

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BX9654HTLO4K120-480V_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] BX9654HTLO4K[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] 4026.8

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4027
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	15389	14935	14595
55	13970	13193	12610
65	11983	10770	9639
75	9279	7556	4467
85	5127	1253	755

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469
2.5	1579.606	1581.616	1580.565	1579.250	1569.959	1570.142	1574.436	1573.823	1574.015	1575.559
5.0	1578.857	1577.870	1578.172	1575.276	1564.880	1565.894	1571.266	1571.028	1570.425	1571.631
7.5	1570.462	1570.398	1571.394	1568.607	1557.974	1557.837	1563.254	1562.167	1560.532	1561.939
10.0	1557.591	1559.299	1560.139	1557.883	1548.428	1546.565	1550.557	1549.287	1548.008	1550.109
12.5	1545.953	1546.967	1545.797	1542.691	1532.908	1532.186	1536.982	1536.708	1536.160	1538.654
15.0	1530.323	1530.304	1528.550	1522.814	1513.258	1515.725	1520.256	1518.100	1519.196	1520.959
17.5	1507.220	1508.727	1508.791	1501.821	1493.682	1493.582	1499.026	1496.651	1498.314	1499.702
20.0	1484.648	1485.123	1484.986	1479.322	1471.621	1470.561	1474.380	1470.991	1474.033	1474.992
22.5	1457.718	1460.275	1458.558	1452.575	1444.645	1444.097	1446.683	1443.631	1446.947	1448.016
25.0	1429.956	1430.441	1429.838	1423.078	1415.121	1413.422	1415.459	1412.353	1413.413	1415.797
27.5	1401.346	1399.016	1395.883	1387.935	1381.870	1381.879	1380.920	1376.179	1377.640	1379.157
30.0	1363.801	1362.969	1358.237	1349.294	1341.877	1343.046	1343.631	1338.104	1339.419	1338.670
32.5	1318.153	1318.930	1315.239	1307.767	1298.367	1299.984	1297.490	1295.772	1293.333	1293.251
35.0	1267.545	1271.163	1264.704	1255.651	1249.394	1249.695	1244.854	1243.831	1240.962	1239.409
37.5	1214.370	1212.498	1206.724	1194.273	1190.080	1190.866	1186.545	1183.065	1180.854	1178.561
40.0	1152.399	1146.753	1142.003	1127.761	1123.934	1124.683	1119.558	1113.694	1111.492	1108.551
42.5	1083.183	1080.533	1073.664	1058.482	1056.965	1052.206	1047.556	1040.376	1038.248	1036.439
45.0	1011.857	1014.314	1002.365	989.019	985.776	978.340	972.092	966.693	961.294	959.677
47.5	943.874	945.747	931.523	920.616	915.957	906.238	899.304	891.001	889.091	888.406
50.0	876.311	878.074	867.524	858.142	854.488	844.092	832.363	827.138	821.657	822.232
52.5	818.359	815.993	804.720	789.045	783.765	772.446	759.813	755.474	749.463	747.152
55.0	745.096	746.722	732.216	717.545	710.018	697.320	684.504	681.973	675.762	672.592
57.5	677.068	676.264	659.364	646.347	639.021	623.994	611.360	608.099	599.183	598.918
60.0	606.043	605.175	588.349	575.277	567.421	552.996	540.207	535.439	525.052	525.372
62.5	537.686	536.709	517.955	505.312	497.611	484.045	471.238	466.214	452.521	452.566
65.0	470.909	469.347	450.438	436.215	430.615	415.862	403.164	395.354	380.975	378.819
67.5	403.950	404.251	386.374	370.991	364.715	349.240	336.661	323.817	308.836	305.858
70.0	340.708	340.315	323.233	309.631	302.149	286.117	270.615	255.314	241.529	238.789
72.5	279.485	278.837	263.554	252.190	243.429	227.233	207.492	191.104	176.981	171.482
75.0	223.314	221.935	208.442	198.641	191.597	172.094	149.750	131.827	112.945	107.519
77.5	169.710	169.299	157.652	148.645	142.013	118.846	94.072	74.633	53.833	46.990
80.0	120.070	120.737	111.347	103.737	94.027	68.266	40.541	27.414	21.102	19.750
