



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4792073931.02
 [TESTLAB] UL, LLC
 [ISSUE DATE] 1/6/2026
 [TEST DATE] 12/31/2025
 [MANUFAC] H E Williams Inc
 [LUMCAT] CMH-4-L50/835U/L50/835D-DMA-WHT-NL-DIM-UNV (DOWN ONLY)
 [LUMINAIRE] 4' wall mounted fixture with both up and down lighting com
 [MORE] partments
 [LAMP] (2) 56 LED boards - 112 Total LED
 [BALLAST] Eldoled OTI50/120-277/1A4 DIM-1 L G2 #57452
 [OTHER] 24.6 C, 120.054 V, 0.350207 A, 41.3721 W, 0.984025 PF, 59.9994
 [MORE] Hz
 [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	4901
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	41.3721
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17318	16963	18238
55	16265	15407	16696
65	15084	13806	14849
75	13768	12032	12089
85	12393	10304	7805

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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	1459.0	1459.0	1459.0	1459.0	1459.0	1459.0	1459.0	1459.0	1459.0
0.5	1464.0	1464.0	1460.0	1465.0	1455.0	1463.0	1454.0	1455.0	1457.0
1.0	1468.0	1467.0	1465.0	1466.0	1454.0	1461.0	1450.0	1451.0	1453.0
1.5	1473.0	1471.0	1466.0	1469.0	1454.0	1457.0	1448.0	1446.0	1446.0
2.0	1477.0	1476.0	1469.0	1469.0	1453.0	1454.0	1444.0	1442.0	1442.0
2.5	1483.0	1479.0	1473.0	1470.0	1452.0	1452.0	1440.0	1439.0	1438.0
3.0	1487.0	1484.0	1476.0	1470.0	1451.0	1450.0	1437.0	1433.0	1433.0
3.5	1492.0	1488.0	1478.0	1473.0	1451.0	1446.0	1432.0	1429.0	1430.0
4.0	1499.0	1492.0	1482.0	1473.0	1449.0	1442.0	1430.0	1424.0	1423.0
4.5	1502.0	1495.0	1485.0	1472.0	1448.0	1441.0	1425.0	1419.0	1417.0
5.0	1503.0	1499.0	1487.0	1475.0	1446.0	1436.0	1419.0	1414.0	1411.0
5.5	1509.0	1502.0	1487.0	1475.0	1443.0	1431.0	1416.0	1409.0	1408.0
6.0	1513.0	1504.0	1489.0	1474.0	1441.0	1430.0	1412.0	1405.0	1402.0
6.5	1516.0	1509.0	1491.0	1473.0	1439.0	1426.0	1407.0	1398.0	1396.0
7.0	1519.0	1512.0	1492.0	1473.0	1438.0	1423.0	1402.0	1392.0	1389.0
7.5	1521.0	1514.0	1493.0	1472.0	1433.0	1418.0	1396.0	1387.0	1382.0
8.0	1525.0	1515.0	1494.0	1469.0	1430.0	1413.0	1391.0	1381.0	1375.0
8.5	1526.0	1517.0	1495.0	1470.0	1429.0	1410.0	1386.0	1375.0	1368.0
9.0	1530.0	1519.0	1496.0	1468.0	1424.0	1405.0	1380.0	1367.0	1361.0
9.5	1532.0	1520.0	1496.0	1468.0	1421.0	1399.0	1374.0	1361.0	1359.0
10.0	1535.0	1523.0	1496.0	1466.0	1418.0	1395.0	1369.0	1355.0	1348.0
10.5	1538.0	1524.0	1497.0	1464.0	1413.0	1390.0	1363.0	1348.0	1343.0
11.0	1539.0	1524.0	1497.0	1461.0	1411.0	1385.0	1356.0	1343.0	1336.0
11.5	1540.0	1525.0	1496.0	1458.0	1405.0	1379.0	1350.0	1335.0	1327.0
12.0	1540.0	1525.0	1496.0	1457.0	1401.0	1376.0	1344.0	1328.0	1319.0
12.5	1544.0	1527.0	1495.0	1454.0	1398.0	1368.0	1337.0	1321.0	1312.0
13.0	1545.0	1527.0	1494.0	1451.0	1394.0	1363.0	1330.0	1313.0	1302.0
13.5	1545.0	1528.0	1493.0	1449.0	1387.0	1357.0	1324.0	1305.0	1296.0
14.0	1547.0	1528.0	1492.0	1446.0	1384.0	1349.0	1315.0	1297.0	1287.0
14.5	1548.0	1528.0	1489.0	1442.0	1379.0	1344.0	1308.0	1289.0	1278.0
15.0	1546.0	1527.0	1488.0	1439.0	1372.0	1338.0	1301.0	1281.0	1269.0
15.5	1547.0	1526.0	1486.0	1434.0	1366.0	1332.0	1293.0	1272.0	1264.0
16.0	1547.0	1526.0	1483.0	1430.0	1361.0	1325.0	1287.0	1264.0	1252.0
16.5	1547.0	1526.0	1483.0	1428.0	1356.0	1318.0	1279.0	1257.0	1246.0
17.0	1548.0	1523.0	1481.0	1423.0	1351.0	1310.0	1272.0	1248.0	1240.0
17.5	1546.0	1524.0	1478.0	1417.0	1344.0	1305.0	1263.0	1242.0	1230.0
18.0	1546.0	1521.0	1475.0	1414.0	1337.0	1295.0	1254.0	1233.0	1223.0
18.5	1547.0	1520.0	1472.0	1409.0	1330.0	1289.0	1250.0	1228.0	1214.0
19.0	1543.0	1519.0	1470.0	1405.0	1324.0	1281.0	1242.0	1219.0	1205.0
19.5	1544.0	1517.0	1466.0	1400.0	1317.0	1275.0	1233.0	1210.0	1195.0
20.0	1543.0	1514.0	1464.0	1394.0	1311.0	1267.0	1229.0	1201.0	1186.0
20.5	1541.0	1513.0	1459.0	1389.0	1305.0	1259.0	1220.0	1192.0	1176.0
21.0	1539.0	1510.0	1456.0	1382.0	1296.0	1251.0	1211.0	1183.0	1167.0
21.5	1538.0	1508.0	1452.0	1378.0	1290.0	1247.0	1203.0	1173.0	1157.0
22.0	1537.0	1505.0	1448.0	1373.0	1282.0	1237.0	1194.0	1164.0	1147.0
22.5	1535.0	1502.0	1444.0	1367.0	1274.0	1230.0	1185.0	1155.0	1138.0
23.0	1531.0	1500.0	1440.0	1361.0	1267.0	1220.0	1176.0	1145.0	1128.0
23.5	1528.0	1496.0	1437.0	1353.0	1258.0	1216.0	1167.0	1135.0	1118.0
24.0	1526.0	1493.0	1432.0	1348.0	1252.0	1208.0	1158.0	1126.0	1107.0
24.5	1524.0	1490.0	1428.0	1341.0	1243.0	1199.0	1149.0	1116.0	1098.0
25.0	1520.0	1487.0	1422.0	1336.0	1240.0	1190.0	1140.0	1106.0	1088.0
25.5	1515.0	1482.0	1418.0	1330.0	1233.0	1181.0	1131.0	1096.0	1077.0
26.0	1513.0	1479.0	1413.0	1321.0	1226.0	1172.0	1121.0	1087.0	1068.0
26.5	1509.0	1474.0	1408.0	1314.0	1217.0	1163.0	1112.0	1077.0	1057.0

