

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX9654HTLO5K120-480V_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] BX9654HTLO5K[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] 3934

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3934
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	30
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	15031	14589	14256
55	13645	12887	12318
65	11705	10520	9416
75	9063	7380	4364
85	5008	1224	738

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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	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814
2.5	1542.947	1544.910	1543.884	1542.599	1533.525	1533.703	1537.897	1537.299	1537.487	1538.994
5.0	1542.216	1541.252	1541.546	1538.718	1528.564	1529.554	1534.801	1534.569	1533.980	1535.158
7.5	1534.015	1533.953	1534.926	1532.204	1521.818	1521.684	1526.975	1525.913	1524.316	1525.690
10.0	1521.443	1523.111	1523.932	1521.728	1512.493	1510.673	1514.572	1513.332	1512.083	1514.135
12.5	1510.075	1511.065	1509.923	1506.890	1497.333	1496.628	1501.313	1501.045	1500.510	1502.945
15.0	1494.808	1494.790	1493.077	1487.473	1478.140	1480.549	1484.975	1482.869	1483.940	1485.662
17.5	1472.241	1473.714	1473.776	1466.968	1459.018	1458.919	1464.238	1461.918	1463.542	1464.898
20.0	1450.193	1450.657	1450.523	1444.991	1437.469	1436.434	1440.163	1436.853	1439.824	1440.761
22.5	1423.888	1426.386	1424.709	1418.864	1411.119	1410.584	1413.109	1410.128	1413.367	1414.412
25.0	1396.771	1397.244	1396.655	1390.052	1382.280	1380.620	1382.610	1379.576	1380.611	1382.940
27.5	1368.824	1366.549	1363.488	1355.725	1349.800	1349.809	1348.872	1344.241	1345.669	1347.150
30.0	1332.150	1331.338	1326.716	1317.981	1310.735	1311.877	1312.448	1307.050	1308.335	1307.603
32.5	1287.562	1288.321	1284.716	1277.417	1268.235	1269.814	1267.378	1265.701	1263.318	1263.238
35.0	1238.129	1241.662	1235.354	1226.511	1220.399	1220.693	1215.964	1214.965	1212.163	1210.646
37.5	1186.188	1184.359	1178.719	1166.557	1162.462	1163.229	1159.009	1155.609	1153.449	1151.210
40.0	1125.654	1120.140	1115.500	1101.589	1097.850	1098.582	1093.576	1087.848	1085.697	1082.824
42.5	1058.045	1055.457	1048.747	1033.917	1032.436	1027.787	1023.245	1016.232	1014.153	1012.386
45.0	988.374	990.774	979.103	966.066	962.899	955.635	949.532	944.259	938.985	937.406
47.5	921.969	923.798	909.905	899.251	894.700	885.206	878.434	870.323	868.458	867.789
50.0	855.974	857.697	847.391	838.227	834.657	824.503	813.046	807.942	802.588	803.150
52.5	799.367	797.056	786.045	770.733	765.576	754.520	742.179	737.941	732.070	729.812
55.0	727.805	729.393	715.223	700.893	693.540	681.137	668.618	666.147	660.079	656.983
57.5	661.355	660.570	644.062	631.347	624.191	609.512	597.172	593.986	585.277	585.019
60.0	591.979	591.131	574.695	561.926	554.252	540.163	527.671	523.013	512.867	513.180
62.5	525.208	524.253	505.934	493.585	486.063	472.812	460.302	455.394	442.019	442.063
65.0	459.981	458.455	439.984	426.091	420.621	406.211	393.808	386.179	372.134	370.028
67.5	394.575	394.870	377.407	362.381	356.251	341.135	328.848	316.303	301.669	298.760
70.0	332.801	332.417	315.731	302.445	295.137	279.477	264.335	249.389	235.924	233.247
72.5	272.999	272.366	257.437	246.337	237.780	221.960	202.677	186.669	172.874	167.503
75.0	218.132	216.784	203.605	194.031	187.151	168.100	146.275	128.768	110.324	105.024
77.5	165.771	165.370	153.993	145.195	138.717	116.088	91.889	72.901	52.583	45.900
