



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CW-4-L100-835-DMA-WHT-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4792073931.03
 [TESTLAB] UL, LLC
 [ISSUE DATE] 1/6/2026
 [TEST DATE] 12/31/2025
 [MANUFAC] H E Williams Inc
 [LUMCAT] CW-4-L100/835-DMA-WHT-DIM-UNV
 [LUMINAIRE] 4' wall mounted fixture with both up & down lighting compartments
 [LAMP] (4) 56 LED boards - 224 Total LED
 [BALLAST] Eldoled OTI50/120-277/1A4 DIM-1 L G2 #57452
 [OTHER] 24.7 C, 120.116 V, 0.710736 A, 84.0475 W, 0.9845 PF, 59.9994 H
 [OTHER] This test was performed using the calibrated photodetector method
 [MORE] of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10016
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	84.5
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.52 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9100	9439	16940
55	7986	8035	14872
65	7117	6796	12448
75	6373	5698	9094
85	5755	4846	4437

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1508.824	1508.824	1508.824	1508.824	1508.824	1508.824	1508.824	1508.824	1508.824
0.5	1512.897	1513.915	1509.842	1513.915	1503.734	1509.842	1502.716	1505.770	1505.770
1.0	1520.023	1519.005	1513.915	1515.951	1504.752	1507.806	1501.698	1500.679	1502.716
1.5	1524.096	1524.096	1517.987	1516.969	1502.716	1506.788	1496.607	1497.625	1497.625
2.0	1529.186	1530.204	1521.041	1519.005	1502.716	1503.734	1492.535	1492.535	1494.571
2.5	1533.259	1534.277	1524.096	1520.023	1502.716	1501.698	1490.498	1488.462	1490.498
3.0	1541.403	1539.367	1529.186	1523.078	1500.679	1498.643	1485.408	1484.390	1484.390
3.5	1547.512	1544.458	1533.259	1522.060	1499.661	1495.589	1481.336	1480.317	1480.317
4.0	1551.584	1549.548	1535.295	1525.114	1497.625	1493.553	1478.281	1475.227	1477.263
4.5	1558.711	1553.621	1539.367	1524.096	1496.607	1490.498	1474.209	1471.155	1471.155
5.0	1563.802	1559.729	1543.440	1525.114	1492.535	1484.390	1469.118	1465.046	1464.028
5.5	1567.874	1563.802	1545.476	1526.132	1492.535	1481.336	1466.064	1459.955	1459.955
6.0	1575.001	1568.892	1548.530	1526.132	1490.498	1478.281	1460.974	1454.865	1453.847
6.5	1578.055	1571.946	1549.548	1525.114	1488.462	1474.209	1455.883	1449.774	1447.738
7.0	1584.164	1576.019	1553.621	1525.114	1483.372	1469.118	1450.793	1443.666	1440.612
7.5	1590.272	1582.127	1556.675	1526.132	1481.336	1466.064	1445.702	1438.575	1436.539
8.0	1594.345	1586.200	1557.693	1527.150	1478.281	1460.974	1440.612	1432.467	1428.394
8.5	1599.435	1589.254	1558.711	1525.114	1475.227	1456.901	1434.503	1426.358	1419.231
9.0	1604.526	1592.308	1561.765	1525.114	1471.155	1451.811	1428.394	1419.231	1413.123
9.5	1608.598	1595.363	1564.820	1524.096	1468.100	1446.720	1423.304	1413.123	1408.032
10.0	1613.689	1598.417	1564.820	1522.060	1466.064	1442.648	1417.195	1405.996	1398.869
10.5	1617.761	1603.508	1565.838	1519.005	1460.974	1436.539	1412.105	1400.906	1391.743
11.0	1622.851	1604.526	1567.874	1517.987	1456.901	1432.467	1403.960	1391.743	1384.616
11.5	1626.924	1608.598	1566.856	1516.969	1452.829	1425.340	1397.851	1384.616	1376.471
12.0	1628.960	1610.634	1567.874	1514.933	1447.738	1420.250	1390.725	1377.489	1366.290
12.5	1633.032	1611.652	1567.874	1512.897	1442.648	1414.141	1384.616	1371.381	1361.200
13.0	1636.087	1616.743	1570.928	1510.860	1437.557	1409.050	1377.489	1362.218	1350.001
13.5	1640.159	1617.761	1569.910	1509.842	1432.467	1400.906	1372.399	1355.091	1344.910
14.0	1641.177	1618.779	1570.928	1505.770	1427.376	1394.797	1363.236	1347.964	1334.729
14.5	1646.268	1620.815	1569.910	1502.716	1423.304	1387.670	1356.109	1338.802	1325.566
15.0	1650.340	1621.833	1569.910	1500.679	1418.213	1382.580	1348.983	1328.621	1317.421
15.5	1652.376	1623.870	1568.892	1497.625	1411.087	1375.453	1341.856	1322.512	1307.240
16.0	1653.394	1624.888	1568.892	1493.553	1404.978	1369.345	1332.693	1313.349	1297.059
16.5	1654.413	1626.924	1566.856	1491.517	1397.851	1363.236	1326.584	1304.186	1286.878
17.0	1659.503	1627.942	1566.856	1486.426	1392.761	1356.109	1317.421	1294.005	1277.716
17.5	1659.503	1628.960	1565.838	1481.336	1387.670	1347.964	1308.259	1285.860	1271.607
18.0	1662.557	1629.978	1565.838	1478.281	1380.544	1340.838	1300.114	1278.734	1263.462
18.5	1664.594	1630.996	1563.802	1475.227	1374.435	1334.729	1291.969	1270.589	1256.335
19.0	1664.594	1629.978	1560.747	1470.136	1366.290	1324.548	1284.842	1262.444	1247.173
19.5	1666.630	1630.996	1559.729	1467.082	1360.182	1317.421	1275.679	1253.281	1236.992
20.0	1668.666	1629.978	1557.693	1461.992	1353.055	1310.295	1269.571	1245.136	1226.811
20.5	1670.702	1630.996	1556.675	1454.865	1345.928	1301.132	1261.426	1238.010	1216.630
21.0	1670.702	1629.978	1553.621	1450.793	1338.802	1294.005	1252.263	1228.847	1206.449
21.5	1669.684	1629.978	1550.566	1445.702	1330.657	1284.842	1247.173	1218.666	1196.268
22.0	1671.720	1628.960	1548.530	1440.612	1323.530	1277.716	1238.010	1209.503	1186.087
22.5	1671.720	1628.960	1547.512	1434.503	1315.385	1266.516	1228.847	1199.322	1175.906
23.0	1672.738	1627.942	1543.440	1429.412	1307.240	1261.426	1219.684	1189.141	1165.725
23.5	1670.702	1627.942	1540.385	1424.322	1299.096	1254.299	1210.521	1179.978	1155.544
24.0	1670.702	1624.888	1537.331	1417.195	1290.951	1247.173	1201.358	1169.797	1144.344
24.5	1669.684	1625.906	1533.259	1411.087	1281.788	1238.010	1191.177	1159.616	1134.163
25.0	1668.666	1623.870	1531.222	1405.996	1274.661	1229.865	1182.014	1149.435	1123.982
25.5	1670.702	1621.833	1528.168	1398.869	1267.535	1219.684	1171.833	1139.254	1112.783
26.0	1667.648	1619.797	1526.132	1392.761	1260.408	1210.521	1161.652	1129.073	1102.602
26.5	1666.630	1617.761	1519.005	1385.634	1254.299	1201.358	1152.489	1118.892	1091.403

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CANDELA TABULATION - (Cont.)