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CANDELA TABULATION - (Cont.)

27.0	1504.0	1470.0	1404.0	1308.0	1208.0	1154.0	1102.0	1067.0	1047.0
27.5	1501.0	1467.0	1396.0	1302.0	1200.0	1145.0	1093.0	1057.0	1037.0
28.0	1499.0	1462.0	1390.0	1292.0	1191.0	1135.0	1084.0	1047.0	1026.0
28.5	1494.0	1457.0	1385.0	1287.0	1183.0	1126.0	1074.0	1037.0	1016.0
29.0	1489.0	1454.0	1380.0	1278.0	1173.0	1117.0	1064.0	1026.0	1006.0
29.5	1486.0	1447.0	1374.0	1269.0	1164.0	1107.0	1054.0	1016.0	995.5
30.0	1482.0	1442.0	1368.0	1263.0	1155.0	1097.0	1045.0	1006.0	985.3
30.5	1477.0	1437.0	1362.0	1255.0	1146.0	1088.0	1035.0	995.9	975.2
31.0	1474.0	1433.0	1356.0	1247.0	1137.0	1078.0	1025.0	985.8	964.9
31.5	1469.0	1429.0	1348.0	1243.0	1128.0	1068.0	1015.0	975.9	954.7
32.0	1463.0	1424.0	1343.0	1234.0	1118.0	1059.0	1005.0	965.5	944.7
32.5	1461.0	1418.0	1336.0	1229.0	1109.0	1049.0	994.9	955.5	934.4
33.0	1453.0	1414.0	1330.0	1221.0	1100.0	1039.0	984.8	945.1	923.9
33.5	1451.0	1407.0	1323.0	1212.0	1090.0	1029.0	974.8	935.0	913.8
34.0	1447.0	1401.0	1315.0	1204.0	1080.0	1019.0	964.8	925.1	903.4
34.5	1441.0	1395.0	1307.0	1195.0	1070.0	1010.0	954.7	914.8	893.2
35.0	1435.0	1389.0	1301.0	1186.0	1060.0	999.7	944.8	904.7	883.3
35.5	1430.0	1384.0	1295.0	1178.0	1051.0	989.7	934.9	894.5	872.9
36.0	1423.0	1376.0	1287.0	1169.0	1041.0	979.6	924.8	884.5	862.6
36.5	1418.0	1370.0	1281.0	1160.0	1030.0	969.6	914.4	874.7	852.3
37.0	1412.0	1365.0	1272.0	1151.0	1020.0	959.8	904.6	864.5	841.9
37.5	1406.0	1357.0	1264.0	1142.0	1010.0	949.5	894.6	854.1	832.2
38.0	1402.0	1350.0	1258.0	1133.0	1000.0	939.4	884.4	844.3	821.7
38.5	1393.0	1344.0	1248.0	1124.0	989.9	929.1	874.4	834.2	811.2
39.0	1387.0	1339.0	1241.0	1114.0	979.5	919.3	864.2	824.2	801.0
39.5	1380.0	1331.0	1240.0	1105.0	969.4	909.2	854.4	814.0	790.9
40.0	1376.0	1325.0	1232.0	1096.0	959.0	898.8	844.6	804.1	781.1
40.5	1367.0	1319.0	1224.0	1086.0	948.7	888.8	834.3	794.0	771.0
41.0	1360.0	1311.0	1216.0	1077.0	938.6	878.7	824.3	784.0	760.9
41.5	1352.0	1304.0	1208.0	1067.0	928.0	868.3	814.1	774.2	750.9
42.0	1348.0	1298.0	1199.0	1058.0	917.7	858.6	804.2	764.1	741.1
42.5	1341.0	1291.0	1191.0	1049.0	907.3	848.5	794.1	753.9	731.2
43.0	1333.0	1281.0	1183.0	1040.0	897.0	838.2	784.1	744.3	721.0
43.5	1328.0	1275.0	1175.0	1030.0	886.1	827.9	773.8	734.1	711.2
44.0	1320.0	1268.0	1166.0	1020.0	875.9	817.9	763.5	724.0	701.7
44.5	1313.0	1261.0	1157.0	1010.0	865.3	807.9	753.5	714.2	691.9
45.0	1307.0	1255.0	1149.0	1001.0	854.9	797.4	743.5	704.0	682.2
45.5	1298.0	1246.0	1140.0	991.2	844.6	787.1	733.1	694.2	672.1
46.0	1295.0	1239.0	1131.0	981.5	834.0	776.8	723.1	684.3	662.3
46.5	1286.0	1234.0	1123.0	971.6	823.4	766.7	712.8	674.3	652.9
47.0	1281.0	1230.0	1114.0	961.6	812.6	756.5	702.7	664.5	643.5
47.5	1275.0	1223.0	1105.0	951.9	801.8	746.1	692.7	654.6	633.4
48.0	1268.0	1215.0	1096.0	942.2	791.1	735.5	682.7	645.1	623.6
48.5	1259.0	1207.0	1087.0	932.4	780.6	725.1	672.5	635.3	613.9
49.0	1252.0	1199.0	1078.0	922.3	770.2	714.8	662.4	625.7	604.0
49.5	1245.0	1191.0	1069.0	912.3	759.6	704.7	652.5	616.1	594.6
50.0	1243.0	1184.0	1060.0	902.5	748.9	694.5	642.7	606.4	584.7
50.5	1233.0	1176.0	1051.0	892.6	738.3	683.9	632.5	597.1	575.2
51.0	1229.0	1168.0	1042.0	882.9	727.8	673.7	622.6	587.4	565.6
51.5	1221.0	1160.0	1032.0	872.8	717.3	663.2	612.5	577.7	556.2
52.0	1213.0	1151.0	1023.0	862.5	706.6	653.1	602.8	568.3	547.0
52.5	1206.0	1143.0	1014.0	852.7	696.1	643.0	593.0	558.8	537.4
53.0	1198.0	1135.0	1004.0	842.5	685.5	632.6	583.0	549.3	527.7
53.5	1190.0	1127.0	994.9	832.5	675.2	622.1	573.0	539.9	518.1
54.0	1182.0	1119.0	985.5	822.2	664.6	612.0	563.1	530.2	509.4
54.5	1174.0	1110.0	975.7	811.8	654.3	602.0	553.4	521.0	500.1

