



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FT-14-LS-8CS-AF-DIM-UNV_31W_4000K_.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_4000K_
[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	5072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
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	4647	4963	5296
55	4339	4822	5266
65	3968	4686	5075
75	3391	4410	4279
85	2614	2927	1975

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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	1780.497	1780.497	1780.497	1780.497	1780.497	1780.497	1780.497	1780.497	1780.497
0.5	1772.155	1782.825	1778.751	1783.601	1786.705	1782.825	1777.199	1784.183	1767.499
1.0	1773.319	1782.049	1777.393	1780.885	1784.765	1784.377	1777.199	1785.153	1770.021
1.5	1771.379	1783.795	1777.975	1784.571	1782.631	1783.407	1778.751	1783.601	1772.349
2.0	1767.305	1784.183	1776.617	1784.571	1781.661	1783.407	1775.259	1781.273	1770.603
2.5	1767.887	1780.691	1773.707	1779.139	1779.721	1781.467	1774.483	1781.079	1766.335
3.0	1771.185	1781.079	1775.259	1780.109	1780.691	1778.557	1772.349	1782.437	1765.171
3.5	1770.991	1779.721	1774.677	1782.631	1781.273	1778.169	1775.065	1782.243	1767.693
4.0	1768.857	1779.333	1771.573	1780.497	1778.945	1777.975	1773.319	1780.691	1763.037
4.5	1767.305	1777.393	1772.349	1779.139	1775.065	1776.423	1767.693	1774.095	1763.425
5.0	1767.887	1774.483	1769.827	1775.453	1777.393	1774.483	1768.469	1772.543	1762.068
5.5	1760.516	1770.797	1765.171	1773.125	1777.393	1775.453	1768.275	1772.931	1756.442
6.0	1762.262	1770.021	1767.111	1774.289	1776.035	1772.931	1765.171	1770.021	1753.532
6.5	1763.425	1770.409	1766.141	1774.095	1776.035	1772.543	1764.977	1768.857	1752.562
7.0	1757.994	1770.215	1764.201	1769.633	1773.125	1769.827	1760.516	1769.439	1755.278
7.5	1754.890	1769.051	1758.188	1764.783	1769.051	1765.947	1758.382	1766.141	1754.308
8.0	1750.622	1764.395	1756.442	1763.425	1763.813	1761.874	1756.442	1766.723	1747.712
8.5	1751.592	1760.128	1752.756	1760.710	1763.231	1759.934	1752.562	1762.843	1739.952
9.0	1746.548	1755.472	1751.592	1760.322	1761.292	1759.158	1748.876	1757.024	1734.714
9.5	1742.280	1750.816	1751.010	1758.382	1761.874	1757.994	1747.130	1751.398	1732.580
10.0	1734.132	1747.906	1747.906	1757.994	1758.770	1754.890	1746.354	1746.354	1730.640
10.5	1734.520	1745.966	1746.354	1751.592	1754.308	1749.652	1748.488	1743.638	1727.924
11.0	1728.506	1737.042	1744.414	1749.070	1751.010	1746.548	1742.280	1738.012	1720.358
11.5	1725.402	1736.460	1737.042	1745.772	1749.264	1744.608	1737.624	1731.416	1717.254
12.0	1716.672	1730.446	1730.834	1744.802	1746.354	1741.698	1734.132	1727.536	1710.659
12.5	1713.374	1729.088	1726.566	1740.146	1743.250	1738.206	1729.088	1723.656	1704.063
13.0	1711.435	1724.044	1723.268	1733.356	1737.236	1733.938	1723.074	1719.582	1701.735
13.5	1704.257	1717.254	1721.134	1732.192	1735.296	1727.536	1715.702	1714.344	1697.467
14.0	1695.915	1711.241	1716.284	1728.700	1733.744	1724.432	1708.719	1708.331	1689.125
14.5	1693.199	1706.585	1710.853	1727.342	1728.312	1720.552	1705.227	1702.899	1685.439
15.0	1690.483	1702.511	1704.645	1724.044	1725.208	1717.060	1698.437	1694.945	1678.649
15.5	1685.827	1697.661	1699.019	1716.672	1717.448	1711.241	1692.423	1692.229	1674.769
16.0	1675.351	1689.901	1697.079	1713.568	1713.374	1704.645	1690.483	1685.439	1667.785
16.5	1674.575	1685.051	1691.065	1707.749	1709.107	1701.929	1685.827	1679.425	1660.801
17.0	1664.099	1677.291	1683.887	1703.287	1706.973	1695.139	1680.007	1672.829	1656.922
17.5	1658.862	1675.545	1678.455	1702.511	1700.765	1693.781	1671.665	1668.755	1649.356
18.0	1651.296	1669.143	1673.023	1697.079	1693.005	1687.185	1666.039	1659.250	1644.506
18.5	1647.028	1658.086	1666.621	1688.543	1686.797	1681.559	1659.056	1653.818	1640.432
19.0	1639.268	1650.714	1660.607	1680.977	1682.141	1677.097	1653.430	1648.580	1630.538
19.5	1631.120	1645.670	1655.176	1675.545	1676.127	1672.635	1646.252	1643.730	1622.390
20.0	1623.748	1640.626	1647.222	1672.247	1669.143	1667.397	1640.238	1638.686	1612.690
20.5	1614.436	1633.836	1639.462	1665.263	1664.487	1660.414	1635.582	1629.568	1607.065
21.0	1612.302	1625.106	1631.120	1656.728	1661.189	1653.818	1629.180	1620.838	1594.067
21.5	1599.111	1616.182	1626.852	1647.222	1653.624	1646.834	1620.256	1610.750	1586.501
22.0	1591.351	1607.453	1618.316	1640.044	1647.804	1637.522	1611.526	1601.051	1576.995
22.5	1587.859	1599.693	1611.914	1635.194	1641.790	1632.090	1604.737	1595.037	1570.981
23.0	1578.547	1591.157	1606.871	1628.598	1635.000	1625.688	1599.887	1588.247	1562.251
23.5	1571.757	1583.979	1600.081	1622.390	1629.956	1620.256	1594.067	1576.801	1555.462
24.0	1562.833	1577.383	1591.739	1615.406	1625.494	1613.466	1584.755	1569.235	1548.284
24.5	1551.776	1567.295	1581.845	1607.841	1618.898	1604.155	1576.607	1561.281	1533.540
25.0	1544.016	1557.984	1574.473	1601.827	1611.138	1596.395	1570.205	1553.910	1529.660
25.5	1536.062	1547.120	1567.683	1595.037	1602.991	1589.217	1564.967	1545.374	1519.766
26.0	1527.138	1538.972	1557.208	1585.919	1594.843	1585.143	1560.505	1533.346	1507.738
26.5	1515.498	1532.764	1551.000	1579.129	1588.635	1575.831	1551.000	1525.198	1501.725