27.0	1666.630	1615.725	1515.951	1379.526	1246.154	1192.195	1142.308	1107.693	1081.222
27.5	1664.594	1612.670	1510.860	1372.399	1236.992	1183.032	1132.127	1097.512	1071.041
28.0	1659.503	1612.670	1507.806	1366.290	1227.829	1172.851	1121.946	1087.331	1059.842
28.5	1660.521	1609.616	1502.716	1358.145	1218.666	1163.688	1111.765	1076.132	1048.643
29.0	1657.467	1605.544	1499.661	1351.019	1208.485	1153.507	1101.584	1065.951	1038.462
29.5	1656.449	1604.526	1493.553	1343.892	1199.322	1144.344	1091.403	1054.752	1028.281
30.0	1655.431	1601.471	1490.498	1336.765	1190.159	1134.163	1081.222	1044.571	1017.286
30.5	1652.376	1598.417	1485.408	1329.639	1180.996	1125.001	1071.041	1033.372	1006.494
31.0	1649.322	1597.399	1480.317	1321.494	1170.815	1114.820	1059.842	1023.191	995.702
31.5	1647.286	1593.327	1475.227	1313.349	1161.652	1104.639	1049.661	1012.602	984.706
32.0	1646.268	1591.290	1470.136	1306.222	1151.471	1094.458	1039.480	1002.014	973.914
32.5	1643.213	1587.218	1464.028	1298.078	1141.290	1084.277	1029.299	991.324	963.530
33.0	1642.195	1584.164	1458.937	1289.933	1131.109	1074.096	1019.118	980.838	952.942
33.5	1640.159	1581.109	1455.883	1282.806	1120.928	1063.915	1008.326	970.046	941.743
34.0	1637.105	1577.037	1448.756	1273.643	1110.747	1053.734	997.840	959.559	930.849
34.5	1636.087	1573.983	1443.666	1268.553	1100.566	1043.553	987.659	948.971	919.650
35.0	1630.996	1569.910	1438.575	1258.372	1090.385	1032.353	976.867	938.179	909.469
35.5	1628.960	1564.820	1432.467	1256.335	1080.204	1023.191	966.177	927.591	898.473
36.0	1624.888	1560.747	1426.358	1248.191	1070.023	1012.399	955.996	916.901	887.681
36.5	1622.851	1558.711	1421.268	1240.046	1059.842	1001.810	945.204	906.313	877.195
37.0	1618.779	1553.621	1414.141	1231.901	1048.643	991.120	935.023	895.826	866.403
37.5	1614.707	1550.566	1408.032	1222.738	1038.462	980.838	924.333	885.034	855.815
38.0	1610.634	1545.476	1401.924	1213.575	1028.281	970.453	913.643	874.446	844.921
38.5	1608.598	1540.385	1395.815	1205.430	1017.286	959.865	903.258	863.858	834.537
39.0	1604.526	1538.349	1388.688	1197.286	1006.595	949.175	892.568	853.473	824.254
39.5	1602.489	1532.241	1382.580	1188.123	996.007	938.485	882.387	842.681	813.666
40.0	1596.381	1528.168	1376.471	1178.960	985.623	928.202	871.697	832.297	803.586
40.5	1594.345	1525.114	1370.363	1169.797	974.831	918.021	861.313	821.709	792.896
41.0	1589.254	1520.023	1364.254	1160.634	963.937	907.331	850.724	811.222	782.613
41.5	1584.164	1514.933	1357.127	1151.471	953.043	896.641	840.340	800.837	772.331
42.0	1580.091	1509.842	1351.019	1142.308	942.252	885.849	829.955	790.351	761.844
42.5	1578.055	1504.752	1344.910	1133.145	931.562	875.261	819.571	779.966	751.358
43.0	1571.946	1500.679	1336.765	1123.982	920.668	865.181	808.880	769.785	741.279
43.5	1567.874	1495.589	1329.639	1114.820	909.571	854.899	798.496	759.095	730.283
44.0	1563.802	1488.462	1324.548	1105.657	898.779	843.598	788.111	748.914	720.204
44.5	1559.729	1485.408	1316.403	1096.494	887.681	832.704	777.828	738.632	710.125
45.0	1555.657	1479.299	1309.277	1087.331	876.991	822.014	767.444	728.247	700.147
45.5	1550.566	1474.209	1304.186	1077.150	866.301	811.528	757.263	717.761	689.356
46.0	1548.530	1469.118	1296.041	1067.987	855.306	800.837	746.980	707.580	679.378
46.5	1539.367	1464.028	1288.915	1058.824	844.209	789.944	736.595	697.093	668.994
47.0	1536.313	1457.919	1280.770	1049.661	833.213	778.948	726.109	687.014	658.711
47.5	1532.241	1453.847	1273.643	1040.498	822.319	767.851	715.826	676.731	648.733
48.0	1530.204	1447.738	1269.571	1031.335	811.833	757.568	705.034	666.550	638.654
48.5	1524.096	1442.648	1261.426	1021.154	800.634	746.980	694.955	656.471	628.575
49.0	1520.023	1436.539	1257.354	1012.093	789.537	735.985	684.570	646.188	618.598
49.5	1513.915	1431.449	1247.173	1002.727	778.643	725.091	674.186	636.414	608.620
50.0	1507.806	1425.340	1243.100	992.953	767.749	714.299	663.801	625.928	598.643
50.5	1504.752	1419.231	1234.955	983.077	756.754	703.711	653.417	615.951	588.665
51.0	1499.661	1415.159	1227.829	973.609	745.860	693.428	643.337	605.973	579.095
51.5	1494.571	1407.014	1219.684	964.039	734.966	682.432	633.055	596.098	569.322
52.0	1486.426	1401.924	1212.557	954.367	723.869	671.742	622.772	586.426	559.446
52.5	1485.408	1396.833	1204.412	944.695	712.874	660.849	612.591	576.245	549.774
53.0	1479.299	1389.707	1197.286	934.616	701.776	650.260	602.003	566.369	539.898
53.5	1473.191	1384.616	1189.141	924.842	690.679	639.774	591.822	556.697	529.921
54.0	1467.082	1379.526	1180.996	915.068	679.582	628.982	581.742	546.720	520.758
54.5	1463.010	1373.417	1172.851	905.498	668.586	618.190	571.460	537.150	510.679