80.0	117.284	117.935	108.762	101.330	91.844	66.682	39.600	26.778	20.612	19.292
82.5	75.801	76.202	69.055	61.988	45.721	23.200	14.125	12.680	11.386	11.091
85.0	40.591	41.670	35.576	24.922	11.921	7.915	6.897	6.746	6.059	5.978
87.5	14.884	15.892	11.056	3.882	3.194	2.713	2.347	2.427	1.776	1.802
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	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814
2.5	1537.210	1537.817	1539.039	1534.613	1533.623	1544.500	1546.347	1545.544	1546.213	1545.544
5.0	1532.873	1533.926	1534.863	1530.045	1529.036	1540.806	1543.875	1541.520	1540.725	1541.520
7.5	1525.387	1527.769	1528.956	1525.289	1522.076	1534.471	1536.657	1535.630	1534.622	1535.630
10.0	1513.448	1516.848	1518.061	1513.849	1509.870	1524.022	1528.099	1527.627	1525.378	1527.627
12.5	1499.894	1501.429	1503.472	1500.697	1496.450	1511.110	1515.438	1513.742	1511.886	1513.742
15.0	1479.799	1482.958	1486.036	1484.100	1480.174	1494.701	1498.484	1496.735	1493.371	1496.735
17.5	1460.624	1463.033	1465.719	1464.630	1459.535	1475.034	1479.451	1476.230	1474.151	1476.230
20.0	1438.816	1439.369	1445.357	1441.270	1437.138	1452.120	1455.939	1453.985	1453.369	1453.985
22.5	1411.146	1412.216	1417.579	1413.707	1412.127	1426.699	1430.152	1430.125	1428.858	1430.125
25.0	1379.978	1380.326	1387.000	1385.010	1384.270	1396.771	1403.195	1399.760	1394.790	1399.760
27.5	1346.748	1344.018	1353.111	1352.834	1350.683	1361.132	1370.377	1365.228	1361.114	1365.228
30.0	1307.434	1304.436	1313.403	1313.992	1310.557	1322.273	1332.258	1324.129	1323.450	1324.129
32.5	1263.765	1260.436	1269.056	1267.235	1264.630	1275.472	1286.590	1276.391	1274.285	1276.391
35.0	1211.966	1206.309	1216.089	1215.027	1208.986	1220.693	1230.767	1220.283	1221.005	1220.283
37.5	1151.629	1144.812	1154.252	1156.171	1149.987	1160.454	1170.287	1162.105	1161.552	1162.105
40.0	1083.359	1077.274	1085.983	1089.998	1089.364	1100.135	1109.307	1103.641	1101.830	1103.641
42.5	1012.859	1008.370	1019.248	1024.039	1025.181	1038.584	1049.006	1042.313	1042.688	1042.313
45.0	941.510	936.683	951.531	957.072	957.474	973.401	985.269	978.371	978.603	978.371
47.5	867.985	870.073	881.601	889.355	894.477	905.336	918.132	911.725	912.439	911.725
50.0	804.516	805.194	817.891	831.088	834.318	841.867	855.966	852.673	852.619	852.673
52.5	731.775	734.077	748.934	758.642	765.138	779.094	792.139	787.303	787.080	787.303
55.0	659.160	663.202	678.666	686.250	693.719	707.915	721.951	718.373	718.328	718.373
57.5	587.954	590.908	605.961	613.965	622.317	637.441	649.362	649.309	647.150	649.309
60.0	515.883	520.541	535.086	543.652	551.789	566.753	578.674	580.646	580.263	580.646
62.5	444.713	450.844	464.888	474.106	481.539	497.457	510.190	511.984	512.939	511.984
65.0	372.196	382.065	396.422	405.211	413.394	429.143	442.411	444.660	444.865	444.660
67.5	301.615	310.556	329.732	340.395	347.479	362.782	376.524	378.612	378.772	378.612
70.0	236.433	243.428	263.550	276.756	285.964	301.455	314.215	314.848	317.016	314.848
72.5	170.840	179.522	199.581	218.622	228.340	244.223	254.912	254.877	257.910	254.877
75.0	109.387	119.845	142.598	162.836	175.988	190.524	198.849	199.010	201.035	199.010
77.5	50.870	62.871	87.329	108.762	126.653	140.484	147.506	146.864	147.399	146.864
80.0	20.380	21.799	33.318	58.080	78.139	95.431	101.526	99.929	100.946	99.929

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CANDELA TABULATION - (Cont.)

