2434.804	2436.673
7.5	2434.861	2434.761	2436.305	2431.986	2415.500	2415.287	2423.686	2422.001	2419.465	2421.646
10.0	2414.905	2417.553	2418.856	2415.358	2400.699	2397.810	2403.999	2402.031	2400.048	2403.305
12.5	2396.861	2398.433	2396.621	2391.805	2376.637	2375.518	2382.953	2382.528	2381.678	2385.545
15.0	2372.628	2372.600	2369.881	2360.986	2346.172	2349.996	2357.021	2353.678	2355.378	2358.111
17.5	2336.810	2339.147	2339.246	2328.440	2315.821	2315.665	2324.106	2320.424	2323.001	2325.154
20.0	2301.813	2302.550	2302.337	2293.556	2281.617	2279.974	2285.894	2280.640	2285.356	2286.843
22.5	2260.061	2264.027	2261.364	2252.087	2239.793	2238.944	2242.952	2238.221	2243.363	2245.020
25.0	2217.019	2217.770	2216.835	2206.355	2194.019	2191.384	2194.543	2189.727	2191.370	2195.067
27.5	2172.661	2169.049	2164.192	2151.870	2142.465	2142.480	2140.993	2133.642	2135.908	2138.259
30.0	2114.451	2113.162	2105.826	2091.960	2080.460	2082.273	2083.179	2074.611	2076.650	2075.489
32.5	2043.678	2044.882	2039.161	2027.575	2013.002	2015.508	2011.642	2008.979	2005.198	2005.070
35.0	1965.215	1970.824	1960.811	1946.775	1937.074	1937.541	1930.035	1928.448	1924.001	1921.593
37.5	1882.773	1879.869	1870.918	1851.614	1845.113	1846.331	1839.632	1834.236	1830.809	1827.254
40.0	1786.691	1777.938	1770.573	1748.493	1742.559	1743.720	1735.775	1726.682	1723.269	1718.708
42.5	1679.378	1675.270	1664.620	1641.081	1638.730	1631.351	1624.142	1613.010	1609.710	1606.906
45.0	1568.793	1572.603	1554.078	1533.386	1528.358	1516.829	1507.142	1498.771	1490.401	1487.894
47.5	1463.392	1466.296	1444.244	1427.333	1420.110	1405.040	1394.291	1381.417	1378.457	1377.394
50.0	1358.642	1361.376	1345.018	1330.472	1324.807	1308.690	1290.504	1282.403	1273.905	1274.798
52.5	1268.792	1265.124	1247.647	1223.343	1215.157	1197.609	1178.022	1171.294	1161.975	1158.392
55.0	1155.205	1157.726	1135.235	1112.490	1100.819	1081.133	1061.262	1057.339	1047.708	1042.793
57.5	1049.733	1048.487	1022.285	1002.103	990.744	967.446	947.859	942.803	928.980	928.569
60.0	939.616	938.270	912.182	891.915	879.735	857.371	837.543	830.150	814.047	814.542
62.5	833.634	832.119	803.042	783.441	771.501	750.469	730.613	722.823	701.593	701.663
65.0	730.103	727.681	698.363	676.312	667.630	644.756	625.070	612.961	590.668	587.325
67.5	626.288	626.755	599.038	575.188	565.458	541.466	521.963	502.050	478.823	474.206
70.0	528.237	527.628	501.144	480.055	468.455	443.599	419.565	395.842	374.470	370.221
72.5	433.317	432.311	408.617	390.998	377.416	352.305	321.698	296.290	274.394	265.868
75.0	346.229	344.090	323.171	307.974	297.055	266.817	232.174	204.386	175.111	166.699
77.5	263.120	262.483	244.425	230.460	220.178	184.261	145.851	115.712	83.463	72.854
80.0	186.158	187.192	172.633	160.835	145.780	105.840	62.855	42.503	32.717	30.620
82.5	120.315	120.952	109.607	98.390	72.571	36.824	22.420	20.126	18.072	17.605
85.0	64.427	66.141	56.468	39.557	18.922	12.563	10.948	10.707	9.617	9.489
87.5	23.624	25.224	17.548	6.161	5.070	4.306	3.725	3.852	2.818	2.861
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	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825