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55.0	1455.883	1367.308	1164.706	895.419	657.794	607.602	561.177	527.172	500.905
55.5	1451.811	1361.200	1156.562	885.645	646.595	597.116	550.996	517.398	491.437
56.0	1445.702	1355.091	1149.435	875.566	635.600	586.527	540.917	507.726	481.460
56.5	1441.630	1347.964	1140.272	865.792	624.706	575.837	530.634	497.851	472.195
57.0	1433.485	1339.820	1133.145	856.120	613.711	565.147	520.656	488.383	462.625
57.5	1430.431	1335.747	1125.001	846.347	603.122	554.763	510.577	478.507	452.749
58.0	1424.322	1327.602	1115.838	836.369	592.127	544.073	500.396	468.733	443.688
58.5	1421.268	1321.494	1107.693	826.392	581.131	533.892	490.419	459.265	434.118
59.0	1413.123	1315.385	1099.548	816.720	570.238	523.405	480.441	449.593	424.650
59.5	1407.014	1308.259	1091.403	806.946	559.039	512.715	470.464	440.125	415.588
60.0	1400.906	1302.150	1083.258	797.172	548.247	502.432	460.487	430.453	405.916
60.5	1394.797	1295.023	1075.114	786.890	537.455	491.844	450.611	420.781	396.652
61.0	1386.652	1287.897	1066.969	776.709	526.561	481.969	440.837	411.414	387.489
61.5	1381.562	1282.806	1057.806	766.426	515.668	471.380	430.860	401.742	378.428
62.0	1376.471	1274.661	1049.661	756.550	504.672	460.792	420.883	392.478	369.061
62.5	1371.381	1268.553	1041.516	746.471	493.982	450.509	411.007	383.111	359.491
63.0	1363.236	1266.516	1032.353	736.494	483.190	440.125	401.030	373.643	350.634
63.5	1356.109	1260.408	1023.191	726.211	472.297	430.045	391.256	364.378	341.573
64.0	1352.037	1253.281	1014.944	716.030	461.403	419.864	381.482	354.910	332.511
64.5	1343.892	1246.154	1006.494	706.154	450.611	408.971	371.301	345.645	323.450
65.0	1338.802	1239.028	997.534	696.177	440.023	398.892	361.527	336.278	313.880
65.5	1331.675	1231.901	988.982	686.199	429.536	388.507	351.855	326.810	305.328
66.0	1322.512	1223.756	980.227	675.917	418.541	378.326	342.285	317.851	296.471
66.5	1318.440	1216.630	971.064	665.837	408.054	368.145	332.715	308.688	287.613
67.0	1310.295	1209.503	962.308	655.555	397.059	357.760	323.145	299.423	278.654
67.5	1302.150	1201.358	953.451	646.086	386.369	347.376	313.473	290.159	269.389
68.0	1298.078	1194.231	944.491	635.905	375.781	337.500	304.005	280.792	261.041
68.5	1287.897	1186.087	935.634	625.622	365.294	327.319	294.638	272.036	252.591
69.0	1281.788	1178.960	926.675	615.238	354.706	317.444	285.068	263.077	243.631
69.5	1273.643	1170.815	917.919	605.362	344.016	307.364	275.905	254.423	235.487
70.0	1267.535	1162.670	909.163	595.487	333.326	297.285	266.437	245.668	226.629
70.5	1264.480	1155.544	900.408	585.611	322.534	287.206	256.867	236.708	218.484
71.0	1259.390	1147.399	891.448	575.532	312.149	277.229	247.806	228.054	210.238
71.5	1252.263	1140.272	882.387	565.147	301.968	267.658	238.541	219.401	201.686
72.0	1244.118	1132.127	873.530	555.272	291.482	257.783	229.785	211.052	193.643
72.5	1236.992	1123.982	865.080	545.498	281.097	248.009	220.826	202.398	185.192
73.0	1229.865	1116.856	856.018	535.622	271.731	238.439	211.663	193.643	177.149
73.5	1221.720	1108.711	847.263	525.747	261.448	228.767	203.009	185.701	169.310
74.0	1214.593	1100.566	838.609	515.769	251.267	219.502	194.152	177.658	161.165
74.5	1206.449	1093.439	829.955	506.199	241.086	209.932	185.803	169.514	153.937
75.0	1199.322	1085.295	821.403	496.833	230.905	200.566	177.353	161.776	145.996
75.5	1192.195	1078.168	812.749	487.364	221.335	191.403	168.903	153.835	138.563
76.0	1184.050	1070.023	804.197	477.998	211.459	182.647	160.860	146.199	131.029
76.5	1176.924	1062.896	795.645	468.835	201.991	173.586	152.715	138.767	123.699
77.0	1168.779	1054.752	786.890	459.570	192.625	164.729	144.774	131.233	116.776
77.5	1160.634	1046.607	778.337	450.713	183.258	155.973	136.833	123.903	109.548
78.0	1153.507	1039.480	769.989	441.957	174.299	147.625	129.197	116.674	102.523
78.5	1145.363	1031.335	761.742	433.202	165.136	139.378	121.459	109.548	96.007
79.0	1138.236	1024.209	753.598	424.446	156.380	131.335	114.231	102.624	89.186
79.5	1130.091	1016.471	745.453	416.097	147.625	123.496	107.002	95.600	82.670
80.0	1121.946	1008.835	738.021	407.749	139.276	115.656	99.876	88.982	76.052
80.5	1114.820	1001.403	730.385	399.808	130.928	108.224	92.851	82.364	69.638
81.0	1107.693	993.971	723.055	391.765	122.986	100.996	85.928	75.848	63.835
81.5	1100.566	986.437	715.623	383.824	114.943	93.971	79.208	69.536	57.624
82.0	1092.421	978.801	707.783	376.086	107.206	87.048	72.591	63.326	51.923
82.5	1085.295	971.369	700.555	368.450	99.774	80.328	66.177	57.319	46.222

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CANDELA TABULATION - (Cont.)