82.5	77.602	78.013	70.696	63.461	46.808	23.751	14.461	12.981	11.656	11.355
85.0	41.555	42.660	36.421	25.514	12.204	8.103	7.061	6.906	6.203	6.120
87.5	15.237	16.269	11.318	3.974	3.270	2.777	2.403	2.485	1.818	1.845
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	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469
2.5	1573.732	1574.353	1575.605	1571.074	1570.060	1581.195	1583.086	1582.264	1582.949	1582.264
5.0	1569.293	1570.370	1571.330	1566.397	1565.364	1577.414	1580.556	1578.144	1577.331	1578.144
7.5	1561.628	1564.067	1565.282	1561.528	1558.239	1570.928	1573.166	1572.115	1571.083	1572.115
10.0	1549.406	1552.886	1554.128	1549.817	1545.743	1560.231	1564.405	1563.921	1561.619	1563.921
12.5	1535.530	1537.101	1539.193	1536.352	1532.003	1547.012	1551.443	1549.707	1547.807	1549.707
15.0	1514.958	1518.191	1521.343	1519.361	1515.341	1530.213	1534.086	1532.296	1528.852	1532.296
17.5	1495.326	1497.793	1500.543	1499.428	1494.212	1510.079	1514.601	1511.304	1509.175	1511.304
20.0	1473.000	1473.567	1479.696	1475.513	1471.283	1486.621	1490.531	1488.530	1487.900	1488.530
22.5	1444.673	1445.769	1451.259	1447.295	1445.678	1460.595	1464.130	1464.103	1462.806	1464.103
25.0	1412.764	1413.121	1419.954	1417.916	1417.158	1429.956	1436.534	1433.017	1427.928	1433.017
27.5	1378.746	1375.950	1385.259	1384.976	1382.774	1393.471	1402.935	1397.664	1393.453	1397.664
30.0	1338.497	1335.427	1344.608	1345.211	1341.694	1353.688	1363.910	1355.588	1354.894	1355.588
32.5	1293.790	1290.383	1299.207	1297.344	1294.676	1305.775	1317.157	1306.716	1304.560	1306.716
35.0	1240.761	1234.970	1244.982	1243.895	1237.710	1249.695	1260.009	1249.275	1250.015	1249.275
37.5	1178.991	1172.011	1181.676	1183.640	1177.310	1188.025	1198.092	1189.715	1189.149	1189.715
40.0	1109.099	1102.869	1111.784	1115.895	1115.246	1126.272	1135.663	1129.862	1128.008	1129.862
42.5	1036.923	1032.328	1043.464	1048.369	1049.538	1063.259	1073.929	1067.078	1067.461	1067.078
45.0	963.880	958.938	974.138	979.811	980.222	996.528	1008.678	1001.616	1001.854	1001.616
47.5	888.607	890.745	902.547	910.485	915.729	926.846	939.946	933.387	934.118	933.387
50.0	823.630	824.324	837.323	850.834	854.141	861.869	876.302	872.931	872.877	872.931
52.5	749.161	751.518	766.728	776.667	783.317	797.604	810.960	806.008	805.780	806.008
55.0	674.821	678.959	694.790	702.555	710.201	724.734	739.104	735.441	735.395	735.441
57.5	601.923	604.947	620.358	628.552	637.102	652.586	664.790	664.736	662.525	664.736
60.0	528.140	532.909	547.799	556.568	564.899	580.219	592.423	594.442	594.049	594.442
62.5	455.279	461.555	475.934	485.370	492.979	509.276	522.312	524.148	525.125	524.148
65.0	381.039	391.142	405.841	414.839	423.215	439.339	452.922	455.224	455.435	455.224
67.5	308.781	317.935	337.566	348.482	355.735	371.402	385.470	387.607	387.772	387.607
70.0	242.050	249.212	269.811	283.331	292.758	308.617	321.680	322.328	324.548	322.328
72.5	174.899	183.787	204.323	223.817	233.765	250.025	260.969	260.932	264.038	260.932
75.0	111.986	122.692	145.986	166.705	180.170	195.051	203.573	203.738	205.812	203.738
77.5	52.079	64.365	89.404	111.347	129.662	143.821	151.011	150.353	150.901	150.353
80.0	20.864	22.317	34.110	59.460	79.995	97.699	103.938	102.303	103.344	102.303

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CANDELA TABULATION - (Cont.)

