



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15273503-15273503.01.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 15273503.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 4/30/2024
[TEST DATE] 4/30/2024
[MANUFAC] H E WILLIAMS INC
[LUMCAT] MX4D-4'00-LXX/RGB835-F-DMX-UNV WHITE ONLY
[LUMINAIRE] White housing with frosted lens and external DMX controlle
[LAMP] 224 LEDs
[BALLAST] ERP VLM100-48
[OTHER] 25.2 C, 119.963 V, 0.358823 A, 42.4622 W, 0.986446 PF, 60.0072
[MORE] Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[OTHER] The reported results were measured in a facility that meets th
[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de
[MORE] tectable upright as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4304
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	43.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 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	11606	11242	11054
55	10677	10324	10194
65	9820	9427	9202
75	8151	8088	7907
85	6152	6295	6224

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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>
0.0	1680.587	1680.587	1680.587	1680.587	1680.587
0.5	1708.581	1681.553	1672.865	1676.726	1669.969
1.0	1707.616	1680.587	1672.865	1677.691	1669.969
1.5	1707.616	1680.587	1672.865	1677.691	1669.969
2.0	1706.650	1680.587	1671.900	1676.726	1669.004
2.5	1705.685	1678.657	1671.900	1676.726	1669.004
3.0	1704.720	1677.691	1669.969	1675.761	1668.038
3.5	1703.755	1676.726	1669.004	1674.796	1667.073
4.0	1701.824	1674.796	1668.038	1673.830	1667.073
4.5	1699.893	1673.830	1666.108	1671.900	1665.143
5.0	1698.928	1671.900	1665.143	1670.934	1662.247
5.5	1696.997	1669.969	1663.212	1669.004	1660.316
6.0	1695.067	1668.038	1661.281	1667.073	1658.385
6.5	1693.136	1666.108	1659.351	1664.177	1655.490
7.0	1691.206	1662.247	1656.455	1661.281	1653.559
7.5	1688.310	1660.316	1654.524	1658.385	1649.698
8.0	1685.414	1657.420	1650.663	1655.490	1647.767
8.5	1681.553	1654.524	1647.767	1651.628	1643.906
9.0	1678.657	1650.663	1644.871	1648.732	1641.975
9.5	1674.796	1647.767	1641.010	1644.871	1637.149
10.0	1671.900	1644.871	1637.149	1641.010	1633.288
10.5	1667.073	1641.010	1633.288	1637.149	1629.426
11.0	1663.212	1637.149	1629.426	1632.322	1625.565
11.5	1659.351	1632.322	1624.600	1629.426	1620.739
12.0	1655.490	1628.461	1619.773	1623.635	1615.912
12.5	1649.698	1623.635	1614.947	1618.808	1611.086
13.0	1645.837	1618.808	1610.120	1613.982	1605.294
13.5	1640.045	1613.982	1604.329	1608.190	1600.467
14.0	1635.218	1608.190	1599.502	1602.398	1594.676
14.5	1629.426	1602.398	1593.710	1596.606	1589.849
15.0	1623.635	1597.572	1587.919	1591.780	1584.057
15.5	1617.843	1591.780	1582.127	1585.988	1578.266
16.0	1611.086	1585.023	1576.335	1579.231	1571.508
16.5	1605.294	1579.231	1569.578	1572.474	1565.717
17.0	1597.572	1572.474	1562.821	1566.682	1558.960
17.5	1591.780	1566.682	1556.064	1558.960	1552.202
18.0	1585.023	1559.925	1549.307	1552.202	1544.480
18.5	1578.266	1553.168	1541.584	1544.480	1536.758
19.0	1571.508	1546.411	1534.827	1536.758	1529.035
19.5	1564.751	1539.654	1528.070	1529.035	1521.313
20.0	1557.029	1531.931	1520.348	1521.313	1512.625
20.5	1549.307	1525.174	1512.625	1512.625	1503.937
21.0	1541.584	1517.452	1505.868	1504.903	1495.250
21.5	1533.862	1509.729	1497.180	1495.250	1485.597
22.0	1526.139	1502.007	1489.458	1486.562	1476.909
22.5	1517.452	1493.319	1481.736	1476.909	1468.221
23.0	1509.729	1485.597	1473.048	1467.256	1459.534
23.5	1501.042	1476.909	1464.360	1458.568	1450.846
24.0	1492.354	1468.221	1455.672	1448.915	1441.193
24.5	1483.666	1458.568	1446.019	1439.262	1431.540
25.0	1474.013	1449.881	1437.332	1430.575	1420.922
25.5	1465.325	1441.193	1427.679	1420.922	1412.234
26.0	1454.707	1431.540	1418.026	1411.269	1401.616
26.5	1445.054	1421.887	1408.373	1401.616	1391.963