83.0	1078.168	964.446	693.122	361.120	92.443	73.710	59.864	51.516	40.622
83.5	1071.041	957.319	685.996	353.892	85.317	67.296	53.654	45.611	35.430
84.0	1064.933	950.295	678.767	346.867	78.394	61.188	47.851	40.113	30.238
84.5	1057.806	943.473	671.844	339.842	71.572	55.079	42.048	34.717	25.554
85.0	1050.679	936.754	664.616	333.122	65.057	49.072	36.550	29.627	21.380
85.5	1044.571	929.933	658.202	326.810	58.744	43.269	31.052	24.842	18.020
86.0	1037.444	923.009	651.686	320.396	52.534	37.670	25.860	20.769	15.577
86.5	1030.317	916.392	645.272	313.982	46.629	32.070	21.176	17.613	13.846
87.0	1024.209	910.283	638.858	307.975	40.622	26.776	17.410	15.272	12.726
87.5	1017.795	904.887	632.444	301.765	34.717	21.380	14.762	13.643	12.014
88.0	1012.704	901.120	626.946	295.860	28.812	16.799	13.133	12.624	11.505
88.5	1009.548	898.677	622.772	289.955	22.907	13.846	12.217	11.912	11.097
89.0	1007.715	897.659	620.532	284.355	16.799	12.523	11.810	11.505	11.097
89.5	1006.799	897.455	620.023	280.588	12.930	12.115	11.606	11.403	10.995
90.0	1006.799	897.862	620.532	280.079	12.115	12.115	11.505	11.301	10.894
90.5	1003.541	898.677	623.484	286.595	15.781	11.606	11.606	11.403	10.486
91.0	1005.577	901.629	627.150	291.686	19.344	11.708	11.708	11.505	10.588
91.5	1008.632	905.498	632.342	297.285	24.943	11.810	11.912	11.606	10.588
92.0	1012.297	910.792	638.145	303.190	30.950	13.032	11.912	11.708	10.690
92.5	1017.286	916.799	644.356	309.095	36.957	15.882	12.115	11.708	10.792
93.0	1023.191	923.519	650.464	315.102	42.760	20.464	12.726	11.810	10.894
93.5	1030.317	930.136	657.184	321.312	48.767	26.165	14.253	12.115	11.199
94.0	1037.444	936.754	663.699	327.523	54.774	31.867	17.206	12.930	11.912
94.5	1043.553	943.779	670.622	333.937	60.781	37.568	21.176	14.457	13.337
95.0	1050.679	950.702	677.546	340.656	67.093	43.473	26.165	17.206	16.290
95.5	1057.806	957.829	684.570	347.274	73.507	49.378	31.765	21.075	20.667
96.0	1064.933	965.159	691.494	354.095	80.124	55.486	37.262	25.758	25.758
96.5	1072.059	972.693	699.027	361.018	87.048	61.697	43.167	30.950	31.052
97.0	1079.186	980.227	706.460	368.349	94.276	68.009	49.072	36.550	36.448
97.5	1086.313	987.659	713.892	375.781	101.505	74.423	55.079	42.251	42.048
98.0	1094.458	995.295	721.731	383.518	109.039	81.143	61.188	48.054	47.953
98.5	1101.584	1003.134	729.163	391.256	116.674	88.066	67.500	53.959	53.959
99.0	1108.711	1010.566	736.799	398.993	124.615	95.091	74.118	60.068	59.966
99.5	1115.838	1018.100	744.435	407.240	132.760	102.421	80.735	66.278	66.177
100.0	1122.964	1026.245	752.172	415.385	141.210	109.751	87.658	72.692	72.489
100.5	1131.109	1033.372	760.012	423.631	149.966	117.489	94.683	79.310	79.005
101.0	1138.236	1041.516	768.055	432.082	158.722	125.430	101.810	86.029	85.520
101.5	1145.363	1049.661	775.894	440.736	167.579	133.371	109.039	92.851	92.138
102.0	1153.507	1056.788	784.141	449.288	176.437	141.720	116.471	99.672	99.163
102.5	1160.634	1064.933	792.591	457.941	185.803	150.373	124.106	106.697	106.188
103.0	1168.779	1072.059	801.143	467.104	195.475	159.027	131.946	114.027	113.213
103.5	1175.906	1080.204	809.695	476.165	205.045	167.783	139.887	121.358	120.441
104.0	1184.050	1088.349	818.349	485.532	214.717	178.473	147.930	128.891	127.670
104.5	1191.177	1095.476	827.104	494.695	224.389	188.959	156.177	136.731	135.305
105.0	1199.322	1103.620	835.656	504.265	234.163	195.577	164.220	144.061	142.839
105.5	1206.449	1111.765	844.412	513.530	244.344	204.231	172.772	151.799	150.475
106.0	1213.575	1118.892	853.168	523.100	254.423	214.514	181.120	159.638	158.518
106.5	1221.720	1127.037	861.923	532.568	264.502	226.934	189.876	167.579	166.561
107.0	1229.865	1134.163	870.781	542.036	274.989	234.977	198.530	175.826	174.604
107.5	1236.992	1142.308	879.333	551.708	285.068	242.206	206.878	184.072	182.749
108.0	1244.118	1149.435	887.783	561.482	295.147	251.878	215.837	192.319	190.792
108.5	1252.263	1157.580	896.335	571.358	305.837	261.652	224.593	200.769	199.446
109.0	1259.390	1164.706	904.887	580.928	316.527	271.629	233.756	209.321	207.998
109.5	1260.408	1172.851	913.847	590.905	326.810	281.708	243.020	217.975	216.448
110.0	1268.553	1179.978	922.500	600.679	337.195	291.380	252.285	226.833	225.102
110.5	1274.661	1188.123	931.256	610.453	347.681	301.459	261.448	235.792	234.061

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111.0	1281.788	1195.249	940.012	619.921	358.269	311.539	270.611	244.446	242.410
111.5	1287.897	1203.394	948.564	629.695	368.858	321.618	280.079	253.609	251.471