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CANDELA TABULATION - (Cont.)

55.0	1166.0	1102.0	966.4	801.8	643.8	591.7	543.5	511.4	490.4
55.5	1158.0	1093.0	957.0	791.3	633.4	581.3	533.8	501.9	481.2
56.0	1150.0	1085.0	947.5	781.2	622.8	571.1	524.0	492.8	471.6
56.5	1142.0	1076.0	937.6	770.6	612.2	560.9	514.0	483.0	462.7
57.0	1134.0	1068.0	928.0	760.1	601.7	550.7	504.5	474.1	453.8
57.5	1125.0	1059.0	918.3	749.7	591.2	540.4	495.0	464.4	444.2
58.0	1117.0	1050.0	908.7	738.9	580.5	530.1	485.1	455.3	434.9
58.5	1109.0	1041.0	899.1	728.5	569.9	520.0	475.6	446.0	425.5
59.0	1101.0	1032.0	889.0	717.7	559.1	509.9	466.1	436.6	416.6
59.5	1092.0	1023.0	879.2	707.0	548.2	499.6	456.7	427.5	407.5
60.0	1083.0	1014.0	869.2	696.6	537.5	489.3	447.3	418.3	398.3
60.5	1074.0	1005.0	859.7	686.2	526.9	479.1	437.8	409.2	389.1
61.0	1066.0	995.8	849.9	675.9	516.4	468.8	428.2	400.0	380.0
61.5	1057.0	986.8	840.1	665.4	505.7	458.8	418.6	390.8	370.8
62.0	1047.0	977.4	829.9	654.6	495.1	448.6	409.4	381.7	362.0
62.5	1038.0	967.9	820.0	644.1	484.3	438.5	399.8	372.4	352.7
63.0	1029.0	958.7	810.5	633.6	473.9	428.1	390.3	363.3	343.8
63.5	1020.0	949.0	800.7	623.0	463.3	417.8	380.8	354.2	334.6
64.0	1011.0	939.5	790.5	612.5	452.7	408.0	371.3	344.9	326.1
64.5	1001.0	930.1	780.9	602.0	442.3	397.8	361.6	335.8	317.7
65.0	991.4	920.7	770.5	591.1	431.7	387.8	351.9	326.8	308.4
65.5	981.9	910.9	760.6	580.3	421.0	377.6	342.6	317.7	299.6
66.0	972.3	900.8	750.7	569.9	410.5	367.5	332.9	308.8	291.0
66.5	962.9	891.2	740.5	559.3	400.2	357.3	323.7	299.6	282.4
67.0	952.9	881.4	730.6	548.7	389.7	347.3	314.5	290.8	274.1
67.5	943.2	871.6	720.2	537.8	379.2	337.5	305.2	281.9	265.4
68.0	933.5	861.8	710.2	527.1	368.4	327.8	295.9	273.1	256.5
68.5	923.4	851.7	700.2	516.4	357.9	317.6	286.5	264.3	247.7
69.0	914.4	841.9	689.7	506.0	347.6	307.9	277.2	255.5	239.6
69.5	904.4	832.2	679.8	495.6	337.3	297.9	268.3	246.9	231.2
70.0	894.7	822.0	669.5	485.2	326.9	288.2	259.3	238.3	222.7
70.5	884.8	812.0	659.3	474.7	316.7	278.4	250.3	229.5	214.1
71.0	875.2	801.9	649.1	464.2	306.2	268.8	241.3	221.2	205.7
71.5	865.3	791.8	638.7	453.9	296.4	259.2	232.6	212.9	197.4
72.0	855.5	781.6	628.6	443.8	286.1	249.6	223.7	204.6	189.7
72.5	845.4	771.6	618.4	433.6	275.3	240.1	215.0	196.6	181.2
73.0	835.6	761.5	608.4	423.6	265.4	230.8	206.5	188.2	173.2
73.5	825.5	751.2	598.5	413.3	255.4	221.8	197.9	180.0	165.0
74.0	815.5	741.1	588.2	403.2	245.4	212.7	189.4	172.1	157.3
74.5	805.4	731.0	578.0	393.2	235.8	203.7	181.1	164.2	150.0
75.0	795.3	720.9	567.9	383.2	226.1	194.7	172.9	156.5	142.1
75.5	785.2	710.6	558.0	373.2	216.5	185.9	164.6	148.5	134.5
76.0	775.1	700.6	548.3	363.3	207.0	177.3	156.4	141.0	127.2
76.5	764.5	690.3	538.3	353.5	197.5	168.8	148.2	133.2	120.1
77.0	754.3	680.5	528.4	343.6	188.2	160.3	140.5	125.9	113.3
77.5	744.0	670.4	518.6	334.0	178.8	151.9	132.7	118.5	106.3
78.0	734.0	660.5	508.9	324.5	170.0	143.5	125.0	111.4	99.5
78.5	723.3	650.6	499.2	315.2	161.1	135.3	117.4	104.3	92.7
79.0	713.3	640.4	489.6	305.8	152.4	127.4	109.9	97.3	85.8
79.5	703.0	630.6	480.0	296.5	143.7	119.6	102.5	90.3	79.5
80.0	692.9	620.7	470.6	287.5	135.0	111.9	95.4	83.7	73.1
80.5	682.6	611.0	461.0	278.7	126.7	104.3	88.4	77.1	66.9
81.0	672.7	601.3	452.0	270.0	118.6	96.9	81.6	70.7	60.5
81.5	662.6	591.1	442.9	261.4	110.8	89.7	74.8	64.4	54.3
82.0	652.5	581.5	433.9	252.8	103.1	82.7	68.2	58.2	48.6
82.5	642.8	572.6	425.2	244.4	95.4	76.0	61.9	52.4	42.9