82.5	11.065	11.234	12.831	16.454	31.998	54.627	61.542	59.409	59.731	59.409
85.0	5.916	5.800	6.175	6.291	7.460	17.926	27.983	27.429	27.358	27.429
87.5	1.562	1.633	1.713	1.722	1.562	2.177	6.701	5.853	6.594	5.853
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	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814
2.5	1546.347	1544.500	1533.623	1534.613	1539.039	1537.817	1537.210	1538.994	1537.487	1537.299
5.0	1543.875	1540.806	1529.036	1530.045	1534.863	1533.926	1532.873	1535.158	1533.980	1534.569
7.5	1536.657	1534.471	1522.076	1525.289	1528.956	1527.769	1525.387	1525.690	1524.316	1525.913
10.0	1528.099	1524.022	1509.870	1513.849	1518.061	1516.848	1513.448	1514.135	1512.083	1513.332
12.5	1515.438	1511.110	1496.450	1500.697	1503.472	1501.429	1499.894	1502.945	1500.510	1501.045
15.0	1498.484	1494.701	1480.174	1484.100	1486.036	1482.958	1479.799	1485.662	1483.940	1482.869
17.5	1479.451	1475.034	1459.535	1464.630	1465.719	1463.033	1460.624	1464.898	1463.542	1461.918
20.0	1455.939	1452.120	1437.138	1441.270	1445.357	1439.369	1438.816	1440.761	1439.824	1436.853
22.5	1430.152	1426.699	1412.127	1413.707	1417.579	1412.216	1411.146	1414.412	1413.367	1410.128
25.0	1403.195	1396.771	1384.270	1385.010	1387.000	1380.326	1379.978	1382.940	1380.611	1379.576
27.5	1370.377	1361.132	1350.683	1352.834	1353.111	1344.018	1346.748	1347.150	1345.669	1344.241

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CANDELA TABULATION - (Cont.)