112.0	1296.041	1210.521	957.319	639.570	379.649	331.901	289.751	262.263	260.430
112.5	1303.168	1217.648	966.177	649.344	390.645	342.285	299.423	271.425	269.287
113.0	1311.313	1225.792	974.933	659.423	401.437	352.466	309.095	280.588	278.145
113.5	1318.440	1232.919	983.790	669.401	412.331	362.749	318.665	290.057	287.002
114.0	1324.548	1241.064	992.138	679.073	423.224	373.032	328.134	299.016	296.471
114.5	1332.693	1245.136	1000.792	689.152	433.914	383.620	338.009	308.281	305.430
115.0	1337.783	1252.263	1009.548	699.231	444.604	394.412	348.496	317.444	314.593
115.5	1345.928	1259.390	1018.100	709.310	455.600	404.898	361.731	327.014	323.552
116.0	1351.019	1266.516	1027.263	719.186	466.493	415.690	375.272	336.686	332.715
116.5	1359.164	1274.661	1035.408	728.960	477.387	426.278	385.045	346.256	342.082
117.0	1366.290	1278.734	1043.553	738.937	488.281	436.765	391.459	355.724	351.652
117.5	1371.381	1283.824	1052.715	748.711	499.174	447.353	401.233	365.192	361.120
118.0	1378.507	1290.951	1060.860	758.586	510.068	458.145	415.181	374.661	370.487
118.5	1385.634	1299.096	1069.005	768.666	520.962	468.631	426.482	384.231	380.057
119.0	1392.761	1304.186	1078.168	778.541	532.161	479.423	431.674	393.903	389.321
119.5	1398.869	1311.313	1086.313	788.417	543.360	490.113	438.292	403.473	398.892
120.0	1404.978	1319.458	1094.458	798.496	554.152	500.702	448.269	413.043	408.462
120.5	1411.087	1325.566	1102.602	808.270	565.249	511.392	458.349	422.715	418.337
121.0	1417.195	1331.675	1110.747	817.840	576.143	522.082	468.326	432.387	427.806
121.5	1422.286	1337.783	1118.892	827.715	587.240	532.772	478.609	441.957	437.783
122.0	1430.431	1345.928	1127.037	837.489	598.439	543.360	488.790	452.851	447.251
122.5	1435.521	1352.037	1135.182	847.365	609.435	554.152	499.073	466.697	456.923
123.0	1440.612	1359.164	1143.326	857.138	620.430	564.842	509.254	480.849	466.901
123.5	1447.738	1364.254	1151.471	866.607	631.527	575.430	519.333	492.251	476.573
124.0	1453.847	1370.363	1158.598	876.482	642.421	586.120	529.717	501.211	486.448
124.5	1460.974	1378.507	1166.743	886.663	653.518	596.810	540.000	510.883	497.851
125.0	1464.028	1382.580	1174.887	896.030	664.616	607.602	550.487	520.758	514.751
125.5	1469.118	1389.707	1183.032	905.702	675.815	618.394	560.973	527.478	534.197
126.0	1476.245	1394.797	1191.177	915.374	686.708	629.288	571.154	532.365	547.636
126.5	1482.354	1401.924	1198.304	924.944	697.399	639.978	581.437	540.713	547.738
127.0	1486.426	1408.032	1206.449	934.819	708.496	650.668	591.720	550.385	547.738
127.5	1494.571	1414.141	1214.593	944.390	719.389	661.460	602.206	560.362	555.170
128.0	1499.661	1419.231	1221.720	954.062	730.283	672.251	612.489	570.238	564.740
128.5	1503.734	1425.340	1229.865	963.530	741.380	683.043	623.179	580.419	574.514
129.0	1509.842	1431.449	1236.992	973.202	752.172	693.733	633.462	590.498	584.898
129.5	1513.915	1437.557	1245.136	982.976	763.371	704.525	643.745	600.475	595.487
130.0	1519.005	1443.666	1251.245	992.648	774.163	715.215	654.129	610.555	605.362
130.5	1526.132	1449.774	1260.408	1001.810	785.261	725.905	664.412	620.532	615.951
131.0	1529.186	1453.847	1264.480	1011.482	796.052	736.901	675.102	630.713	625.724
131.5	1534.277	1458.937	1270.589	1021.154	807.252	747.794	685.487	640.792	635.702
132.0	1539.367	1465.046	1278.734	1030.317	818.145	758.586	695.973	651.279	646.290
132.5	1543.440	1470.136	1284.842	1039.480	829.039	768.971	706.154	661.154	656.471
133.0	1550.566	1477.263	1289.933	1048.643	840.238	780.068	716.946	671.233	666.957
133.5	1555.657	1482.354	1297.059	1057.806	851.132	790.555	727.229	681.414	677.240
134.0	1557.693	1487.444	1304.186	1066.969	862.229	801.448	738.123	691.697	687.421
134.5	1562.784	1490.498	1311.313	1077.150	873.123	812.240	748.813	702.082	697.602
135.0	1567.874	1496.607	1318.440	1086.313	883.813	823.032	759.503	712.466	707.885
135.5	1571.946	1501.698	1325.566	1095.476	895.012	833.620	770.294	722.851	718.880
136.0	1575.001	1505.770	1331.675	1104.639	905.905	844.209	780.883	733.032	729.061
136.5	1584.164	1510.860	1338.802	1113.801	916.392	855.102	791.471	743.213	739.548
137.0	1586.200	1517.987	1344.910	1122.964	927.184	866.199	802.263	753.598	750.136
137.5	1589.254	1521.041	1352.037	1132.127	937.670	876.381	812.342	763.982	759.401
138.0	1593.327	1527.150	1358.145	1141.290	948.666	886.969	823.337	774.367	769.785
138.5	1597.399	1531.222	1365.272	1150.453	959.661	897.862	834.028	785.057	780.781

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CANDELA TABULATION - (Cont.)