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CANDELA TABULATION - (Cont.)

27.0	1435.401	1412.234	1398.720	1392.928	1382.310
27.5	1424.783	1401.616	1388.101	1383.275	1372.657
28.0	1415.130	1390.997	1378.448	1373.622	1363.969
28.5	1403.546	1381.344	1368.795	1363.969	1353.351
29.0	1393.893	1370.726	1358.177	1354.316	1343.698
29.5	1383.275	1360.108	1347.559	1342.732	1333.079
30.0	1373.622	1349.489	1337.906	1333.079	1324.392
30.5	1362.038	1338.871	1327.288	1322.461	1312.808
31.0	1351.420	1328.253	1316.669	1311.843	1303.155
31.5	1340.802	1317.635	1306.051	1301.224	1292.537
32.0	1330.183	1306.051	1295.433	1289.641	1281.918
32.5	1318.600	1295.433	1283.849	1279.023	1270.335
33.0	1307.982	1284.814	1273.231	1268.404	1259.717
33.5	1297.363	1273.231	1261.647	1255.855	1248.133
34.0	1285.780	1262.612	1251.029	1244.272	1235.584
34.5	1274.196	1251.029	1239.445	1232.688	1224.000
35.0	1262.612	1240.411	1227.862	1221.105	1212.417
35.5	1251.029	1228.827	1217.243	1209.521	1200.833
36.0	1239.445	1218.209	1205.660	1197.937	1189.250
36.5	1227.862	1205.660	1194.076	1186.354	1176.701
37.0	1215.313	1194.076	1182.493	1174.770	1165.117
37.5	1203.729	1182.493	1169.944	1163.187	1153.534
38.0	1192.146	1169.944	1158.360	1150.638	1141.950
38.5	1179.597	1158.360	1145.811	1138.089	1129.401
39.0	1168.013	1145.811	1134.228	1126.505	1116.852
39.5	1155.464	1134.228	1121.679	1113.956	1105.269
40.0	1142.915	1121.679	1110.095	1102.373	1092.720
40.5	1130.366	1109.130	1097.546	1089.824	1080.171
41.0	1116.852	1096.581	1085.963	1077.275	1067.622
41.5	1105.269	1084.032	1073.414	1064.726	1055.073
42.0	1091.754	1071.483	1060.865	1052.177	1042.524
42.5	1079.205	1058.934	1048.316	1039.628	1029.975
43.0	1066.657	1045.420	1035.767	1027.079	1017.426
43.5	1054.108	1032.871	1022.253	1014.530	1004.877
44.0	1041.559	1020.322	1009.704	1001.016	992.328
44.5	1029.010	1007.773	997.155	988.467	979.780
45.0	1016.461	995.224	984.606	975.918	968.196
45.5	1003.912	981.710	971.092	962.694	955.454
46.0	990.398	969.161	958.929	950.338	942.905
46.5	977.849	956.226	946.187	937.789	930.260
47.0	965.010	943.677	933.252	925.144	917.518
47.5	952.365	931.032	920.800	912.595	905.258
48.0	938.947	918.097	908.251	899.949	892.903
48.5	926.302	905.355	895.702	887.497	880.257
49.0	913.270	892.613	882.767	874.755	867.998
49.5	900.239	879.968	870.508	862.592	855.352
50.0	887.111	867.322	857.862	850.140	842.610
50.5	874.369	854.194	845.024	837.784	830.158
51.0	861.530	841.645	832.571	825.525	817.802
51.5	848.692	828.903	819.926	813.072	805.350
52.0	836.239	816.161	807.087	800.716	792.801
52.5	823.497	803.612	794.538	788.167	780.542
53.0	810.466	790.967	781.700	775.715	767.896
53.5	797.627	778.128	769.055	763.166	755.540
54.0	784.499	765.676	756.313	750.714	742.702
54.5	771.564	753.127	743.667	738.358	733.435