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES

CANDELA TABULATION - (Cont.)

83.0	633.1	563.1	416.3	236.4	88.0	69.2	55.7	46.6	37.3
83.5	623.7	553.5	407.6	228.5	80.9	62.5	49.8	40.9	31.8
84.0	614.3	544.4	399.3	220.9	74.0	56.2	44.0	35.4	26.3
84.5	604.7	535.2	391.0	213.2	67.2	50.1	38.1	29.9	21.4
85.0	595.5	525.9	382.8	205.9	60.6	44.2	32.5	24.8	16.8
85.5	586.3	517.0	374.2	198.6	54.1	38.3	27.0	19.9	12.8
86.0	577.4	508.1	366.0	191.6	47.8	32.6	21.8	15.5	9.9
86.5	568.3	499.2	358.3	184.6	41.7	27.0	16.8	12.0	7.8
87.0	559.2	490.6	350.2	178.0	35.9	21.6	12.4	9.3	6.5
87.5	550.1	482.1	342.6	171.3	30.1	16.3	9.2	7.5	5.6
88.0	541.5	473.8	334.8	164.6	24.2	11.2	7.0	6.3	5.0
88.5	532.4	465.3	326.9	157.8	18.3	7.0	5.7	5.4	4.6
89.0	523.6	457.2	319.6	151.2	12.2	5.0	5.0	5.0	4.4
89.5	515.1	449.1	312.2	144.6	6.9	4.2	4.7	4.7	4.3
90.0	506.4	441.0	305.2	138.5	4.0	4.0	4.5	4.6	4.3
90.5	497.5	433.3	298.5	132.8	3.5	3.9	4.4	4.5	4.1
91.0	489.3	426.0	292.0	128.9	3.4	3.8	4.3	4.5	4.1
91.5	481.0	419.2	286.4	127.1	3.4	3.8	4.3	4.4	4.0
92.0	473.6	413.1	282.7	126.3	3.4	3.7	4.3	4.3	4.0
92.5	466.2	408.1	280.2	125.5	3.3	3.7	4.2	4.3	4.0
93.0	460.1	404.3	278.5	125.1	3.2	3.7	4.2	4.3	4.0
93.5	454.8	401.3	277.2	124.3	3.2	3.7	4.2	4.2	4.0
94.0	451.0	399.0	275.7	123.7	3.2	3.7	4.2	4.2	4.0
94.5	448.2	396.9	273.9	123.1	3.2	3.6	4.2	4.3	4.0
95.0	445.6	394.8	272.8	122.3	3.2	3.6	4.1	4.2	3.9
95.5	443.0	392.8	271.4	121.7	3.2	3.7	4.1	4.2	4.0
96.0	440.6	390.4	269.8	121.0	3.2	3.6	4.2	4.3	4.0
96.5	438.0	388.1	268.4	120.5	3.1	3.6	4.2	4.2	4.0
97.0	435.4	386.0	267.0	119.9	3.1	3.6	4.2	4.2	4.0
97.5	432.9	383.6	265.6	119.2	3.2	3.6	4.2	4.3	4.0
98.0	430.0	381.3	264.4	118.5	3.1	3.6	4.2	4.3	3.9
98.5	427.4	379.0	263.1	117.9	3.2	3.6	4.1	4.2	4.0
99.0	424.7	376.8	261.8	117.1	3.2	3.6	4.2	4.2	4.0
99.5	422.1	374.4	260.4	116.5	3.1	3.6	4.1	4.3	4.1
100.0	419.3	372.1	259.1	115.7	3.1	3.6	4.1	4.3	4.0
100.5	416.6	369.7	257.6	115.0	3.1	3.6	4.1	4.3	4.0
101.0	414.0	367.3	256.3	114.3	3.2	3.6	4.2	4.3	4.0
101.5	411.2	364.6	254.7	113.6	3.1	3.7	4.2	4.3	4.0
102.0	408.4	362.5	253.2	112.9	3.1	3.5	4.2	4.3	4.1
102.5	405.6	360.0	251.6	112.1	3.1	3.6	4.2	4.3	4.1
103.0	403.1	357.5	250.0	111.4	3.2	3.6	4.2	4.3	4.1
103.5	400.2	355.1	248.4	110.6	3.2	3.6	4.2	4.3	4.1
104.0	397.8	352.5	246.9	109.9	3.2	3.5	4.2	4.4	4.1
104.5	394.7	350.2	245.1	109.1	3.2	3.6	4.2	4.3	4.1
105.0	392.1	347.7	243.5	108.3	3.2	3.6	4.3	4.4	4.1
105.5	389.1	345.2	241.8	107.6	3.3	3.6	4.2	4.4	4.1
106.0	386.2	342.7	240.1	106.8	3.2	3.6	4.3	4.4	4.2
106.5	383.4	340.1	238.4	106.1	3.3	3.6	4.3	4.5	4.1
107.0	380.6	337.6	236.7	105.3	3.3	3.6	4.3	4.4	4.2
107.5	377.8	335.0	235.0	104.6	3.3	3.6	4.3	4.4	4.2
108.0	374.9	332.4	233.5	103.8	3.4	3.6	4.3	4.5	4.2
108.5	371.9	329.8	231.8	103.1	3.4	3.7	4.3	4.4	4.3
109.0	369.1	327.2	230.2	102.3	3.4	3.6	4.3	4.5	4.3
109.5	366.1	325.0	228.4	101.5	3.4	3.7	4.4	4.5	4.3
110.0	363.2	322.2	226.8	100.8	3.4	3.7	4.4	4.5	4.4
110.5	360.3	319.8	225.0	100.0	3.4	3.7	4.4	4.5	4.4