2.5	2439.931	2440.894	2442.834	2435.809	2434.237	2451.502	2454.434	2453.159	2454.221	2453.159
5.0	2433.048	2434.719	2436.206	2428.558	2426.958	2445.639	2450.511	2446.772	2445.511	2446.772
7.5	2421.165	2424.947	2426.830	2421.009	2415.911	2435.583	2439.053	2437.424	2435.824	2437.424
10.0	2402.215	2407.611	2409.537	2402.852	2396.535	2418.998	2425.471	2424.720	2421.151	2424.720
12.5	2380.701	2383.137	2386.381	2381.976	2375.234	2398.504	2405.373	2402.682	2399.736	2402.682
15.0	2348.806	2353.820	2358.706	2355.633	2349.401	2372.458	2378.463	2375.688	2370.348	2375.688
17.5	2318.370	2322.194	2326.457	2324.729	2316.642	2341.243	2348.254	2343.141	2339.841	2343.141
20.0	2283.755	2284.634	2294.137	2287.650	2281.093	2304.873	2310.934	2307.833	2306.855	2307.833
22.5	2239.836	2241.536	2250.048	2243.901	2241.394	2264.522	2270.003	2269.961	2267.950	2269.961
25.0	2190.365	2190.917	2201.511	2198.353	2197.177	2217.019	2227.217	2221.764	2213.875	2221.764
27.5	2137.622	2133.288	2147.720	2147.281	2143.868	2160.452	2175.125	2166.953	2160.424	2166.953
30.0	2075.219	2070.461	2084.695	2085.629	2080.177	2098.773	2114.621	2101.718	2100.642	2101.718
32.5	2005.906	2000.623	2014.304	2011.415	2007.280	2024.488	2042.135	2025.946	2022.604	2025.946
35.0	1923.690	1914.710	1930.233	1928.548	1918.959	1937.541	1953.531	1936.889	1938.037	1936.889
37.5	1827.919	1817.099	1832.083	1835.128	1825.313	1841.927	1857.534	1844.547	1843.669	1844.547
40.0	1719.558	1709.899	1723.722	1730.096	1729.090	1746.185	1760.744	1751.751	1748.876	1751.751
42.5	1607.656	1600.532	1617.797	1625.403	1627.216	1648.488	1665.031	1654.408	1655.003	1654.408
45.0	1494.409	1486.747	1510.314	1519.109	1519.747	1545.028	1563.864	1552.916	1553.285	1552.916
47.5	1377.706	1381.020	1399.319	1411.626	1419.756	1436.992	1457.302	1447.133	1448.266	1447.133
50.0	1276.964	1278.041	1298.195	1319.142	1324.269	1336.251	1358.628	1353.402	1353.317	1353.402
52.5	1161.508	1165.162	1188.743	1204.153	1214.463	1236.614	1257.320	1249.644	1249.290	1249.644
55.0	1046.249	1052.665	1077.210	1089.248	1101.102	1123.636	1145.914	1140.235	1140.164	1140.235
57.5	933.228	937.916	961.809	974.514	987.770	1011.776	1030.698	1030.613	1027.186	1030.613
60.0	818.834	826.227	849.313	862.909	875.826	899.577	918.499	921.629	921.020	921.629
62.5	705.870	715.600	737.892	752.523	764.320	789.587	809.798	812.645	814.160	812.645
65.0	590.767	606.431	629.220	643.170	656.158	681.155	702.216	705.785	706.111	705.785
67.5	478.738	492.929	523.365	540.290	551.536	575.825	597.636	600.950	601.205	600.950
70.0	375.277	386.381	418.318	439.280	453.896	478.483	498.736	499.741	503.183	499.741
72.5	271.165	284.945	316.784	347.008	362.431	387.641	404.609	404.552	409.367	404.552
75.0	173.624	190.223	226.339	258.461	279.337	302.408	315.622	315.877	319.092	315.877
77.5	80.743	99.793	138.613	172.633	201.030	222.982	234.129	233.109	233.959	233.109
80.0	32.348	34.600	52.885	92.187	124.025	151.473	161.147	158.611	160.226	158.611

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CANDELA TABULATION - (Cont.)

