



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 15184934.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2024-03-14  
[TEST DATE] 2/26/2024  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_  
[LUMINAIRE] Recessed 1 x 4 Lumen/Wattage selectable, CCT selectable,  
[MORE] LED Troffer w/center frosted acrylic lens.  
[LAMP] HLM 80 CRI 3500/5000K CCT LED  
[BALLAST] 0-10V DIMMING DRIVER

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	31.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4486	4791	5113
55	4188	4655	5083
65	3830	4524	4899
75	3273	4257	4131
85	2524	2825	1906

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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	1718.726	1718.726	1718.726	1718.726	1718.726	1718.726	1718.726	1718.726	1718.726
0.5	1710.673	1720.973	1717.040	1721.722	1724.718	1720.973	1715.542	1722.284	1706.179
1.0	1711.797	1720.224	1715.729	1719.100	1722.845	1722.471	1715.542	1723.220	1708.613
1.5	1709.924	1721.909	1716.291	1722.658	1720.785	1721.535	1717.040	1721.722	1710.860
2.0	1705.991	1722.284	1714.980	1722.658	1719.849	1721.535	1713.669	1719.475	1709.175
2.5	1706.553	1718.913	1712.171	1717.415	1717.976	1719.662	1712.920	1719.287	1705.055
3.0	1709.737	1719.287	1713.669	1718.351	1718.913	1716.853	1710.860	1720.598	1703.932
3.5	1709.550	1717.976	1713.108	1720.785	1719.475	1716.478	1713.482	1720.411	1706.366
4.0	1707.490	1717.602	1710.111	1718.726	1717.227	1716.291	1711.797	1718.913	1701.872
4.5	1705.991	1715.729	1710.860	1717.415	1713.482	1714.793	1706.366	1712.546	1702.246
5.0	1706.553	1712.920	1708.426	1713.857	1715.729	1712.920	1707.115	1711.048	1700.935
5.5	1699.437	1709.362	1703.932	1711.609	1715.729	1713.857	1706.928	1711.422	1695.505
6.0	1701.123	1708.613	1705.804	1712.733	1714.418	1711.422	1703.932	1708.613	1692.696
6.5	1702.246	1708.988	1704.868	1712.546	1714.418	1711.048	1703.744	1707.490	1691.759
7.0	1697.003	1708.800	1702.995	1708.239	1711.609	1708.426	1699.437	1708.051	1694.381
7.5	1694.006	1707.677	1697.190	1703.557	1707.677	1704.681	1697.377	1704.868	1693.445
8.0	1689.887	1703.182	1695.505	1702.246	1702.621	1700.748	1695.505	1705.430	1687.078
8.5	1690.823	1699.063	1691.947	1699.624	1702.059	1698.875	1691.759	1701.684	1679.587
9.0	1685.954	1694.568	1690.823	1699.250	1700.186	1698.126	1688.201	1696.066	1674.531
9.5	1681.834	1690.074	1690.261	1697.377	1700.748	1697.003	1686.516	1690.636	1672.471
10.0	1673.969	1687.265	1687.265	1697.003	1697.752	1694.006	1685.767	1685.767	1670.598
10.5	1674.344	1685.392	1685.767	1690.823	1693.445	1688.950	1687.827	1683.145	1667.976
11.0	1668.538	1676.778	1683.894	1688.388	1690.261	1685.954	1681.834	1677.714	1660.673