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES

CANDELA TABULATION - (Cont.)

111.0	357.4	317.2	223.2	99.3	3.4	3.8	4.4	4.6	4.4
111.5	354.7	314.6	221.7	98.6	3.4	3.8	4.4	4.6	4.4
112.0	351.7	312.2	219.8	97.8	3.4	3.8	4.4	4.6	4.3
112.5	348.8	309.7	218.2	97.0	3.5	3.8	4.4	4.6	4.4
113.0	345.6	307.2	216.6	96.2	3.5	3.8	4.4	4.6	4.4
113.5	342.8	304.7	214.7	95.5	3.5	3.9	4.4	4.6	4.4
114.0	339.7	301.9	212.9	94.7	3.5	3.9	4.5	4.6	4.4
114.5	336.7	299.3	211.2	93.9	3.5	3.9	4.4	4.7	4.4
115.0	333.7	296.9	209.5	93.2	3.6	4.0	4.4	4.7	4.5
115.5	330.9	294.3	207.7	92.4	3.6	4.0	4.4	4.7	4.5
116.0	327.8	291.6	206.1	91.6	3.6	4.0	4.5	4.7	4.5
116.5	325.0	289.2	204.1	90.9	3.6	4.0	4.5	4.7	4.5
117.0	321.9	286.7	202.5	90.1	3.7	4.0	4.6	4.7	4.6
117.5	319.0	283.9	200.6	89.3	3.7	4.1	4.6	4.7	4.5
118.0	316.1	281.2	198.8	88.6	3.7	4.1	4.5	4.8	4.6
118.5	312.9	278.7	197.1	87.7	3.7	4.2	4.7	4.7	4.6
119.0	310.1	276.0	195.4	87.0	3.8	4.2	4.7	4.8	4.7
119.5	307.3	273.3	193.5	86.2	3.8	4.2	4.7	4.8	4.6
120.0	304.2	270.9	191.7	85.4	3.9	4.2	4.7	4.8	4.7
120.5	301.2	268.3	189.9	84.6	3.9	4.3	4.7	4.9	4.7
121.0	298.2	265.6	188.2	83.8	3.9	4.3	4.7	4.9	4.8
121.5	295.3	263.2	186.4	82.9	3.9	4.3	4.7	4.9	4.8
122.0	292.3	260.6	184.7	82.2	3.9	4.4	4.8	5.0	4.8
122.5	289.5	257.8	182.8	81.4	3.9	4.4	4.8	4.9	4.8
123.0	286.6	255.4	181.0	80.5	4.0	4.5	4.9	5.0	4.8
123.5	283.7	252.6	179.4	79.7	4.0	4.5	4.9	5.0	4.8
124.0	280.8	250.1	177.5	78.9	4.0	4.5	5.0	5.1	4.9
124.5	277.9	247.4	175.5	78.1	4.1	4.6	5.0	5.1	5.0
125.0	275.2	244.9	173.9	77.2	4.1	4.6	5.0	5.1	4.9
125.5	272.2	242.3	172.0	76.5	4.1	4.6	5.1	5.2	5.0
126.0	269.2	239.7	170.3	75.6	4.1	4.6	5.1	5.1	5.0
126.5	266.2	237.3	168.2	74.8	4.1	4.7	5.1	5.2	5.0
127.0	263.5	234.7	166.6	74.0	4.2	4.7	5.1	5.3	5.0
127.5	260.7	232.1	164.8	73.2	4.2	4.7	5.2	5.3	5.1
128.0	257.7	229.6	162.8	72.3	4.2	4.7	5.3	5.3	5.1
128.5	254.9	227.0	161.1	71.5	4.3	4.8	5.2	5.4	5.1
129.0	252.1	224.5	159.3	70.7	4.3	4.8	5.3	5.3	5.1
129.5	249.1	221.9	157.5	69.9	4.3	4.8	5.3	5.4	5.1
130.0	246.4	219.3	155.8	69.1	4.3	4.8	5.3	5.4	5.2
130.5	243.6	216.7	153.9	68.3	4.4	4.9	5.4	5.4	5.2
131.0	240.6	214.0	152.1	67.4	4.4	4.9	5.3	5.5	5.2
131.5	237.9	211.7	150.3	66.6	4.4	4.9	5.4	5.5	5.3
132.0	234.8	209.1	148.5	65.8	4.4	4.9	5.4	5.5	5.3
132.5	232.1	206.4	146.7	65.0	4.5	5.0	5.4	5.5	5.1
133.0	229.4	204.1	144.9	64.2	4.5	5.0	5.4	5.6	5.4
133.5	226.4	201.5	143.1	63.3	4.6	5.1	5.4	5.6	5.4
134.0	223.6	199.0	141.2	62.6	4.6	5.1	5.5	5.6	5.5
134.5	220.8	196.4	139.4	61.7	4.6	5.1	5.5	5.7	5.4
135.0	217.9	193.9	137.6	61.0	4.6	5.1	5.4	5.7	5.6
135.5	215.2	191.2	135.8	60.1	4.7	5.1	5.6	5.8	5.5
136.0	212.3	188.7	133.7	59.4	4.7	5.2	5.6	5.7	5.6
136.5	209.4	186.2	132.1	58.4	4.7	5.1	5.6	5.8	5.4
137.0	206.6	183.5	130.2	57.6	4.8	5.1	5.6	5.9	5.7
137.5	203.5	181.0	128.5	56.9	4.9	5.4	5.6	5.7	5.7
138.0	200.7	178.4	126.4	55.8	4.6	5.1	5.3	5.6	4.9
138.5	197.9	175.9	124.7	55.0	4.7	5.1	5.5	5.8	5.3