82.5	17.562	17.831	20.366	26.117	50.789	86.706	97.682	94.297	94.807	94.297
85.0	9.390	9.206	9.801	9.985	11.840	28.453	44.415	43.537	43.424	43.537
87.5	2.479	2.592	2.719	2.733	2.479	3.456	10.636	9.291	10.466	9.291
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	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825
2.5	2454.434	2451.502	2434.237	2435.809	2442.834	2440.894	2439.931	2442.764	2440.370	2440.073
5.0	2450.511	2445.639	2426.958	2428.558	2436.206	2434.719	2433.048	2436.673	2434.804	2435.739
7.5	2439.053	2435.583	2415.911	2421.009	2426.830	2424.947	2421.165	2421.646	2419.465	2422.001
10.0	2425.471	2418.998	2396.535	2402.852	2409.537	2407.611	2402.215	2403.305	2400.048	2402.031
12.5	2405.373	2398.504	2375.234	2381.976	2386.381	2383.137	2380.701	2385.545	2381.678	2382.528
15.0	2378.463	2372.458	2349.401	2355.633	2358.706	2353.820	2348.806	2358.111	2355.378	2353.678
17.5	2348.254	2341.243	2316.642	2324.729	2326.457	2322.194	2318.370	2325.154	2323.001	2320.424
20.0	2310.934	2304.873	2281.093	2287.650	2294.137	2284.634	2283.755	2286.843	2285.356	2280.640
22.5	2270.003	2264.522	2241.394	2243.901	2250.048	2241.536	2239.836	2245.020	2243.363	2238.221
25.0	2227.217	2217.019	2197.177	2198.353	2201.511	2190.917	2190.365	2195.067	2191.370	2189.727
27.5	2175.125	2160.452	2143.868	2147.281	2147.720	2133.288	2137.622	2138.259	2135.908	2133.642

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CANDELA TABULATION - (Cont.)

30.0	2114.621	2098.773	2080.177	2085.629	2084.695	2070.461	2075.219	2075.489	2076.650	2074.611
32.5	2042.135	2024.488	2007.280	2011.415	2014.304	2000.623	2005.906	2005.070	2005.198	2008.979
35.0	1953.531	1937.541	1918.959	1928.548	1930.233	1914.710	1923.690	1921.593	1924.001	1928.448
37.5	1857.534	1841.927	1825.313	1835.128	1832.083	1817.099	1827.919	1827.254	1830.809	1834.236
40.0	1760.744	1746.185	1729.090	1730.096	1723.722	1709.899	1719.558	1718.708	1723.269	1726.682