11.5	1665.542	1676.216	1676.778	1685.205	1688.576	1684.081	1677.340	1671.347	1657.677
12.0	1657.115	1670.411	1670.785	1684.269	1685.767	1681.272	1673.969	1667.602	1651.310
12.5	1653.932	1669.100	1666.666	1679.774	1682.770	1677.902	1669.100	1663.857	1644.943
13.0	1652.059	1664.231	1663.482	1673.220	1676.965	1673.782	1663.295	1659.924	1642.696
13.5	1645.130	1657.677	1661.422	1672.096	1675.093	1667.602	1656.179	1654.868	1638.576
14.0	1637.078	1651.872	1656.741	1668.726	1673.594	1664.606	1649.437	1649.063	1630.523
14.5	1634.456	1647.377	1651.497	1667.415	1668.351	1660.860	1646.066	1643.819	1626.965
15.0	1631.834	1643.445	1645.505	1664.231	1665.355	1657.490	1639.512	1636.141	1620.411
15.5	1627.340	1638.763	1640.074	1657.115	1657.864	1651.872	1633.707	1633.520	1616.666
16.0	1617.227	1631.272	1638.201	1654.119	1653.932	1645.505	1631.834	1626.965	1609.924
16.5	1616.478	1626.591	1632.396	1648.501	1649.812	1642.883	1627.340	1621.160	1603.183
17.0	1606.366	1619.100	1625.467	1644.194	1647.752	1636.329	1621.722	1614.793	1599.437
17.5	1601.310	1617.415	1620.224	1643.445	1641.759	1635.018	1613.669	1610.860	1592.134
18.0	1594.007	1611.235	1614.980	1638.201	1634.269	1628.651	1608.239	1601.684	1587.452
18.5	1589.887	1600.561	1608.801	1629.962	1628.276	1623.220	1601.497	1596.441	1583.520
19.0	1582.396	1593.445	1602.995	1622.658	1623.782	1618.913	1596.066	1591.385	1573.969
19.5	1574.531	1588.576	1597.752	1617.415	1617.977	1614.606	1589.138	1586.703	1566.104
20.0	1567.415	1583.707	1590.074	1614.231	1611.235	1609.550	1583.332	1581.834	1556.741
20.5	1558.426	1577.153	1582.583	1607.490	1606.741	1602.808	1578.838	1573.033	1551.310
21.0	1556.366	1568.726	1574.531	1599.250	1603.557	1596.441	1572.658	1564.606	1538.763
21.5	1543.632	1560.111	1570.411	1590.074	1596.254	1589.699	1564.044	1554.868	1531.460
22.0	1536.141	1551.684	1562.171	1583.145	1590.636	1580.711	1555.617	1545.505	1522.284
22.5	1532.771	1544.194	1555.992	1578.463	1584.830	1575.467	1549.063	1539.699	1516.478
23.0	1523.782	1535.954	1551.123	1572.096	1578.276	1569.287	1544.381	1533.145	1508.051
23.5	1517.228	1529.025	1544.568	1566.104	1573.407	1564.044	1538.763	1522.096	1501.497
24.0	1508.613	1522.658	1536.516	1559.362	1569.100	1557.490	1529.774	1514.793	1494.568
24.5	1497.939	1512.920	1526.965	1552.059	1562.733	1548.501	1521.909	1507.115	1480.336
25.0	1490.449	1503.932	1519.849	1546.254	1555.242	1541.010	1515.729	1499.999	1476.591
25.5	1482.771	1493.445	1513.295	1539.699	1547.377	1534.081	1510.673	1491.759	1467.040
26.0	1474.156	1485.580	1503.183	1530.898	1539.512	1530.149	1506.366	1480.149	1455.430
26.5	1462.920	1479.587	1497.190	1524.344	1533.520	1521.160	1497.190	1472.284	1449.625