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES

CANDELA TABULATION - (Cont.)

139.0	195.4	173.4	122.9	54.1	4.7	5.1	5.5	5.8	5.4
139.5	192.3	170.7	121.0	53.1	4.9	5.2	5.6	5.9	5.5
140.0	189.5	168.3	119.3	52.2	4.9	5.2	5.6	5.9	5.6
140.5	186.8	165.9	117.5	51.2	5.0	5.3	5.7	6.0	5.7
141.0	183.9	163.3	115.7	50.2	5.1	5.4	5.7	6.0	5.7
141.5	181.1	160.9	113.9	49.2	5.1	5.4	5.7	6.0	5.7
142.0	178.5	158.5	112.0	48.3	5.1	5.4	5.6	6.0	5.7
142.5	175.7	155.9	110.3	47.3	5.1	5.4	5.6	6.0	5.7
143.0	172.7	153.2	108.4	46.5	5.1	5.4	5.6	6.0	5.7
143.5	170.0	150.7	106.6	45.7	5.1	5.4	5.6	6.0	5.8
144.0	167.2	148.3	104.8	44.9	5.2	5.4	5.5	5.9	5.7
144.5	164.7	145.9	103.0	44.0	5.3	5.4	5.6	5.9	5.7
145.0	161.8	143.4	101.2	43.3	5.3	5.4	5.6	5.9	5.8
145.5	159.1	140.9	99.4	42.5	5.3	5.5	5.5	5.9	5.8
146.0	156.2	138.2	97.5	41.8	5.4	5.5	5.5	5.9	5.8
146.5	153.8	135.8	95.8	41.0	5.4	5.5	5.5	5.8	5.8
147.0	151.1	133.1	93.9	40.2	5.4	5.5	5.5	5.7	5.7
147.5	148.4	130.8	92.2	39.5	5.5	5.7	5.5	5.7	5.7
148.0	145.5	128.3	90.4	38.7	5.5	5.6	5.5	5.7	5.7
148.5	142.9	125.8	88.6	37.9	5.6	5.6	5.6	5.7	5.8
149.0	140.0	123.4	86.8	37.1	5.7	5.7	5.5	5.6	5.7
149.5	137.6	120.9	85.0	36.4	5.7	5.8	5.5	5.6	5.8
150.0	134.6	118.3	83.2	35.7	5.7	5.8	5.5	5.6	5.8
150.5	131.9	115.8	81.5	35.0	5.7	5.9	5.5	5.6	5.8
151.0	129.1	113.3	79.8	34.3	5.8	5.9	5.6	5.5	5.7
151.5	126.5	110.9	78.0	33.5	5.9	5.9	5.6	5.6	5.8
152.0	123.8	108.5	76.3	32.8	6.0	6.0	5.6	5.5	5.7
152.5	121.0	106.0	74.6	32.1	6.0	6.0	5.7	5.5	5.8
153.0	118.3	103.5	72.9	31.4	6.1	6.1	5.6	5.5	5.8
153.5	115.6	101.1	71.1	30.7	6.2	6.1	5.7	5.5	5.8
154.0	112.9	98.7	69.4	30.0	6.2	6.2	5.7	5.4	5.9
154.5	110.2	96.3	67.5	29.3	6.2	6.2	5.7	5.4	6.0
155.0	107.4	93.8	65.6	28.6	6.3	6.4	5.8	5.4	5.9
155.5	104.8	91.5	63.5	28.0	6.4	6.3	5.8	5.4	6.0
156.0	102.0	89.1	61.4	27.2	6.4	6.5	5.9	5.4	5.9
156.5	99.3	86.8	59.5	26.6	6.5	6.5	5.9	5.3	5.9
157.0	96.4	84.3	57.6	26.0	6.6	6.6	5.9	5.3	6.0
157.5	91.9	82.0	55.7	25.2	6.6	6.6	6.0	5.3	6.0
158.0	87.3	79.7	54.1	24.5	6.7	6.6	6.0	5.3	6.0
158.5	83.7	77.4	52.5	23.9	6.7	6.7	6.0	5.3	6.0
159.0	81.0	75.1	50.9	23.2	6.8	6.7	6.0	5.3	6.0
159.5	78.7	72.7	49.3	22.6	6.8	6.7	6.1	5.3	6.0
160.0	75.5	70.2	47.8	21.9	6.9	6.8	6.1	5.3	6.0
160.5	73.2	67.6	46.3	21.3	7.0	6.9	6.2	5.3	6.1
161.0	70.1	64.8	44.8	20.7	7.0	6.9	6.2	5.3	6.0
161.5	68.2	62.2	43.2	20.0	7.0	6.9	6.3	5.3	6.0
162.0	66.9	59.7	41.8	19.4	7.0	7.0	6.3	5.3	5.8
162.5	64.2	57.3	40.3	18.8	7.1	7.1	6.3	5.3	5.6
163.0	61.2	55.0	38.9	18.2	7.2	7.1	6.4	5.3	5.3
163.5	58.4	52.8	37.5	17.5	7.2	7.2	6.4	5.3	5.2
164.0	56.0	50.8	36.0	16.9	7.2	7.2	6.4	5.3	5.1
164.5	53.8	48.7	34.6	16.2	7.3	7.2	6.5	5.4	4.9
165.0	51.7	46.6	33.2	15.6	7.3	7.2	6.5	5.4	4.9
165.5	49.6	44.5	31.9	14.9	7.4	7.3	6.5	5.4	4.9
166.0	47.6	42.6	30.4	14.3	7.4	7.3	6.6	5.4	4.7
166.5	45.4	40.6	29.1	13.7	7.4	7.4	6.5	5.4	4.7