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55.0	758.533	740.385	733.435	730.249	724.265
55.5	745.887	730.056	726.581	721.272	713.067
56.0	733.531	722.527	713.839	708.530	700.422
56.5	725.809	710.750	701.194	695.595	687.969
57.0	714.998	697.815	688.549	682.371	674.938
57.5	701.773	685.170	675.903	669.918	662.678
58.0	688.742	672.621	663.354	657.369	649.937
58.5	675.903	660.072	650.612	644.338	637.291
59.0	662.872	647.137	637.967	631.982	625.032
59.5	650.323	634.492	625.611	619.336	612.966
60.0	637.870	621.943	612.966	607.174	600.706
60.5	625.321	609.780	600.610	594.625	588.350
61.0	612.869	597.135	588.254	582.366	576.381
61.5	600.610	584.972	576.284	569.913	564.121
62.0	588.254	572.906	564.218	557.654	551.862
62.5	575.898	560.646	552.055	545.781	539.892
63.0	563.446	548.677	540.278	533.811	527.923
63.5	551.186	536.514	528.695	522.227	515.953
64.0	538.830	524.448	516.918	510.547	504.176
64.5	526.185	512.767	505.238	499.253	492.786
65.0	514.022	500.508	493.461	487.863	481.685
65.5	501.377	488.635	481.781	476.569	470.680
66.0	489.021	476.858	470.198	465.564	459.772
66.5	476.376	464.695	458.324	454.270	448.575
67.0	463.537	452.629	446.644	443.073	437.667
67.5	451.085	440.563	434.868	431.682	426.276
68.0	438.246	428.400	422.994	420.195	414.789
68.5	425.311	416.237	411.121	408.129	403.109
69.0	412.666	404.171	399.055	396.159	391.429
69.5	399.634	391.912	386.892	384.189	379.363
70.0	386.506	379.652	374.826	371.930	367.200
70.5	373.475	367.393	362.856	359.960	355.230
71.0	360.443	354.748	350.887	347.991	343.261
71.5	347.605	342.392	338.820	336.117	331.581
72.0	334.766	330.133	327.044	324.437	320.190
72.5	321.734	317.873	315.267	312.757	308.606
73.0	309.475	305.711	303.876	301.463	297.505
73.5	297.023	294.030	292.486	289.976	286.405
74.0	285.053	282.157	281.192	278.972	275.304
74.5	273.180	270.574	270.091	267.871	264.299
75.0	261.307	259.183	259.280	256.866	253.488
75.5	249.916	247.986	248.179	246.055	242.869
76.0	238.719	236.981	237.560	235.340	232.541
76.5	227.425	226.073	226.846	224.915	222.116
77.0	216.613	215.165	216.324	214.490	211.883
77.5	205.898	204.644	205.802	204.161	201.651
78.0	195.280	194.122	195.473	194.122	191.709
78.5	184.855	183.793	185.338	184.083	181.959
79.0	174.430	173.657	175.202	174.140	172.210
79.5	164.198	163.618	165.356	164.487	162.653
80.0	154.448	153.965	155.606	154.931	153.193
80.5	144.795	144.409	145.953	145.567	143.926
81.0	135.045	134.949	136.686	136.300	134.949
81.5	125.586	125.586	127.613	127.323	125.972
82.0	116.415	116.608	118.442	118.346	117.187
82.5	107.631	108.017	109.658	109.368	108.596

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CANDELA TABULATION - (Cont.)