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**CANDELA TABULATION - (Cont.)**

27.0	1457.490	1471.535	1490.823	1519.475	1526.029	1512.546	1485.392	1464.419	1442.696
27.5	1443.070	1459.924	1482.583	1512.733	1520.973	1506.179	1475.655	1454.493	1432.771
28.0	1435.018	1454.119	1473.220	1501.872	1516.104	1500.935	1468.351	1446.254	1419.849
28.5	1429.213	1440.636	1462.920	1496.441	1507.115	1493.258	1461.422	1436.516	1410.861
29.0	1415.168	1432.958	1454.119	1487.452	1496.816	1482.022	1453.183	1427.714	1399.812
29.5	1405.992	1422.658	1447.190	1480.523	1488.201	1475.842	1441.947	1418.913	1391.385
30.0	1400.748	1411.235	1437.827	1473.033	1481.460	1469.100	1434.456	1411.048	1381.085
30.5	1390.823	1402.995	1430.711	1463.482	1473.782	1459.362	1425.093	1401.872	1367.977
31.0	1376.404	1394.568	1420.973	1451.872	1465.168	1452.808	1414.980	1389.325	1356.928
31.5	1367.415	1384.643	1410.861	1444.568	1458.239	1440.261	1406.741	1378.464	1347.565
32.0	1359.175	1375.280	1398.876	1436.329	1447.752	1431.834	1398.126	1369.288	1337.640
32.5	1350.374	1365.355	1391.198	1428.838	1439.699	1423.969	1387.078	1359.362	1329.587
33.0	1336.141	1353.557	1381.834	1421.722	1432.958	1416.479	1379.400	1347.565	1318.726
33.5	1329.025	1343.258	1372.471	1411.235	1424.905	1407.864	1368.351	1335.018	1304.681
34.0	1313.857	1333.707	1362.921	1402.808	1417.789	1398.688	1356.741	1323.782	1293.632
34.5	1305.804	1319.100	1353.557	1392.134	1408.239	1387.078	1348.876	1314.606	1283.707
35.0	1295.130	1311.235	1344.194	1384.456	1397.752	1378.838	1338.389	1303.745	1275.093
35.5	1283.707	1299.437	1334.456	1377.715	1388.389	1369.100	1327.715	1294.194	1263.857
36.0	1270.598	1290.261	1323.220	1368.164	1379.587	1360.112	1319.288	1280.149	1252.059
36.5	1259.175	1276.404	1312.733	1358.426	1370.598	1352.059	1307.677	1269.100	1243.632
37.0	1256.366	1266.104	1302.059	1349.063	1363.295	1344.007	1299.063	1260.299	1234.269
37.5	1241.010	1256.554	1292.509	1338.201	1352.434	1332.022	1285.954	1249.437	1222.284
38.0	1232.209	1246.254	1282.771	1327.153	1342.509	1323.407	1276.591	1240.823	1210.112
38.5	1220.037	1237.452	1272.846	1317.228	1333.333	1312.733	1266.479	1229.025	1200.187
39.0	1209.175	1225.842	1261.797	1308.426	1325.467	1302.059	1256.741	1219.100	1190.449
39.5	1194.381	1215.730	1250.748	1298.127	1314.606	1292.321	1248.314	1209.363	1178.464
40.0	1185.205	1205.617	1243.632	1288.763	1304.868	1283.707	1241.947	1198.688	1167.228