42.5	1665.031	1648.488	1627.216	1625.403	1617.797	1600.532	1607.656	1606.906	1609.710	1613.010
45.0	1563.864	1545.028	1519.747	1519.109	1510.314	1486.747	1494.409	1487.894	1490.401	1498.771
47.5	1457.302	1436.992	1419.756	1411.626	1399.319	1381.020	1377.706	1377.394	1378.457	1381.417
50.0	1358.628	1336.251	1324.269	1319.142	1298.195	1278.041	1276.964	1274.798	1273.905	1282.403
52.5	1257.320	1236.614	1214.463	1204.153	1188.743	1165.162	1161.508	1158.392	1161.975	1171.294
55.0	1145.914	1123.636	1101.102	1089.248	1077.210	1052.665	1046.249	1042.793	1047.708	1057.339
57.5	1030.698	1011.776	987.770	974.514	961.809	937.916	933.228	928.569	928.980	942.803
60.0	918.499	899.577	875.826	862.909	849.313	826.227	818.834	814.542	814.047	830.150
62.5	809.798	789.587	764.320	752.523	737.892	715.600	705.870	701.663	701.593	722.823
65.0	702.216	681.155	656.158	643.170	629.220	606.431	590.767	587.325	590.668	612.961
67.5	597.636	575.825	551.536	540.290	523.365	492.929	478.738	474.206	478.823	502.050
70.0	498.736	478.483	453.896	439.280	418.318	386.381	375.277	370.221	374.470	395.842
72.5	404.609	387.641	362.431	347.008	316.784	284.945	271.165	265.868	274.394	296.290
75.0	315.622	302.408	279.337	258.461	226.339	190.223	173.624	166.699	175.111	204.386
77.5	234.129	222.982	201.030	172.633	138.613	99.793	80.743	72.854	83.463	115.712
80.0	161.147	151.473	124.025	92.187	52.885	34.600	32.348	30.620	32.717	42.503
82.5	97.682	86.706	50.789	26.117	20.366	17.831	17.562	17.605	18.072	20.126
85.0	44.415	28.453	11.840	9.985	9.801	9.206	9.390	9.489	9.617	10.707
87.5	10.636	3.456	2.479	2.733	2.719	2.592	2.479	2.861	2.818	3.852
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	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825	2448.825
2.5	2441.022	2434.365	2434.082	2448.485	2450.525	2452.154	2449.038
5.0	2436.107	2427.779	2426.207	2442.324	2446.814	2446.347	2447.876
7.5	2423.686	2415.287	2415.500	2431.986	2436.305	2434.761	2434.861
10.0	2403.999	2397.810	2400.699	2415.358	2418.856	2417.553	2414.905