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES****CANDELA TABULATION - (Cont.)**

167.0	43.0	38.6	27.8	13.2	7.5	7.4	6.6	5.5	4.7
167.5	40.7	36.8	26.5	12.7	7.6	7.4	6.6	5.6	4.7
168.0	38.8	34.9	25.2	12.2	7.6	7.5	6.7	5.6	4.8
168.5	36.8	32.6	23.9	11.8	7.6	7.5	6.8	5.7	4.7
169.0	34.8	30.2	22.6	11.3	7.7	7.5	6.7	5.7	4.6
169.5	32.8	28.5	21.3	10.7	7.6	7.5	6.7	5.7	4.5
170.0	30.8	26.7	20.0	10.3	7.6	7.6	6.8	5.7	4.5
170.5	28.9	25.0	18.8	9.9	7.7	7.6	6.9	5.8	4.6
171.0	26.8	23.4	17.6	9.6	7.7	7.6	7.0	5.8	4.7
171.5	25.0	21.8	16.3	9.3	7.8	7.7	7.1	6.0	4.7
172.0	23.4	20.3	15.2	8.9	7.9	7.7	7.1	6.0	4.5
172.5	21.7	18.9	14.0	8.6	7.8	7.7	7.1	6.0	4.4
173.0	20.1	17.3	13.0	8.4	7.9	7.7	7.1	6.0	4.3
173.5	18.6	15.8	12.1	8.2	7.8	7.7	7.1	6.0	4.4
174.0	16.9	14.3	11.1	8.0	7.8	7.7	7.1	6.1	4.3
174.5	15.1	12.9	10.3	7.8	7.9	7.7	7.0	6.1	4.3
175.0	13.3	11.5	9.5	7.7	7.9	7.7	7.0	6.0	4.2
175.5	11.6	10.3	8.8	7.7	7.8	7.6	7.1	6.1	4.2
176.0	10.1	9.2	8.2	7.6	7.9	7.7	7.0	6.2	4.3
176.5	8.8	8.3	7.7	7.7	7.8	7.7	7.1	6.3	4.4
177.0	7.5	7.6	7.4	7.7	8.0	7.7	7.1	6.2	4.4
177.5	6.1	7.0	7.2	7.7	7.9	7.7	7.1	6.2	4.3
178.0	5.1	6.6	7.1	7.7	7.9	7.7	7.0	6.3	4.4
178.5	4.7	6.4	7.1	7.7	7.9	7.7	7.0	6.2	4.3
179.0	4.4	6.3	7.1	7.7	7.9	7.7	7.1	6.2	4.3
179.5	4.3	6.4	7.1	7.7	7.9	7.7	7.1	6.3	4.4
180.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	531.40	N.A.	10.80
0-30	1119.9	N.A.	22.80
0-40	1819.46	N.A.	37.10
0-60	3212.77	N.A.	65.50
0-80	4143.86	N.A.	84.50
0-90	4363.46	N.A.	89.00
10-90	4225.33	N.A.	86.20
20-40	1288.06	N.A.	26.30
20-50	2011.75	N.A.	41.00
40-70	1941.7	N.A.	39.60
60-80	931.08	N.A.	19.00
70-80	382.69	N.A.	7.80
80-90	219.60	N.A.	4.50
90-110	262.36	N.A.	5.40
90-120	359.89	N.A.	7.30
90-130	433.47	N.A.	8.80
90-150	515.60	N.A.	10.50
90-180	537.84	N.A.	11.00
110-180	275.48	N.A.	5.60
0-180	4901.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.13
10-20	393.27
20-30	588.49
30-40	699.57
40-50	723.69
50-60	669.62
60-70	548.39
70-80	382.69
80-90	219.60
90-100	141.63
100-110	120.73
110-120	97.53
120-130	73.58
130-140	50.97
140-150	31.16
150-160	15.73
160-170	5.57
170-180	0.94

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.IES

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	91	101	96	92	88	90	86	83	84	81	79	79	77	75	72
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	68	65	62	59
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49
4	79	67	58	51	76	65	56	50	61	53	48	57	51	46	54	48	44	42
5	72	59	50	43	70	58	49	43	54	47	41	51	45	40	48	43	38	36
6	67	53	44	38	64	52	43	37	49	42	36	46	40	35	44	38	34	31
7	62	48	40	33	60	47	39	33	44	37	32	42	36	31	40	34	30	28
8	58	44	36	30	55	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	27	52	39	32	26	37	30	26	36	29	25	34	28	24	22
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	31	26	22	20

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-L50-835-DMA-WHT-DIM-UNV DOWN ONLY_.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