40.5	1171.348	1194.007	1235.580	1277.340	1295.130	1272.471	1231.460	1186.516	1153.370
41.0	1162.733	1182.022	1223.969	1267.040	1284.082	1261.984	1219.100	1172.097	1140.823
41.5	1149.063	1169.849	1214.044	1257.490	1273.595	1250.561	1205.804	1159.737	1128.089
42.0	1136.703	1156.741	1202.246	1248.127	1264.419	1246.441	1194.194	1147.752	1117.228
42.5	1124.718	1144.569	1189.887	1241.385	1256.179	1238.576	1184.082	1136.329	1104.306
43.0	1111.797	1132.958	1179.775	1231.085	1249.625	1227.527	1173.408	1125.093	1094.381
43.5	1097.003	1121.160	1169.100	1220.598	1235.954	1216.853	1160.299	1112.733	1079.400
44.0	1084.082	1108.052	1157.115	1211.235	1227.902	1202.434	1148.688	1097.565	1065.917
44.5	1073.220	1095.505	1144.943	1200.748	1218.539	1192.134	1137.452	1085.580	1054.681
45.0	1059.550	1085.018	1131.460	1188.389	1207.490	1183.894	1127.153	1073.969	1043.632
45.5	1045.880	1072.846	1120.037	1177.153	1194.381	1174.718	1115.917	1060.673	1031.647
46.0	1036.142	1059.550	1109.924	1166.291	1182.209	1161.984	1102.059	1049.250	1017.602
46.5	1023.969	1046.629	1098.688	1155.055	1172.284	1150.748	1088.763	1037.078	1003.183
47.0	1008.988	1034.269	1086.329	1144.756	1162.733	1139.700	1078.464	1023.969	991.011
47.5	995.318	1021.722	1074.157	1131.835	1150.561	1129.026	1067.415	1011.048	976.966
48.0	983.707	1008.988	1062.546	1120.786	1141.385	1117.415	1055.992	998.876	964.793
48.5	973.408	997.565	1050.748	1108.426	1128.651	1103.745	1042.321	985.393	953.557
49.0	958.988	983.520	1039.325	1096.629	1115.730	1092.883	1031.835	972.846	941.198
49.5	946.254	970.786	1026.591	1085.205	1104.868	1082.958	1017.790	960.486	927.715
50.0	933.520	956.554	1014.793	1076.029	1094.756	1072.284	1006.928	948.127	916.853
50.5	922.659	946.441	1002.996	1064.232	1084.644	1058.801	996.629	934.644	903.370
51.0	909.737	932.584	990.449	1050.748	1071.535	1045.318	985.018	920.973	888.763
51.5	895.131	918.351	978.651	1038.014	1059.175	1033.707	972.471	906.928	875.280
52.0	882.584	904.868	967.415	1027.715	1047.378	1023.782	957.490	894.381	863.483
52.5	867.977	893.258	953.932	1017.228	1035.767	1013.295	945.318	882.022	851.872
53.0	856.741	880.711	943.258	1005.992	1024.906	1000.936	934.269	870.973	839.513
53.5	842.696	867.415	929.775	993.258	1011.423	987.078	921.722	857.490	825.655
54.0	831.647	854.119	915.917	980.149	998.689	973.969	909.925	843.445	813.483
54.5	817.790	841.573	903.557	967.228	987.453	962.546	896.254	829.400	800.000