82.5	11.327	11.501	13.136	16.845	32.758	55.924	63.004	60.821	61.150	60.821
85.0	6.057	5.938	6.321	6.440	7.637	18.352	28.647	28.081	28.008	28.081
87.5	1.599	1.672	1.754	1.763	1.599	2.229	6.860	5.993	6.751	5.993
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	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469
2.5	1583.086	1581.195	1570.060	1571.074	1575.605	1574.353	1573.732	1575.559	1574.015	1573.823
5.0	1580.556	1577.414	1565.364	1566.397	1571.330	1570.370	1569.293	1571.631	1570.425	1571.028
7.5	1573.166	1570.928	1558.239	1561.528	1565.282	1564.067	1561.628	1561.939	1560.532	1562.167
10.0	1564.405	1560.231	1545.743	1549.817	1554.128	1552.886	1549.406	1550.109	1548.008	1549.287
12.5	1551.443	1547.012	1532.003	1536.352	1539.193	1537.101	1535.530	1538.654	1536.160	1536.708
15.0	1534.086	1530.213	1515.341	1519.361	1521.343	1518.191	1514.958	1520.959	1519.196	1518.100
17.5	1514.601	1510.079	1494.212	1499.428	1500.543	1497.793	1495.326	1499.702	1498.314	1496.651
20.0	1490.531	1486.621	1471.283	1475.513	1479.696	1473.567	1473.000	1474.992	1474.033	1470.991
22.5	1464.130	1460.595	1445.678	1447.295	1451.259	1445.769	1444.673	1448.016	1446.947	1443.631
25.0	1436.534	1429.956	1417.158	1417.916	1419.954	1413.121	1412.764	1415.797	1413.413	1412.353
27.5	1402.935	1393.471	1382.774	1384.976	1385.259	1375.950	1378.746	1379.157	1377.640	1376.179

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CANDELA TABULATION - (Cont.)

30.0	1363.910	1353.688	1341.694	1345.211	1344.608	1335.427	1338.497	1338.670	1339.419	1338.104
32.5	1317.157	1305.775	1294.676	1297.344	1299.207	1290.383	1293.790	1293.251	1293.333	1295.772
35.0	1260.009	1249.695	1237.710	1243.895	1244.982	1234.970	1240.761	1239.409	1240.962	1243.831
37.5	1198.092	1188.025	1177.310	1183.640	1181.676	1172.011	1178.991	1178.561	1180.854	1183.065
40.0	1135.663	1126.272	1115.246	1115.895	1111.784	1102.869	1109.099	1108.551	1111.492	1113.694
42.5	1073.929	1063.259	1049.538	1048.369	1043.464	1032.328	1036.923	1036.439	1038.248	1040.376
45.0	1008.678	996.528	980.222	979.811	974.138	958.938	963.880	959.677	961.294	966.693
47.5	939.946	926.846	915.729	910.485	902.547	890.745	888.607	888.406	889.091	891.001
50.0	876.302	861.869	854.141	850.834	837.323	824.324	823.630	822.232	821.657	827.138
52.5	810.960	797.604	783.317	776.667	766.728	751.518	749.161	747.152	749.463	755.474
55.0	739.104	724.734	710.201	702.555	694.790	678.959	674.821	672.592	675.762	681.973
57.5	664.790	652.586	637.102	628.552	620.358	604.947	601.923	598.918	599.183	608.099
60.0	592.423	580.219	564.899	556.568	547.799	532.909	528.140	525.372	525.052	535.439
62.5	522.312	509.276	492.979	485.370	475.934	461.555	455.279	452.566	452.521	466.214
65.0	452.922	439.339	423.215	414.839	405.841	391.142	381.039	378.819	380.975	395.354
67.5	385.470	371.402	355.735	348.482	337.566	317.935	308.781	305.858	308.836	323.817
70.0	321.680	308.617	292.758	283.331	269.811	249.212	242.050	238.789	241.529	255.314
72.5	260.969	250.025	233.765	223.817	204.323	183.787	174.899	171.482	176.981	191.104
75.0	203.573	195.051	180.170	166.705	145.986	122.692	111.986	107.519	112.945	131.827
77.5	151.011	143.821	129.662	111.347	89.404	64.365	52.079	46.990	53.833	74.633
80.0	103.938	97.699	79.995	59.460	34.110	22.317	20.864	19.750	21.102	27.414
82.5	63.004	55.924	32.758	16.845	13.136	11.501	11.327	11.355	11.656	12.981
85.0	28.647	18.352	7.637	6.440	6.321	5.938	6.057	6.120	6.203	6.906
87.5	6.860	2.229	1.599	1.763	1.754	1.672	1.599	1.845	1.818	2.485
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