X=2H	Y=2H	23.5	25.0	24.1	25.5	26.1	18.7	20.1	19.2	20.6	21.2
	3H	26.3	27.6	26.8	28.1	28.7	20.0	21.3	20.5	21.8	22.5
	4H	27.6	28.9	28.2	29.4	30.0	20.4	21.7	21.0	22.2	22.8
	6H	29.0	30.2	29.6	30.7	31.4	20.7	21.8	21.2	22.4	23.0
	8H	29.7	30.8	30.3	31.4	32.1	20.7	21.8	21.3	22.4	23.1
	12H	30.5	31.6	31.1	32.2	32.8	20.7	21.8	21.3	22.4	23.1

UGR Viewed Endwise

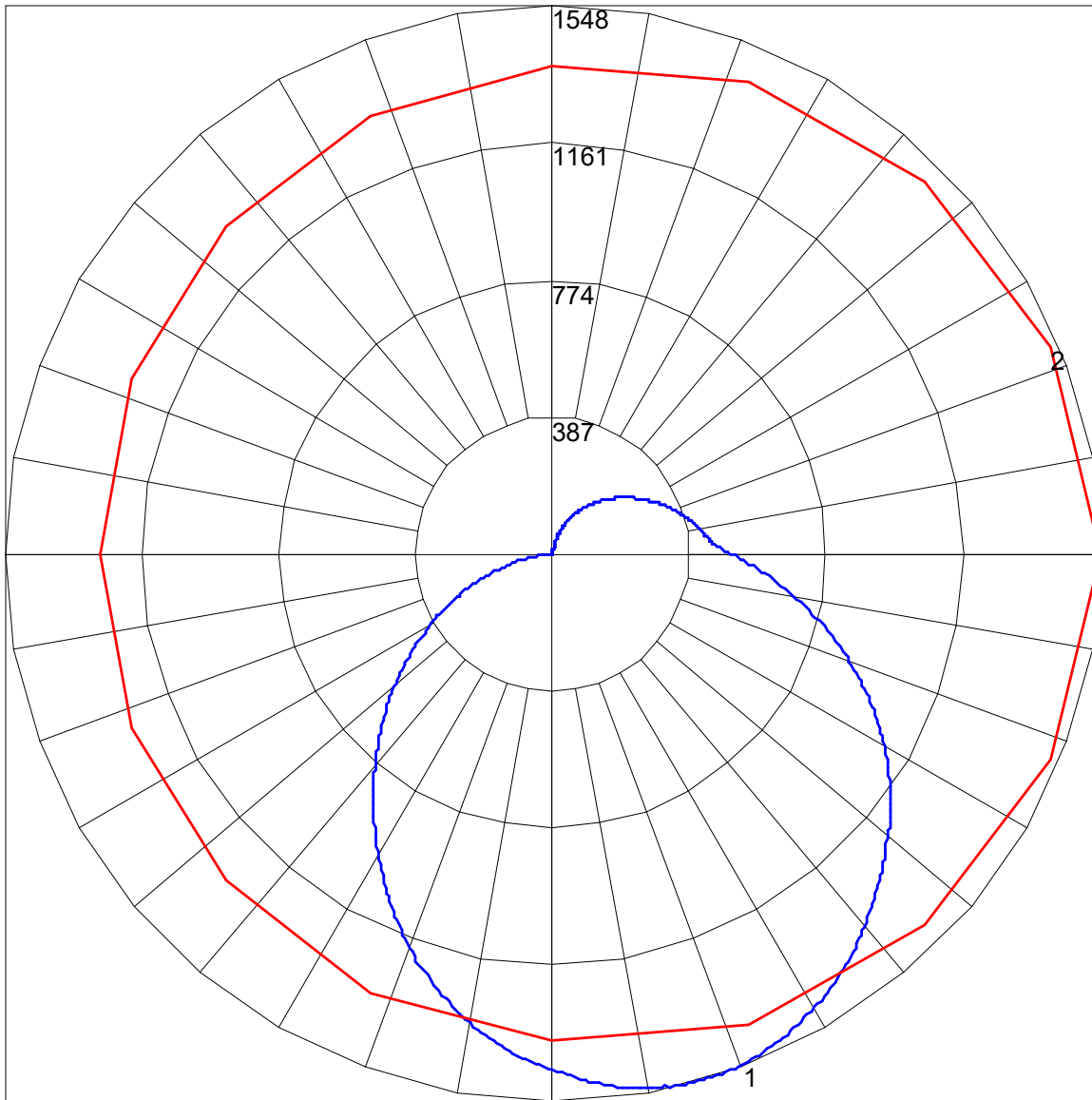
4H	2H	23.8	25.1	24.4	25.6	26.3	19.6	20.9	20.2	21.4	22.0
	3H	26.8	27.9	27.4	28.4	29.1	21.2	22.3	21.8	22.9	23.5
	4H	28.3	29.3	28.9	29.9	30.5	21.8	22.7	22.4	23.3	24.0
	6H	29.9	30.7	30.5	31.4	32.1	22.1	23.0	22.8	23.6	24.3
	8H	30.7	31.5	31.3	32.1	32.8	22.2	23.0	22.8	23.6	24.3
	12H	31.6	32.3	32.3	33.0	33.7	22.3	23.0	22.9	23.6	24.4

8H	4H	28.5	29.2	29.1	29.9	30.6	22.5	23.3	23.1	23.9	24.7
	6H	30.2	30.8	30.8	31.5	32.2	23.1	23.7	23.7	24.4	25.1
	8H	31.1	31.7	31.8	32.4	33.1	23.2	23.8	23.9	24.5	25.2
	12H	32.2	32.7	32.8	33.4	34.2	23.3	23.9	24.0	24.5	25.3

12H	4H	28.4	29.2	29.1	29.8	30.5	22.7	23.5	23.4	24.1	24.8
	6H	30.2	30.8	30.9	31.5	32.2	23.4	24.0	24.0	24.6	25.4
	8H	31.2	31.7	31.9	32.4	33.2	23.6	24.2	24.3	24.8	25.6

Maximum UGR = 34.2

POLAR GRAPH



Maximum Candela = 1548 Located At Horizontal Angle = 0, Vertical Angle = 14.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (14.5) (Through Max. Cd.)