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

## CANDELA TABULATION - (Cont.)

55.0	802.434	827.715	891.760	955.243	973.782	951.685	884.082	817.790	784.456
55.5	791.011	814.981	880.149	943.820	961.610	939.513	870.786	804.868	772.097
56.0	778.277	803.183	867.977	930.711	948.689	926.591	858.614	791.011	759.363
56.5	764.794	790.262	855.243	916.666	936.142	912.359	847.190	777.528	744.756
57.0	749.625	776.966	841.385	902.808	922.659	898.689	834.456	765.168	732.022
57.5	735.393	762.359	829.213	890.074	908.988	886.329	822.284	752.809	717.977
58.0	723.970	749.625	817.790	877.340	895.692	874.906	808.426	738.015	705.430
58.5	711.423	736.704	805.805	866.104	882.022	859.363	794.756	725.842	692.509
59.0	698.127	724.719	794.382	852.059	867.790	847.003	783.333	711.610	678.089
59.5	682.771	711.048	780.524	839.700	854.119	833.146	771.161	698.876	665.917
60.0	669.850	698.314	768.164	824.719	840.449	820.224	758.426	686.142	653.558
60.5	657.865	684.269	756.554	811.610	827.153	807.677	746.067	673.595	640.262
61.0	645.505	672.659	743.071	797.940	811.423	794.943	733.707	660.299	625.468
61.5	631.835	658.614	729.400	784.269	796.441	781.086	719.288	647.191	612.359
62.0	617.603	646.067	717.415	770.973	783.333	765.730	706.741	633.895	600.374
62.5	604.119	632.958	704.494	756.928	768.913	752.059	694.007	620.224	586.704
63.0	591.011	619.663	691.198	743.258	754.119	738.764	681.460	608.052	572.284
63.5	578.839	608.052	678.464	729.213	737.827	724.344	667.228	595.880	560.861
64.0	566.854	594.382	665.168	714.045	723.221	709.737	654.307	582.958	548.127
64.5	553.558	582.397	651.685	699.625	707.865	695.880	641.011	568.914	534.457
65.0	540.636	568.352	638.576	685.767	691.573	679.400	628.277	556.741	522.097
65.5	526.966	555.805	626.966	671.348	676.030	664.981	615.543	543.820	509.738
66.0	512.546	543.820	614.232	655.618	660.486	651.310	601.498	531.648	496.442
66.5	500.936	530.711	600.374	640.824	643.258	635.955	589.325	519.101	482.771
67.0	486.891	517.790	587.266	625.093	626.404	619.663	575.842	507.303	470.037
67.5	475.093	505.056	573.782	609.363	609.925	604.681	562.546	494.007	457.865
68.0	460.674	492.884	560.112	593.445	594.194	588.576	548.689	482.022	444.007
68.5	448.127	479.962	546.816	578.464	577.340	573.970	535.767	468.726	431.460
69.0	436.142	467.603	533.333	563.670	559.925	558.052	522.284	456.367	419.663
69.5	423.033	454.869	520.599	547.378	543.071	541.385	509.550	443.820	405.992
70.0	409.363	443.071	506.367	530.899	526.217	525.468	495.880	431.460	392.135
70.5	395.131	429.962	493.258	514.606	508.988	509.176	482.397	419.101	380.337
71.0	382.022	417.603	479.213	498.502	491.760	492.696	469.475	407.678	368.726
71.5	369.663	405.430	465.543	482.022	475.468	477.341	454.869	395.505	355.805
72.0	357.116	393.071	452.247	465.168	458.239	461.236	440.824	382.210	343.445
72.5	344.756	381.460	438.764	448.689	440.262	444.569	427.528	370.037	329.962
73.0	331.648	369.475	424.344	432.209	424.344	428.090	413.670	357.490	317.790
73.5	318.914	356.367	409.925	416.666	407.116	411.797	399.625	346.254	305.992
74.0	306.367	344.007	395.318	400.374	389.700	395.880	385.393	334.457	293.071
74.5	294.569	332.210	381.460	383.520	372.659	380.337	371.910	322.097	281.086
75.0	282.959	320.412	367.977	366.854	357.116	363.296	357.116	309.363	269.288
75.5	271.161	308.614	354.120	350.936	339.887	347.191	343.445	297.753	256.929
76.0	259.550	296.629	339.513	334.457	323.034	330.711	329.401	286.142	245.505
76.5	248.314	284.831	325.093	318.726	306.367	315.356	315.356	274.719	234.270
77.0	236.704	273.034	310.487	302.622	290.637	299.625	300.000	262.921	223.221
77.5	224.719	261.423	296.067	287.266	274.906	283.333	286.329	250.936	212.921
78.0	213.670	250.000	282.022	271.910	259.363	267.790	272.284	239.326	200.749
78.5	202.996	238.389	268.165	256.367	243.820	251.873	258.427	227.902	189.888
79.0	192.135	226.592	253.932	240.637	228.090	236.142	244.382	216.292	179.457
79.5	180.824	214.981	238.951	225.281	212.172	220.412	230.337	204.869	169.401
80.0	170.393	203.183	225.281	208.989	196.629	205.431	215.917	193.071	159.756
80.5	160.281	192.322	210.674	193.633	181.760	190.075	201.685	182.322	149.476
81.0	149.813	181.011	196.442	178.427	166.910	175.393	187.453	171.292	139.157
81.5	139.607	169.831	182.097	163.221	152.172	160.262	173.558	160.000	129.382
82.0	129.457	158.221	167.584	148.464	137.285	145.168	159.138	148.876	119.738
82.5	119.756	146.779	153.352	133.801	122.640	130.206	145.131	137.584	110.880