83.0	98.847	99.426	100.970	100.681	100.102
83.5	90.256	91.028	92.572	92.186	91.800
84.0	82.051	82.919	84.174	83.788	83.498
84.5	74.135	74.907	75.969	75.486	75.390
85.0	66.413	67.281	67.957	67.474	67.185
85.5	58.883	59.656	60.235	59.462	58.980
86.0	51.547	52.223	52.512	51.450	51.354
86.5	44.597	45.080	45.080	43.825	43.632
87.0	37.743	38.129	37.550	36.199	36.199
87.5	31.179	31.179	30.310	28.766	28.573
88.0	24.615	24.519	23.071	21.526	21.140
88.5	18.244	17.955	16.121	14.480	14.286
89.0	11.777	11.391	9.653	8.302	8.205
89.5	5.792	5.502	4.537	3.572	3.572
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15273503-15273503.01.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 15273503-15273503.01.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	608.16	N.A.	14.10
0-30	1271.61	N.A.	29.50
0-40	2041.6	N.A.	47.40
0-60	3462.3	N.A.	80.50
0-80	4227.05	N.A.	98.20
0-90	4303.52	N.A.	100.00
10-90	4144.81	N.A.	96.30
20-40	1433.43	N.A.	33.30
20-50	2194.72	N.A.	51.00
40-70	1910.71	N.A.	44.40
60-80	764.75	N.A.	17.80
70-80	274.75	N.A.	6.40
80-90	76.47	N.A.	1.80
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	4303.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.71
10-20	449.45
20-30	663.44
30-40	769.99
40-50	761.29
50-60	659.41
60-70	490.01
70-80	274.75
80-90	76.47
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

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	115	115	115	115	112	112	112	112	107	107	107	103	103	103	99	99	99	97
1	105	101	97	93	103	99	95	92	94	91	89	91	88	86	87	85	83	81
2	96	88	82	76	93	86	80	75	83	78	74	80	76	72	77	73	70	68
3	88	78	70	64	85	76	69	63	73	67	62	71	65	61	68	64	60	58
4	80	69	61	54	78	68	60	54	65	59	53	63	57	52	61	56	52	50
5	74	62	53	47	72	61	53	47	59	52	46	57	51	46	55	50	45	43
6	68	56	47	41	67	55	47	41	53	46	41	52	45	40	50	44	40	38
7	64	51	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
8	59	46	38	33	58	46	38	33	44	37	32	43	37	32	42	36	32	30
9	55	43	35	29	54	42	35	29	41	34	29	40	34	29	39	33	29	27
10	52	39	32	27	51	39	32	27	38	31	27	37	31	27	36	30	26	25

IES INDOOR REPORT
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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

X=2H	Y=2H	20.3	21.9	20.7	22.3	22.6	20.1	21.7	20.5	22.1	22.4
	3H	22.1	23.6	22.5	23.9	24.2	21.9	23.3	22.3	23.7	24.0
	4H	22.7	24.1	23.1	24.4	24.8	22.5	23.9	22.9	24.2	24.6
	6H	23.2	24.4	23.6	24.8	25.2	23.0	24.2	23.4	24.6	25.0
	8H	23.3	24.5	23.7	24.9	25.3	23.1	24.3	23.5	24.7	25.1
	12H	23.4	24.6	23.8	24.9	25.4	23.2	24.4	23.7	24.8	25.2