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

Vert. Horizontal Angles

	300	310	320	330	340	350	360
0.0	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469	1579.469
2.5	1574.436	1570.142	1569.959	1579.250	1580.565	1581.616	1579.606
5.0	1571.266	1565.894	1564.880	1575.276	1578.172	1577.870	1578.857
7.5	1563.254	1557.837	1557.974	1568.607	1571.394	1570.398	1570.462
10.0	1550.557	1546.565	1548.428	1557.883	1560.139	1559.299	1557.591
12.5	1536.982	1532.186	1532.908	1542.691	1545.797	1546.967	1545.953
15.0	1520.256	1515.725	1513.258	1522.814	1528.550	1530.304	1530.323
17.5	1499.026	1493.582	1493.682	1501.821	1508.791	1508.727	1507.220
20.0	1474.380	1470.561	1471.621	1479.322	1484.986	1485.123	1484.648
22.5	1446.683	1444.097	1444.645	1452.575	1458.558	1460.275	1457.718
25.0	1415.459	1413.422	1415.121	1423.078	1429.838	1430.441	1429.956
27.5	1380.920	1381.879	1381.870	1387.935	1395.883	1399.016	1401.346
30.0	1343.631	1343.046	1341.877	1349.294	1358.237	1362.969	1363.801
32.5	1297.490	1299.984	1298.367	1307.767	1315.239	1318.930	1318.153
35.0	1244.854	1249.695	1249.394	1255.651	1264.704	1271.163	1267.545
37.5	1186.545	1190.866	1190.080	1194.273	1206.724	1212.498	1214.370
40.0	1119.558	1124.683	1123.934	1127.761	1142.003	1146.753	1152.399
42.5	1047.556	1052.206	1056.965	1058.482	1073.664	1080.533	1083.183
45.0	972.092	978.340	985.776	989.019	1002.365	1014.314	1011.857
47.5	899.304	906.238	915.957	920.616	931.523	945.747	943.874
50.0	832.363	844.092	854.488	858.142	867.524	878.074	876.311
52.5	759.813	772.446	783.765	789.045	804.720	815.993	818.359
55.0	684.504	697.320	710.018	717.545	732.216	746.722	745.096
57.5	611.360	623.994	639.021	646.347	659.364	676.264	677.068
60.0	540.207	552.996	567.421	575.277	588.349	605.175	606.043
62.5	471.238	484.045	497.611	505.312	517.955	536.709	537.686
65.0	403.164	415.862	430.615	436.215	450.438	469.347	470.909
67.5	336.661	349.240	364.715	370.991	386.374	404.251	403.950
70.0	270.615	286.117	302.149	309.631	323.233	340.315	340.708
72.5	207.492	227.233	243.429	252.190	263.554	278.837	279.485
75.0	149.750	172.094	191.597	198.641	208.442	221.935	223.314
77.5	94.072	118.846	142.013	148.645	157.652	169.299	169.710
80.0	40.541	68.266	94.027	103.737	111.347	120.737	120.070
82.5	14.461	23.751	46.808	63.461	70.696	78.013	77.602
85.0	7.061	8.103	12.204	25.514	36.421	42.660	41.555
87.5	2.403	2.777	3.270	3.974	11.318	16.269	15.237
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	579.33	N.A.	14.40
0-30	1233.93	N.A.	30.60
0-40	2012.4	N.A.	50.00
0-60	3402.81	N.A.	84.50
0-80	4001.92	N.A.	99.40
0-90	4027.01	N.A.	100.00
10-90	3877.49	N.A.	96.30
20-40	1433.07	N.A.	35.60
20-50	2192.26	N.A.	54.40
40-70	1808.34	N.A.	44.90
60-80	599.11	N.A.	14.90
70-80	181.17	N.A.	4.50
80-90	25.09	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	4027.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.52
10-20	429.82
20-30	654.60
30-40	778.48
40-50	759.19
50-60	631.22
60-70	417.94
70-80	181.17
80-90	25.09
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	79	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	61	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	37
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