30.0	1332.258	1322.273	1310.557	1313.992	1313.403	1304.436	1307.434	1307.603	1308.335	1307.050
32.5	1286.590	1275.472	1264.630	1267.235	1269.056	1260.436	1263.765	1263.238	1263.318	1265.701
35.0	1230.767	1220.693	1208.986	1215.027	1216.089	1206.309	1211.966	1210.646	1212.163	1214.965
37.5	1170.287	1160.454	1149.987	1156.171	1154.252	1144.812	1151.629	1151.210	1153.449	1155.609
40.0	1109.307	1100.135	1089.364	1089.998	1085.983	1077.274	1083.359	1082.824	1085.697	1087.848
42.5	1049.006	1038.584	1025.181	1024.039	1019.248	1008.370	1012.859	1012.386	1014.153	1016.232
45.0	985.269	973.401	957.474	957.072	951.531	936.683	941.510	937.406	938.985	944.259
47.5	918.132	905.336	894.477	889.355	881.601	870.073	867.985	867.789	868.458	870.323
50.0	855.966	841.867	834.318	831.088	817.891	805.194	804.516	803.150	802.588	807.942
52.5	792.139	779.094	765.138	758.642	748.934	734.077	731.775	729.812	732.070	737.941
55.0	721.951	707.915	693.719	686.250	678.666	663.202	659.160	656.983	660.079	666.147
57.5	649.362	637.441	622.317	613.965	605.961	590.908	587.954	585.019	585.277	593.986
60.0	578.674	566.753	551.789	543.652	535.086	520.541	515.883	513.180	512.867	523.013
62.5	510.190	497.457	481.539	474.106	464.888	450.844	444.713	442.063	442.019	455.394
65.0	442.411	429.143	413.394	405.211	396.422	382.065	372.196	370.028	372.134	386.179
67.5	376.524	362.782	347.479	340.395	329.732	310.556	301.615	298.760	301.669	316.303
70.0	314.215	301.455	285.964	276.756	263.550	243.428	236.433	233.247	235.924	249.389
72.5	254.912	244.223	228.340	218.622	199.581	179.522	170.840	167.503	172.874	186.669
75.0	198.849	190.524	175.988	162.836	142.598	119.845	109.387	105.024	110.324	128.768
77.5	147.506	140.484	126.653	108.762	87.329	62.871	50.870	45.900	52.583	72.901
80.0	101.526	95.431	78.139	58.080	33.318	21.799	20.380	19.292	20.612	26.778
82.5	61.542	54.627	31.998	16.454	12.831	11.234	11.065	11.091	11.386	12.680
85.0	27.983	17.926	7.460	6.291	6.175	5.800	5.916	5.978	6.059	6.746
87.5	6.701	2.177	1.562	1.722	1.713	1.633	1.562	1.802	1.776	2.427
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	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814	1542.814