12.5	2382.953	2375.518	2376.637	2391.805	2396.621	2398.433	2396.861
15.0	2357.021	2349.996	2346.172	2360.986	2369.881	2372.600	2372.628
17.5	2324.106	2315.665	2315.821	2328.440	2339.246	2339.147	2336.810
20.0	2285.894	2279.974	2281.617	2293.556	2302.337	2302.550	2301.813
22.5	2242.952	2238.944	2239.793	2252.087	2261.364	2264.027	2260.061
25.0	2194.543	2191.384	2194.019	2206.355	2216.835	2217.770	2217.019
27.5	2140.993	2142.480	2142.465	2151.870	2164.192	2169.049	2172.661
30.0	2083.179	2082.273	2080.460	2091.960	2105.826	2113.162	2114.451
32.5	2011.642	2015.508	2013.002	2027.575	2039.161	2044.882	2043.678
35.0	1930.035	1937.541	1937.074	1946.775	1960.811	1970.824	1965.215
37.5	1839.632	1846.331	1845.113	1851.614	1870.918	1879.869	1882.773
40.0	1735.775	1743.720	1742.559	1748.493	1770.573	1777.938	1786.691
42.5	1624.142	1631.351	1638.730	1641.081	1664.620	1675.270	1679.378
45.0	1507.142	1516.829	1528.358	1533.386	1554.078	1572.603	1568.793
47.5	1394.291	1405.040	1420.110	1427.333	1444.244	1466.296	1463.392
50.0	1290.504	1308.690	1324.807	1330.472	1345.018	1361.376	1358.642
52.5	1178.022	1197.609	1215.157	1223.343	1247.647	1265.124	1268.792
55.0	1061.262	1081.133	1100.819	1112.490	1135.235	1157.726	1155.205
57.5	947.859	967.446	990.744	1002.103	1022.285	1048.487	1049.733
60.0	837.543	857.371	879.735	891.915	912.182	938.270	939.616
62.5	730.613	750.469	771.501	783.441	803.042	832.119	833.634
65.0	625.070	644.756	667.630	676.312	698.363	727.681	730.103
67.5	521.963	541.466	565.458	575.188	599.038	626.755	626.288
70.0	419.565	443.599	468.455	480.055	501.144	527.628	528.237
72.5	321.698	352.305	377.416	390.998	408.617	432.311	433.317
75.0	232.174	266.817	297.055	307.974	323.171	344.090	346.229
77.5	145.851	184.261	220.178	230.460	244.425	262.483	263.120
80.0	62.855	105.840	145.780	160.835	172.633	187.192	186.158
82.5	22.420	36.824	72.571	98.390	109.607	120.952	120.315
85.0	10.948	12.563	18.922	39.557	56.468	66.141	64.427
87.5	3.725	4.306	5.070	6.161	17.548	25.224	23.624