139.0	1601.471	1536.313	1372.399	1159.616	970.351	908.654	844.718	795.645	791.267
139.5	1607.580	1542.422	1378.507	1167.761	981.143	919.141	855.204	806.030	802.161
140.0	1610.634	1545.476	1385.634	1176.924	991.528	929.729	865.487	816.720	812.138
140.5	1614.707	1549.548	1391.743	1186.087	1002.218	940.419	876.075	827.104	822.523
141.0	1617.761	1554.639	1399.888	1194.231	1012.806	950.905	886.663	837.591	833.213
141.5	1619.797	1558.711	1403.960	1203.394	1023.191	962.003	897.353	848.485	844.005
142.0	1624.888	1563.802	1411.087	1211.539	1034.390	972.387	907.942	858.971	854.593
142.5	1628.960	1566.856	1415.159	1220.702	1044.571	982.772	918.123	869.763	865.080
143.0	1630.996	1570.928	1421.268	1228.847	1054.752	993.055	928.507	879.944	875.668
143.5	1636.087	1575.001	1426.358	1236.992	1064.933	1003.338	939.095	890.939	886.154
144.0	1641.177	1579.073	1433.485	1244.118	1075.114	1013.519	949.786	901.935	897.048
144.5	1643.213	1582.127	1438.575	1251.245	1086.313	1024.209	960.476	912.625	907.738
145.0	1643.213	1586.200	1442.648	1259.390	1096.494	1034.390	970.758	923.722	918.428
145.5	1650.340	1589.254	1449.774	1267.535	1106.675	1043.553	981.143	934.310	929.322
146.0	1650.340	1592.308	1454.865	1275.679	1115.838	1053.734	991.528	944.797	940.012
146.5	1654.413	1593.327	1459.955	1282.806	1126.019	1063.915	1002.014	955.487	950.193
147.0	1658.485	1598.417	1464.028	1287.897	1136.200	1074.096	1012.399	966.075	960.883
147.5	1659.503	1601.471	1470.136	1296.041	1146.381	1084.277	1023.191	977.172	971.471
148.0	1663.575	1604.526	1475.227	1304.186	1155.544	1094.458	1033.372	988.168	982.467
148.5	1665.612	1606.562	1480.317	1310.295	1165.725	1103.620	1043.553	999.163	993.564
149.0	1667.648	1610.634	1483.372	1319.458	1175.906	1113.801	1053.734	1009.955	1003.948
149.5	1667.648	1612.670	1489.480	1326.584	1185.068	1123.982	1063.915	1020.136	1014.435
150.0	1671.720	1614.707	1493.553	1333.711	1195.249	1133.145	1074.096	1031.335	1025.227
150.5	1673.756	1617.761	1495.589	1342.874	1203.394	1143.326	1084.277	1041.516	1036.426
151.0	1672.738	1617.761	1501.698	1347.964	1213.575	1152.489	1094.458	1052.715	1046.607
151.5	1676.811	1621.833	1505.770	1355.091	1222.738	1162.670	1103.620	1063.915	1057.806
152.0	1676.811	1621.833	1508.824	1362.218	1231.901	1171.833	1113.801	1074.096	1069.005
152.5	1677.829	1624.888	1512.897	1369.345	1240.046	1180.996	1123.982	1084.277	1079.186
153.0	1679.865	1624.888	1515.951	1375.453	1249.209	1190.159	1134.163	1095.476	1090.385
153.5	1679.865	1625.906	1519.005	1382.580	1255.317	1200.340	1143.326	1105.657	1100.566
154.0	1682.919	1628.960	1523.078	1389.707	1263.462	1209.503	1153.507	1115.838	1111.765
154.5	1680.883	1630.996	1526.132	1393.779	1268.553	1218.666	1162.670	1127.037	1122.964
155.0	1682.919	1632.014	1531.222	1398.869	1276.697	1227.829	1171.833	1137.218	1133.145
155.5	1682.919	1632.014	1533.259	1405.996	1285.860	1236.992	1182.014	1148.417	1144.344
156.0	1682.919	1632.014	1536.313	1412.105	1294.005	1245.136	1191.177	1157.580	1154.525
156.5	1683.937	1632.014	1538.349	1417.195	1301.132	1254.299	1200.340	1167.761	1164.706
157.0	1680.883	1634.051	1540.385	1422.286	1309.277	1260.408	1209.503	1177.942	1175.906
157.5	1682.919	1635.069	1544.458	1429.412	1317.421	1268.553	1218.666	1189.141	1186.087
158.0	1681.901	1636.087	1548.530	1432.467	1324.548	1276.697	1227.829	1199.322	1197.286
158.5	1680.883	1636.087	1550.566	1439.593	1333.711	1280.770	1236.992	1209.503	1207.467