UGR Viewed Endwise

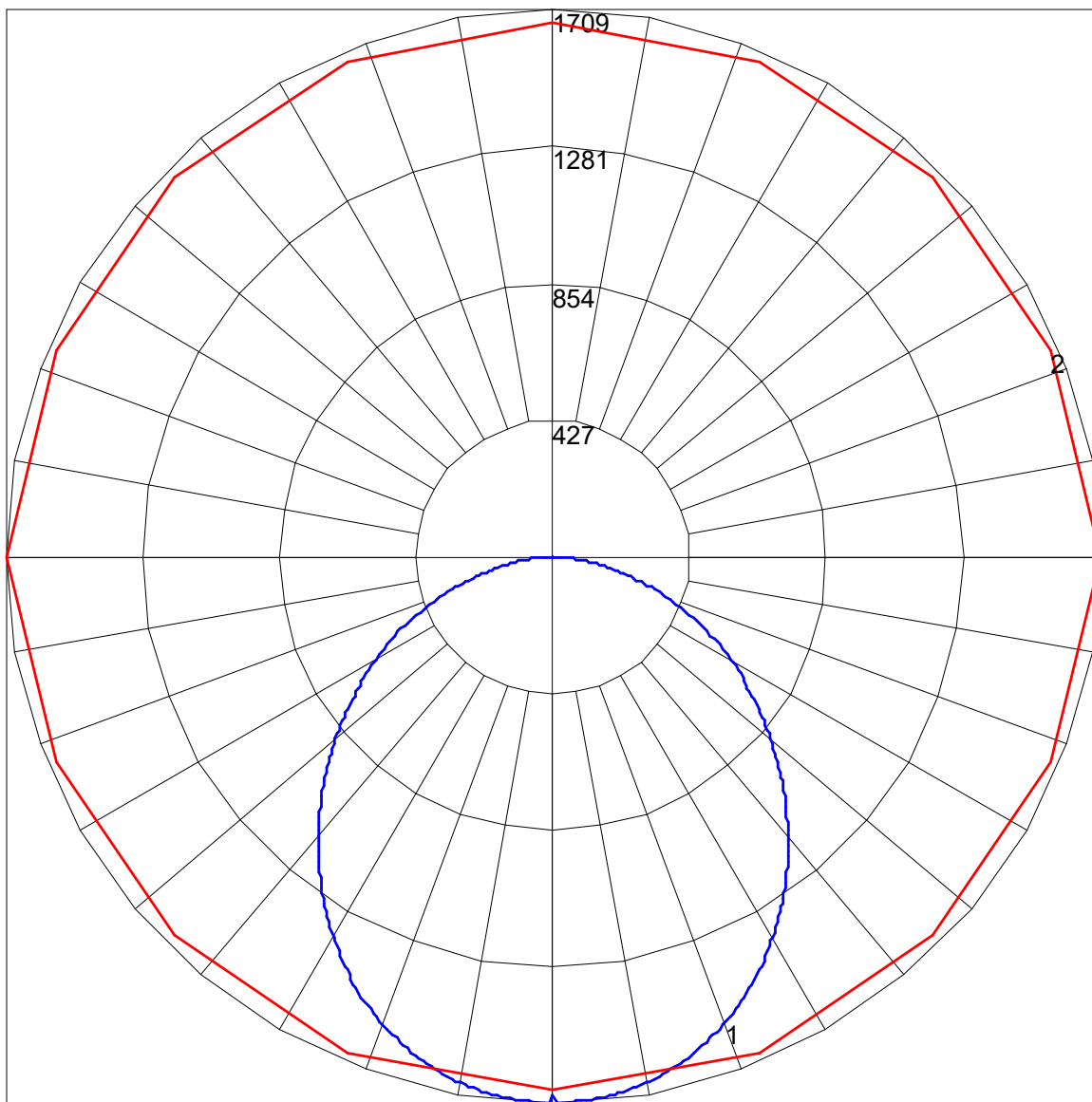
4H	2H	20.9	22.3	21.3	22.6	23.0	20.7	22.1	21.1	22.5	22.8
	3H	22.9	24.0	23.3	24.4	24.8	22.7	23.9	23.1	24.3	24.7
	4H	23.6	24.7	24.1	25.1	25.5	23.5	24.5	23.9	24.9	25.4
	6H	24.2	25.1	24.7	25.6	26.0	24.1	25.0	24.5	25.4	25.9
	8H	24.4	25.2	24.9	25.7	26.2	24.3	25.1	24.7	25.6	26.0
	12H	24.5	25.3	25.0	25.8	26.2	24.4	25.2	24.9	25.6	26.1

8H	4H	23.9	24.8	24.4	25.2	25.7	23.8	24.6	24.2	25.1	25.5
	6H	24.6	25.3	25.1	25.8	26.3	24.5	25.2	25.0	25.7	26.2
	8H	24.9	25.5	25.4	26.0	26.5	24.7	25.4	25.3	25.9	26.4
	12H	25.1	25.6	25.6	26.1	26.7	25.0	25.5	25.5	26.0	26.6

12H	4H	23.9	24.7	24.4	25.2	25.7	23.8	24.6	24.3	25.0	25.5
	6H	24.7	25.3	25.2	25.8	26.3	24.5	25.2	25.1	25.6	26.2
	8H	25.0	25.5	25.5	26.0	26.6	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1708.581 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)