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

## CANDELA TABULATION - (Cont.)

83.0	110.075	135.599	138.689	118.951	108.577	115.936	130.880	126.404	101.723
83.5	100.693	124.326	124.344	104.813	94.663	101.610	116.498	115.150	92.622
84.0	91.311	113.183	110.150	90.618	81.348	87.472	102.509	103.933	83.783
84.5	82.172	102.041	96.161	76.760	68.052	73.895	89.007	93.333	75.187
85.0	73.464	91.011	82.247	63.427	55.487	60.786	75.506	82.322	67.172
85.5	65.262	79.738	68.539	50.786	43.427	48.127	62.341	71.386	59.007
86.0	56.798	68.801	55.468	38.801	32.322	35.992	49.176	60.262	50.712
86.5	48.595	57.566	42.884	27.416	21.742	25.206	36.704	49.213	42.809
87.0	40.487	46.217	31.217	17.341	13.277	15.637	25.318	38.464	34.906
87.5	33.240	35.112	20.281	10.936	9.719	10.131	15.318	27.846	27.210
88.0	25.693	24.457	11.367	8.146	7.491	7.715	8.783	17.865	19.738
88.5	18.427	14.438	7.004	5.899	5.393	5.543	5.599	8.895	12.865
89.0	11.648	6.498	4.532	3.783	3.390	3.333	3.408	3.577	6.592
89.5	5.730	2.753	2.434	1.835	1.610	1.517	1.592	1.517	2.154
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	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
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	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
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	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
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	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
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	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
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	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
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	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
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	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
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

CANDELA TABULATION - (Cont.)

167.0	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
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	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
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	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
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	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
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	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
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	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



**IES INDOOR REPORT****PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	627.38	N.A.	12.80
0-30	1328.15	N.A.	27.10
0-40	2168.6	N.A.	44.30
0-60	3833.41	N.A.	78.30
0-80	4808.05	N.A.	98.20
0-90	4896.28	N.A.	100.00
10-90	4733.66	N.A.	96.70
20-40	1541.21	N.A.	31.50
20-50	2413.29	N.A.	49.30
40-70	2280.2	N.A.	46.60
60-80	974.63	N.A.	19.90
70-80	359.25	N.A.	7.30
80-90	88.23	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	4896.28	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.62
10-20	464.76
20-30	700.76
30-40	840.45
40-50	872.08
50-60	792.74
60-70	615.38
70-80	359.25
80-90	88.23
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV\_31W\_5000K\_.IES