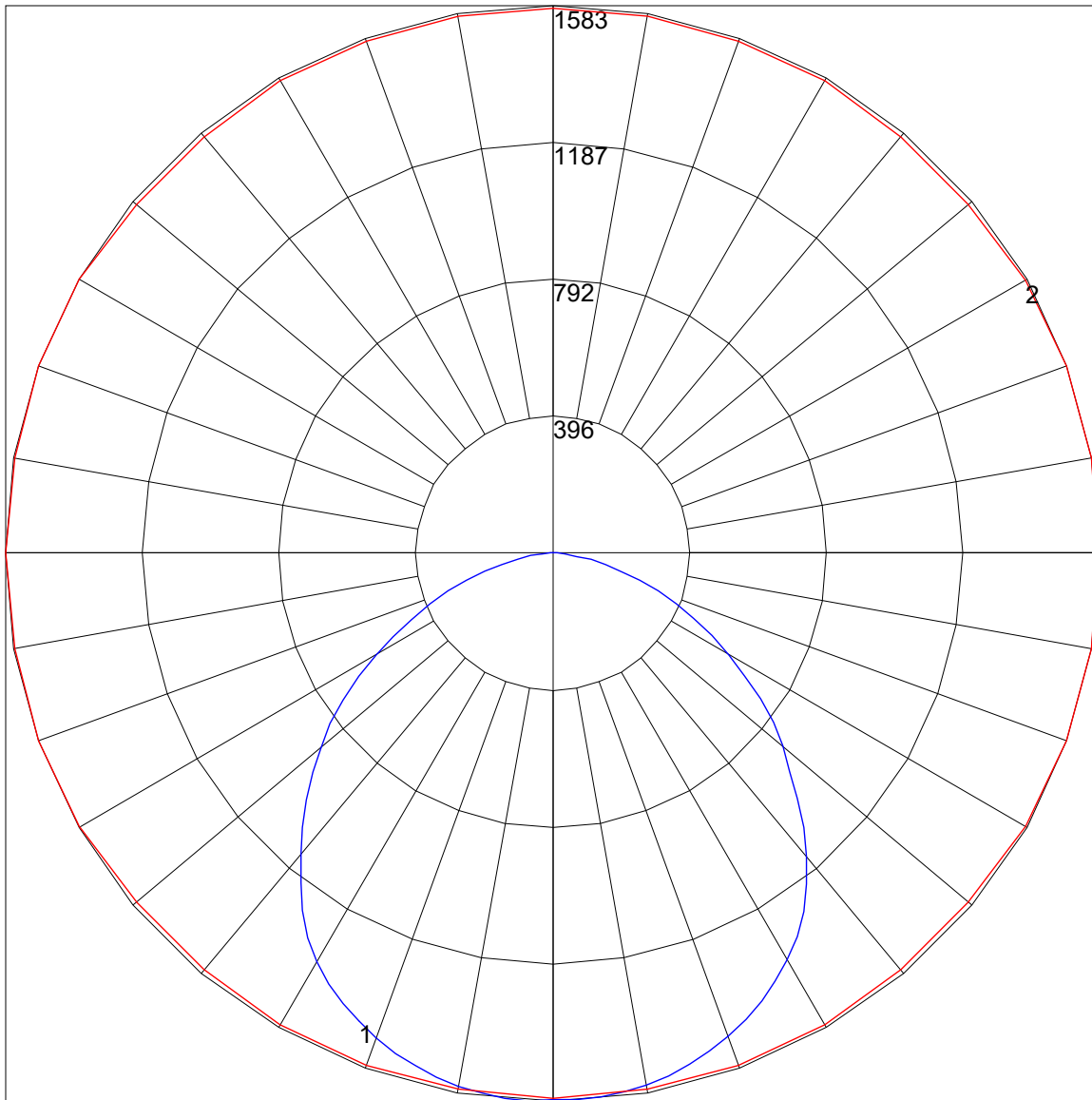
Room Size UGR Viewed Crosswise

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	23.6	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 = 1583.086 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.)