2.5	1537.897	1533.703	1533.525	1542.599	1543.884	1544.910	1542.947
5.0	1534.801	1529.554	1528.564	1538.718	1541.546	1541.252	1542.216
7.5	1526.975	1521.684	1521.818	1532.204	1534.926	1533.953	1534.015
10.0	1514.572	1510.673	1512.493	1521.728	1523.932	1523.111	1521.443
12.5	1501.313	1496.628	1497.333	1506.890	1509.923	1511.065	1510.075
15.0	1484.975	1480.549	1478.140	1487.473	1493.077	1494.790	1494.808
17.5	1464.238	1458.919	1459.018	1466.968	1473.776	1473.714	1472.241
20.0	1440.163	1436.434	1437.469	1444.991	1450.523	1450.657	1450.193
22.5	1413.109	1410.584	1411.119	1418.864	1424.709	1426.386	1423.888
25.0	1382.610	1380.620	1382.280	1390.052	1396.655	1397.244	1396.771
27.5	1348.872	1349.809	1349.800	1355.725	1363.488	1366.549	1368.824
30.0	1312.448	1311.877	1310.735	1317.981	1326.716	1331.338	1332.150
32.5	1267.378	1269.814	1268.235	1277.417	1284.716	1288.321	1287.562
35.0	1215.964	1220.693	1220.399	1226.511	1235.354	1241.662	1238.129
37.5	1159.009	1163.229	1162.462	1166.557	1178.719	1184.359	1186.188
40.0	1093.576	1098.582	1097.850	1101.589	1115.500	1120.140	1125.654
42.5	1023.245	1027.787	1032.436	1033.917	1048.747	1055.457	1058.045
45.0	949.532	955.635	962.899	966.066	979.103	990.774	988.374
47.5	878.434	885.206	894.700	899.251	909.905	923.798	921.969
50.0	813.046	824.503	834.657	838.227	847.391	857.697	855.974
52.5	742.179	754.520	765.576	770.733	786.045	797.056	799.367
55.0	668.618	681.137	693.540	700.893	715.223	729.393	727.805
57.5	597.172	609.512	624.191	631.347	644.062	660.570	661.355
60.0	527.671	540.163	554.252	561.926	574.695	591.131	591.979
62.5	460.302	472.812	486.063	493.585	505.934	524.253	525.208
65.0	393.808	406.211	420.621	426.091	439.984	458.455	459.981
67.5	328.848	341.135	356.251	362.381	377.407	394.870	394.575
70.0	264.335	279.477	295.137	302.445	315.731	332.417	332.801
72.5	202.677	221.960	237.780	246.337	257.437	272.366	272.999
75.0	146.275	168.100	187.151	194.031	203.605	216.784	218.132
77.5	91.889	116.088	138.717	145.195	153.993	165.370	165.771
80.0	39.600	66.682	91.844	101.330	108.762	117.935	117.284