## UGR TABLE - CORRECTED

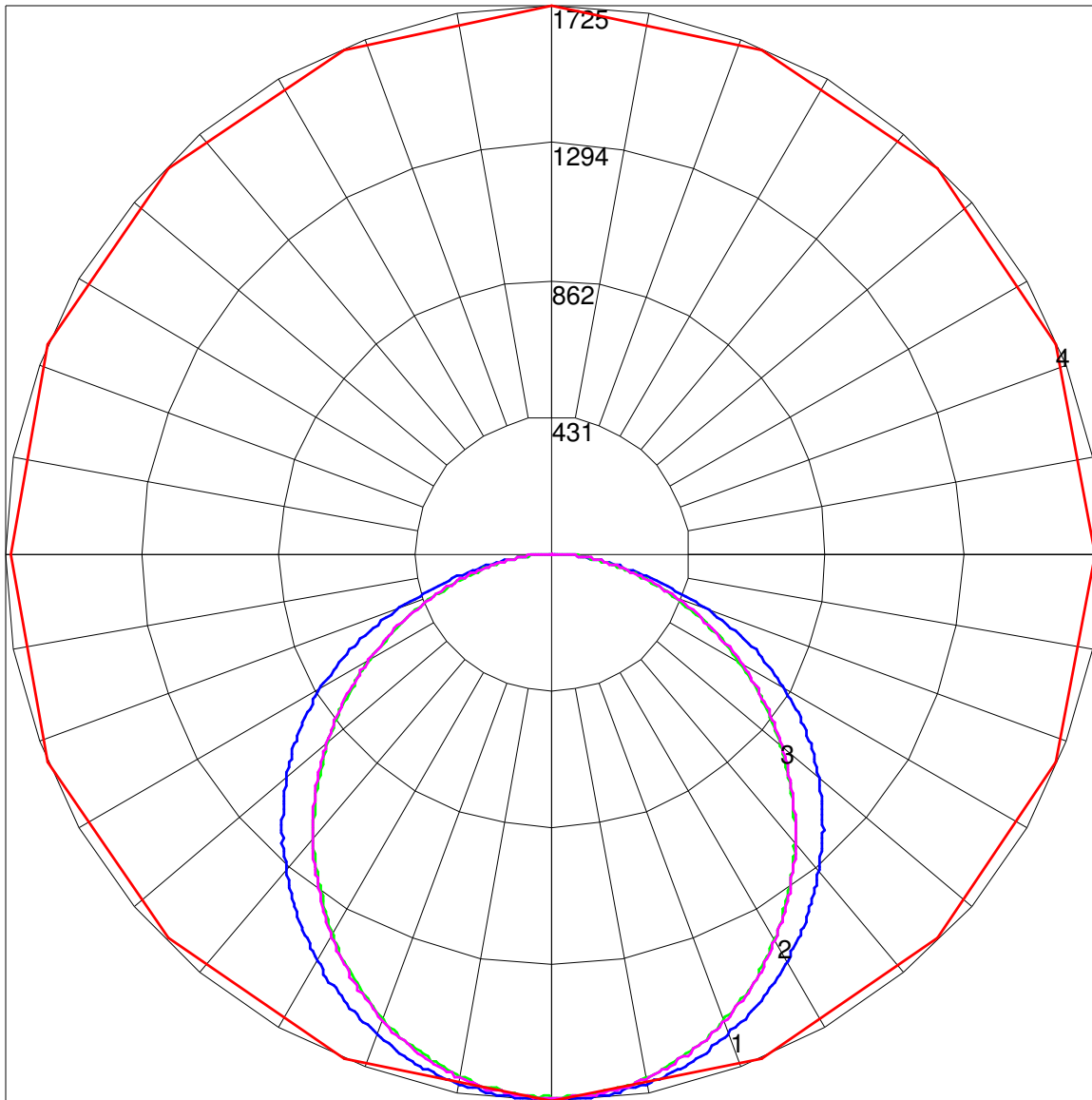
### Reflectances

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	16.9	18.6	17.3	18.9	19.2	18.0	19.7	18.4	20.0	20.3
	3H	18.7	20.2	19.1	20.5	20.9	20.0	21.5	20.4	21.8	22.2
	4H	19.3	20.7	19.7	21.1	21.5	20.7	22.1	21.1	22.4	22.8
	6H	19.8	21.1	20.2	21.5	21.9	21.1	22.4	21.5	22.8	23.2
	8H	20.0	21.2	20.4	21.6	22.0	21.2	22.5	21.6	22.8	23.2
	12H	20.1	21.3	20.5	21.6	22.1	21.3	22.4	21.7	22.8	23.3
4H	2H	17.7	19.2	18.1	19.5	19.9	18.6	20.0	19.0	20.4	20.7
	3H	19.7	20.9	20.2	21.3	21.7	20.8	22.0	21.2	22.4	22.8
	4H	20.5	21.6	21.0	22.0	22.5	21.6	22.7	22.0	23.1	23.5
	6H	21.2	22.1	21.6	22.5	23.0	22.2	23.1	22.6	23.6	24.0
	8H	21.4	22.2	21.8	22.7	23.1	22.3	23.2	22.8	23.7	24.1
	12H	21.5	22.3	22.0	22.8	23.2	22.4	23.2	22.9	23.7	24.1
8H	4H	21.0	21.9	21.5	22.3	22.8	21.9	22.8	22.4	23.2	23.7
	6H	21.8	22.5	22.3	23.0	23.5	22.6	23.3	23.1	23.8	24.3
	8H	22.0	22.7	22.5	23.2	23.7	22.8	23.5	23.3	24.0	24.5
	12H	22.3	22.9	22.8	23.3	23.9	22.9	23.5	23.4	24.0	24.6
12H	4H	21.0	21.8	21.5	22.3	22.8	21.9	22.7	22.4	23.2	23.7
	6H	21.9	22.5	22.4	23.0	23.5	22.7	23.3	23.2	23.8	24.3
	8H	22.2	22.8	22.7	23.3	23.8	22.9	23.5	23.4	24.0	24.5

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 1724.718 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)