159.0	1682.919	1635.069	1551.584	1443.666	1338.802	1289.933	1245.136	1218.666	1217.648
159.5	1681.901	1634.051	1554.639	1449.774	1346.946	1299.096	1251.245	1228.847	1227.829
160.0	1681.901	1635.069	1555.657	1454.865	1354.073	1307.240	1260.408	1238.010	1239.028
160.5	1680.883	1634.051	1556.675	1456.901	1363.236	1315.385	1267.535	1245.136	1249.209
161.0	1680.883	1635.069	1557.693	1464.028	1367.308	1322.512	1276.697	1254.299	1259.390
161.5	1678.847	1632.014	1560.747	1468.100	1373.417	1330.657	1282.806	1263.462	1269.571
162.0	1677.829	1629.978	1562.784	1472.173	1380.544	1336.765	1290.951	1272.625	1273.643
162.5	1674.775	1630.996	1561.765	1473.191	1386.652	1345.928	1300.114	1279.752	1284.842
163.0	1674.775	1628.960	1562.784	1478.281	1393.779	1353.055	1309.277	1288.915	1292.987
163.5	1670.702	1628.960	1563.802	1481.336	1398.869	1360.182	1316.403	1298.078	1302.150
164.0	1669.684	1626.924	1563.802	1485.408	1405.996	1367.308	1322.512	1307.240	1311.313
164.5	1666.630	1623.870	1564.820	1488.462	1412.105	1373.417	1332.693	1315.385	1320.476
165.0	1666.630	1621.833	1564.820	1492.535	1415.159	1380.544	1338.802	1323.530	1329.639
165.5	1663.575	1619.797	1564.820	1493.553	1422.286	1388.688	1347.964	1330.657	1338.802
166.0	1661.539	1618.779	1562.784	1496.607	1428.394	1393.779	1355.091	1338.802	1350.001
166.5	1658.485	1616.743	1562.784	1499.661	1431.449	1400.906	1362.218	1345.928	1360.182

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	1657.467	1613.689	1562.784	1500.679	1438.575	1408.032	1369.345	1359.164	1367.308
167.5	1653.394	1610.634	1562.784	1502.716	1441.630	1412.105	1376.471	1364.254	1375.453
168.0	1648.304	1607.580	1563.802	1506.788	1446.720	1418.213	1383.598	1372.399	1383.598
168.5	1646.268	1606.562	1559.729	1506.788	1451.811	1424.322	1391.743	1380.544	1391.743
169.0	1641.177	1602.489	1558.711	1508.824	1454.865	1429.412	1396.833	1387.670	1399.888
169.5	1638.123	1598.417	1556.675	1509.842	1457.919	1434.503	1404.978	1393.779	1409.050
170.0	1634.051	1595.363	1555.657	1510.860	1461.992	1440.612	1410.069	1401.924	1415.159
170.5	1627.942	1591.290	1555.657	1511.879	1467.082	1446.720	1417.195	1408.032	1424.322
171.0	1623.870	1589.254	1553.621	1513.915	1469.118	1450.793	1422.286	1416.177	1429.412
171.5	1617.761	1584.164	1552.603	1514.933	1472.173	1457.919	1428.394	1422.286	1437.557
172.0	1615.725	1579.073	1548.530	1515.951	1476.245	1460.974	1434.503	1430.431	1442.648
172.5	1610.634	1577.037	1546.494	1519.005	1479.299	1466.064	1440.612	1435.521	1449.774
173.0	1607.580	1570.928	1544.458	1516.969	1482.354	1469.118	1445.702	1442.648	1455.883
173.5	1600.453	1566.856	1540.385	1516.969	1484.390	1474.209	1452.829	1448.756	1463.010
174.0	1594.345	1562.784	1537.331	1519.005	1487.444	1478.281	1455.883	1454.865	1466.064
174.5	1590.272	1556.675	1536.313	1517.987	1488.462	1481.336	1461.992	1459.955	1473.191
175.0	1583.146	1552.603	1533.259	1521.041	1491.517	1485.408	1466.064	1466.064	1478.281
175.5	1577.037	1547.512	1528.168	1519.005	1492.535	1488.462	1470.136	1470.136	1483.372
176.0	1569.910	1541.403	1525.114	1520.023	1494.571	1491.517	1476.245	1475.227	1489.480
176.5	1565.838	1537.331	1525.114	1517.987	1495.589	1495.589	1480.317	1480.317	1495.589
177.0	1556.675	1533.259	1521.041	1516.969	1497.625	1497.625	1484.390	1483.372	1497.625
177.5	1550.566	1528.168	1519.005	1517.987	1497.625	1500.679	1486.426	1489.480	1501.698