82.5	14.125	23.200	45.721	61.988	69.055	76.202	75.801
85.0	6.897	7.915	11.921	24.922	35.576	41.670	40.591
87.5	2.347	2.713	3.194	3.882	11.056	15.892	14.884
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	565.89	N.A.	14.40
0-30	1205.29	N.A.	30.60
0-40	1965.7	N.A.	50.00
0-60	3323.84	N.A.	84.50
0-80	3909.04	N.A.	99.40
0-90	3933.55	N.A.	100.00
10-90	3787.5	N.A.	96.30
20-40	1399.81	N.A.	35.60
20-50	2141.38	N.A.	54.40
40-70	1766.37	N.A.	44.90
60-80	585.21	N.A.	14.90
70-80	176.97	N.A.	4.50
80-90	24.50	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	3933.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.05
10-20	419.84
20-30	639.40
30-40	760.41
40-50	741.57
50-60	616.57
60-70	408.24
70-80	176.97
80-90	24.50
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

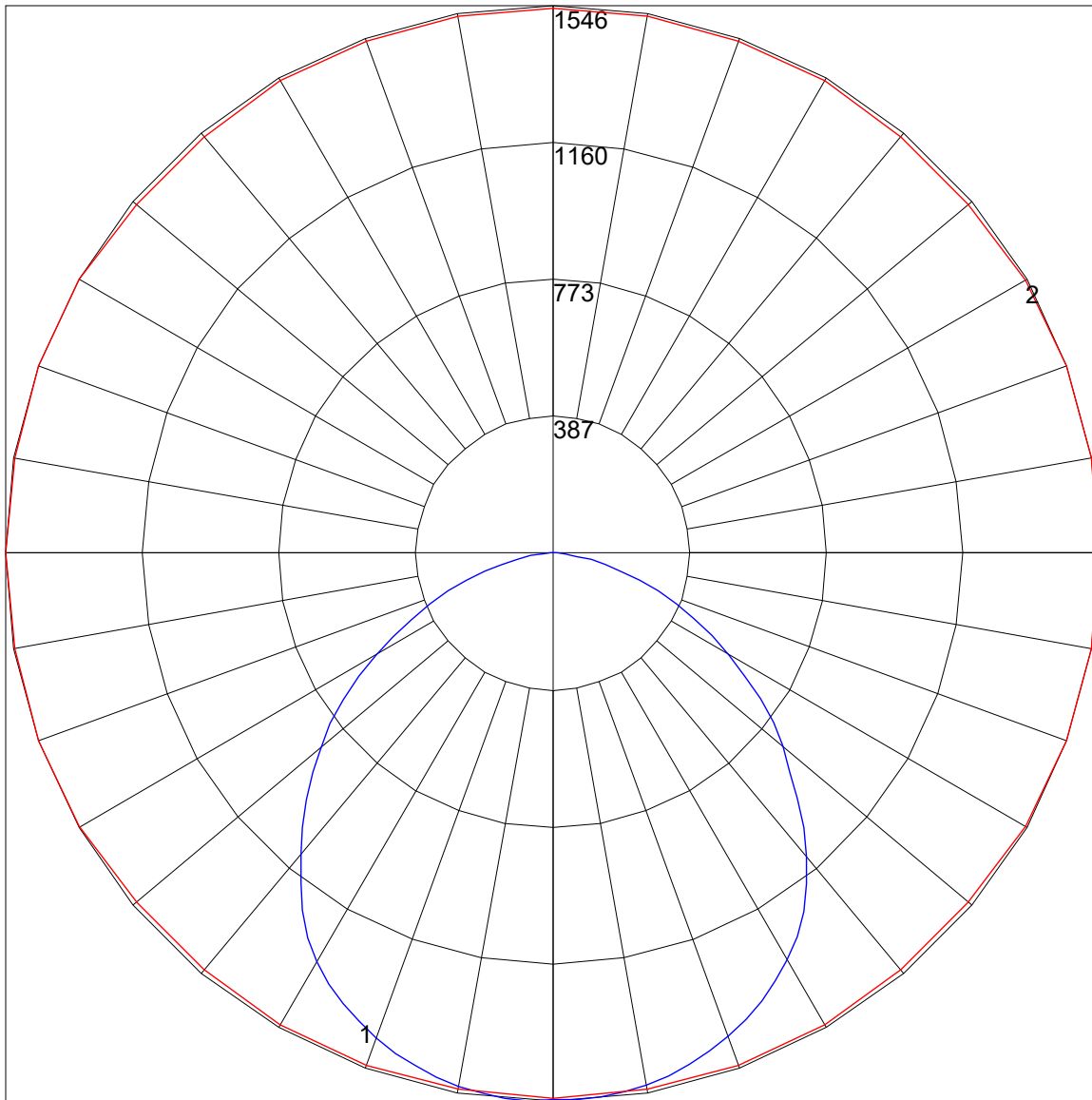
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UGR TABLE - CORRECTED

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	21.2	22.7	21.5	23.0	23.4	20.5	22.1	20.9	22.4	22.7
	3H	22.7	24.1	23.1	24.5	24.8	21.6	23.0	22.0	23.4	23.7
	4H	23.3	24.6	23.7	24.9	25.3	21.8	23.1	22.2	23.5	23.9
	6H	23.6	24.8	24.0	25.2	25.6	21.8	23.0	22.2	23.4	23.8
	8H	23.7	24.8	24.1	25.2	25.6	21.8	22.9	22.2	23.3	23.7
	12H	23.7	24.8	24.1	25.2	25.6	21.7	22.9	22.2	23.2	23.7
4H	2H	21.6	22.9	22.0	23.3	23.7	21.1	22.4	21.5	22.8	23.1
	3H	23.3	24.4	23.8	24.8	25.2	22.4	23.5	22.8	23.9	24.3
	4H	24.0	25.0	24.4	25.4	25.8	22.6	23.6	23.1	24.0	24.5
	6H	24.4	25.3	24.9	25.7	26.2	22.7	23.5	23.1	23.9	24.4
	8H	24.5	25.3	25.0	25.8	26.2	22.6	23.4	23.1	23.9	24.3
	12H	24.6	25.3	25.1	25.8	26.3	22.6	23.3	23.1	23.8	24.2
8H	4H	24.1	24.9	24.6	25.3	25.8	22.9	23.7	23.3	24.1	24.6
	6H	24.6	25.3	25.1	25.8	26.2	22.9	23.5	23.4	24.0	24.5
	8H	24.8	25.4	25.3	25.9	26.4	22.8	23.4	23.3	23.9	24.4
	12H	24.9	25.4	25.4	25.9	26.5	22.8	23.3	23.3	23.8	24.4
12H	4H	24.1	24.8	24.6	25.3	25.7	22.9	23.6	23.4	24.1	24.5
	6H	24.6	25.2	25.1	25.6	26.2	22.9	23.5	23.4	23.9	24.5
	8H	24.8	25.3	25.3	25.8	26.3	22.9	23.4	23.4	23.9	24.4

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 1546.347 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.)