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	898.20	N.A.	14.40
0-30	1913.09	N.A.	30.60
0-40	3120.05	N.A.	50.00
0-60	5275.75	N.A.	84.50
0-80	6204.62	N.A.	99.40
0-90	6243.51	N.A.	100.00
10-90	6011.7	N.A.	96.30
20-40	2221.85	N.A.	35.60
20-50	3398.9	N.A.	54.40
40-70	2803.67	N.A.	44.90
60-80	928.86	N.A.	14.90
70-80	280.89	N.A.	4.50
80-90	38.89	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	6243.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	231.81
10-20	666.39
20-30	1014.89
30-40	1206.96
40-50	1177.05
50-60	978.65
60-70	647.97
70-80	280.89
80-90	38.89
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

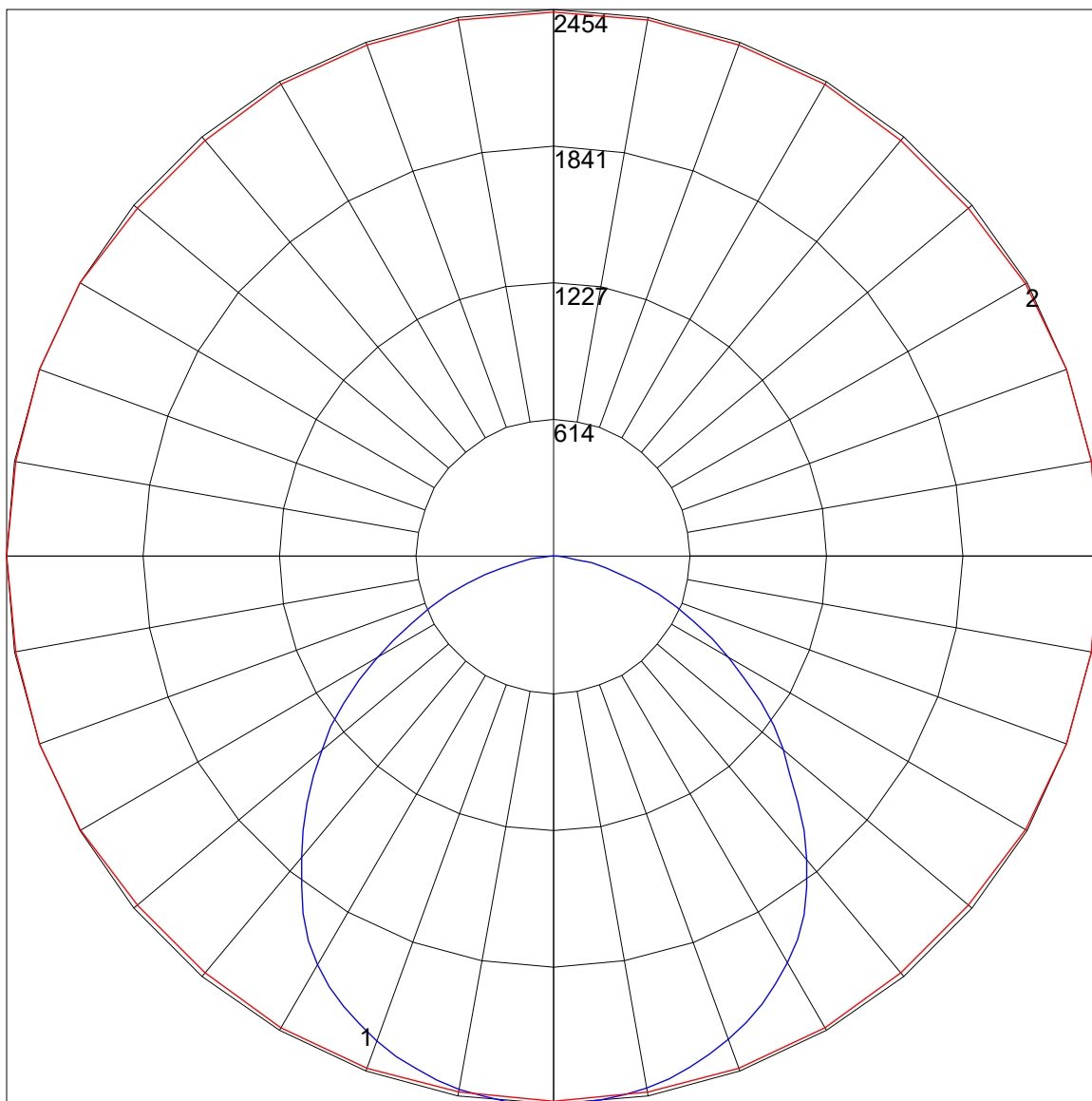
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UGR TABLE - CORRECTED

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	22.8	24.3	23.1	24.6	25.0	22.1	23.7	22.5	24.0	24.3
	3H	24.3	25.7	24.7	26.1	26.4	23.2	24.6	23.6	25.0	25.3
	4H	24.9	26.2	25.3	26.5	26.9	23.4	24.7	23.8	25.1	25.5
	6H	25.2	26.4	25.6	26.8	27.2	23.4	24.6	23.8	25.0	25.4
	8H	25.3	26.4	25.7	26.8	27.2	23.4	24.5	23.8	24.9	25.3
	12H	25.3	26.4	25.7	26.8	27.2	23.3	24.5	23.8	24.8	25.3
4H	2H	23.2	24.5	23.6	24.9	25.3	22.7	24.0	23.1	24.4	24.7
	3H	24.9	26.0	25.4	26.4	26.8	24.0	25.1	24.4	25.5	25.9
	4H	25.6	26.6	26.0	27.0	27.4	24.2	25.2	24.7	25.6	26.1
	6H	26.0	26.9	26.5	27.3	27.8	24.3	25.1	24.7	25.5	26.0
	8H	26.1	26.9	26.6	27.4	27.8	24.2	25.0	24.7	25.5	25.9
	12H	26.2	26.9	26.7	27.4	27.9	24.2	24.9	24.7	25.4	25.8
8H	4H	25.7	26.5	26.2	26.9	27.4	24.5	25.3	24.9	25.7	26.2
	6H	26.2	26.9	26.7	27.4	27.8	24.5	25.1	25.0	25.6	26.1
	8H	26.4	27.0	26.9	27.5	28.0	24.4	25.0	24.9	25.5	26.0
	12H	26.5	27.0	27.0	27.5	28.1	24.4	24.9	24.9	25.4	26.0
12H	4H	25.7	26.4	26.2	26.9	27.3	24.5	25.2	25.0	25.7	26.1
	6H	26.2	26.8	26.7	27.2	27.8	24.5	25.1	25.0	25.5	26.1
	8H	26.4	26.9	26.9	27.4	28.0	24.5	25.0	25.0	25.5	26.0

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 2454.434 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.)