178.0	1546.494	1525.114	1514.933	1515.951	1499.661	1503.734	1491.517	1494.571	1506.788
178.5	1542.422	1521.041	1511.879	1513.915	1500.679	1504.752	1495.589	1498.643	1510.860
179.0	1536.313	1515.951	1509.842	1512.897	1501.698	1508.824	1497.625	1501.698	1516.969
179.5	1531.222	1512.897	1506.788	1512.897	1500.679	1508.824	1500.679	1504.752	1521.041
180.0	1509.842	1509.842	1509.842	1509.842	1509.842	1509.842	1509.842	1509.842	1509.842

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	554.34	N.A.	5.50
0-30	1175.91	N.A.	11.70
0-40	1925.35	N.A.	19.20
0-60	3473.26	N.A.	34.70
0-80	4638.25	N.A.	46.30
0-90	5004.64	N.A.	50.00
10-90	4861.31	N.A.	48.50
20-40	1371.02	N.A.	13.70
20-50	2162.59	N.A.	21.60
40-70	2203.47	N.A.	22.00
60-80	1164.99	N.A.	11.60
70-80	509.42	N.A.	5.10
80-90	366.39	N.A.	3.70
90-110	877.77	N.A.	8.80
90-120	1533.62	N.A.	15.30
90-130	2291.94	N.A.	22.90
90-150	3836.11	N.A.	38.30
90-180	5011.06	N.A.	50.00
110-180	4133.29	N.A.	41.30
0-180	10015.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.33
10-20	411.01
20-30	621.58
30-40	749.44
40-50	791.57
50-60	756.34
60-70	655.57
70-80	509.42
80-90	366.39
90-100	367.76
100-110	510.00
110-120	655.85
120-130	758.32
130-140	793.40
140-150	750.78
150-160	621.32
160-170	410.47
170-180	143.16

IES INDOOR REPORT
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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	109	109	109	109	101	101	101	101	85	85	85	70	70	70	57	57	57	51
1	98	93	88	84	90	86	82	78	72	69	66	60	57	55	48	47	45	40
2	89	80	73	68	81	74	68	63	62	58	54	51	48	45	41	39	37	32
3	81	70	62	56	74	65	58	52	55	49	45	45	41	38	36	33	31	27
4	73	62	53	47	67	57	50	44	48	42	38	40	35	32	32	29	26	22
5	67	55	46	40	62	51	43	37	43	37	32	36	31	27	29	25	23	19
6	62	49	41	34	57	45	38	32	39	32	28	32	27	24	26	23	20	17
7	57	44	36	30	52	41	33	28	35	29	25	29	24	21	24	20	17	15
8	53	40	32	26	49	37	30	25	32	26	22	27	22	19	22	18	16	13
9	49	37	29	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12
10	46	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11

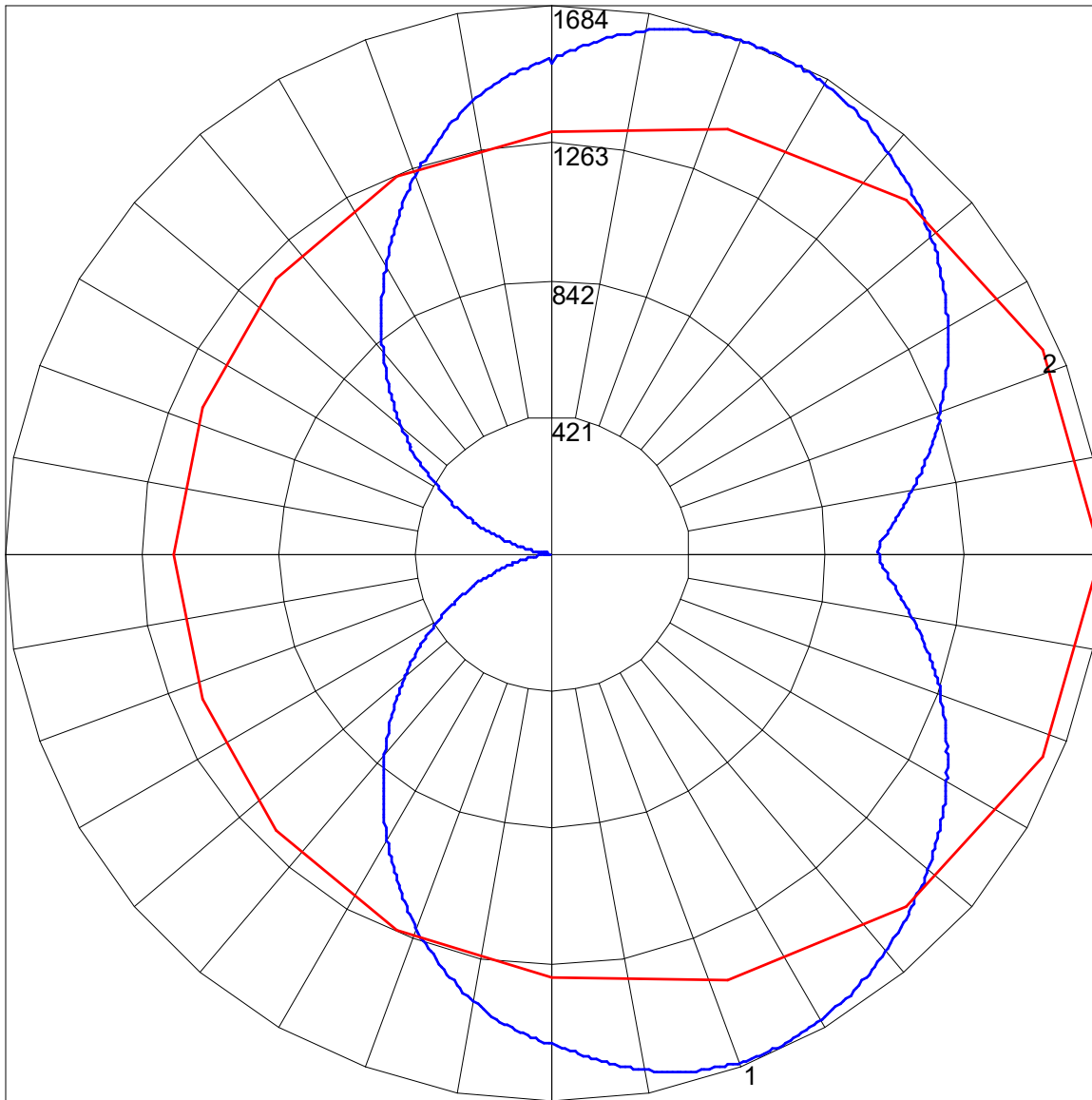
IES INDOOR REPORT
PHOTOMETRIC FILENAME : CW-4-L100-835-DMA-WHT-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.4	20.3	20.3	21.3	22.5	12.3	13.2	13.2	14.2	15.4
	3H	22.4	23.3	23.4	24.2	25.5	13.5	14.3	14.4	15.3	16.6
	4H	24.0	24.8	24.9	25.7	27.0	13.8	14.6	14.8	15.6	16.9
	6H	25.6	26.3	26.6	27.3	28.6	14.0	14.7	15.0	15.7	17.0
	8H	26.4	27.1	27.4	28.1	29.5	14.0	14.7	15.0	15.7	17.0
	12H	27.4	28.0	28.3	29.0	30.3	14.0	14.7	15.0	15.7	17.0
4H	2H	19.5	20.3	20.5	21.3	22.6	13.5	14.3	14.5	15.3	16.6
	3H	22.7	23.4	23.7	24.4	25.7	15.0	15.6	16.0	16.6	18.0
	4H	24.4	25.0	25.4	26.0	27.4	15.4	16.1	16.4	17.1	18.4
	6H	26.2	26.7	27.2	27.8	29.1	15.7	16.3	16.7	17.3	18.6
	8H	27.2	27.7	28.2	28.7	30.0	15.8	16.3	16.8	17.3	18.7
	12H	28.2	28.6	29.2	29.7	31.0	15.8	16.3	16.8	17.3	18.7
8H	4H	24.5	25.0	25.5	26.0	27.3	16.5	17.0	17.5	18.0	19.4
	6H	26.4	26.8	27.4	27.9	29.2	17.0	17.4	18.0	18.5	19.8
	8H	27.4	27.8	28.5	28.9	30.2	17.2	17.6	18.2	18.6	20.0
	12H	28.6	28.9	29.6	30.0	31.4	17.3	17.6	18.3	18.6	20.0
12H	4H	24.4	24.9	25.5	25.9	27.3	16.8	17.3	17.9	18.3	19.7
	6H	26.4	26.7	27.4	27.8	29.2	17.5	17.9	18.5	18.9	20.3
	8H	27.5	27.8	28.5	28.8	30.2	17.8	18.1	18.8	19.1	20.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1683.937 Located At Horizontal Angle = 0, Vertical Angle = 156.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (156.5) (Through Max. Cd.)