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CANDELA TABULATION - (Cont.)

27.0	1509.872	1524.422	1544.404	1574.085	1580.875	1566.907	1538.778	1517.050	1494.547
27.5	1494.935	1512.394	1535.868	1567.101	1575.637	1560.311	1528.690	1506.769	1484.265
28.0	1486.593	1506.381	1526.168	1555.850	1570.593	1554.880	1521.124	1498.233	1470.879
28.5	1480.579	1492.413	1515.498	1550.224	1561.281	1546.926	1513.946	1488.145	1461.567
29.0	1466.029	1484.459	1506.381	1540.912	1550.612	1535.286	1505.411	1479.027	1450.122
29.5	1456.523	1473.789	1499.203	1533.734	1541.688	1528.884	1493.771	1469.909	1441.392
30.0	1451.092	1461.955	1489.503	1525.974	1534.704	1521.900	1486.011	1461.761	1430.722
30.5	1440.810	1453.420	1482.131	1516.080	1526.750	1511.812	1476.311	1452.256	1417.142
31.0	1425.872	1444.690	1472.043	1504.053	1517.826	1505.023	1465.835	1439.258	1405.696
31.5	1416.560	1434.408	1461.567	1496.487	1510.648	1492.025	1457.299	1428.006	1395.997
32.0	1408.024	1424.708	1449.152	1487.951	1499.785	1483.295	1448.376	1418.500	1385.715
32.5	1398.907	1414.426	1441.198	1480.191	1491.443	1475.147	1436.930	1408.218	1377.373
33.0	1384.163	1402.205	1431.498	1472.819	1484.459	1467.387	1428.976	1395.997	1366.121
33.5	1376.791	1391.535	1421.798	1461.955	1476.117	1458.463	1417.530	1382.999	1351.572
34.0	1361.077	1381.641	1411.904	1453.226	1468.745	1448.958	1405.502	1371.359	1340.126
34.5	1352.736	1366.509	1402.205	1442.168	1458.851	1436.930	1397.355	1361.853	1329.844
35.0	1341.678	1358.361	1392.505	1434.214	1447.988	1428.394	1386.491	1350.602	1320.920
35.5	1329.844	1346.140	1382.417	1427.230	1438.288	1418.306	1375.433	1340.708	1309.280
36.0	1316.264	1336.634	1370.777	1417.336	1429.170	1408.994	1366.703	1326.158	1297.059
36.5	1304.430	1322.278	1359.913	1407.248	1419.858	1400.653	1354.675	1314.712	1288.329
37.0	1301.521	1311.608	1348.856	1397.549	1412.292	1392.311	1345.752	1305.594	1278.629
37.5	1285.613	1301.715	1338.962	1386.297	1401.041	1379.895	1332.172	1294.343	1266.213
38.0	1276.495	1291.045	1328.874	1374.851	1390.759	1370.971	1322.472	1285.419	1253.603
38.5	1263.885	1281.927	1318.592	1364.569	1381.253	1359.913	1311.996	1273.197	1243.322
39.0	1252.633	1269.899	1307.146	1355.451	1373.105	1348.856	1301.909	1262.915	1233.234
39.5	1237.308	1259.423	1295.701	1344.782	1361.853	1338.768	1293.179	1252.827	1220.818
40.0	1227.802	1248.948	1288.329	1335.082	1351.766	1329.844	1286.583	1241.770	1209.178
40.5	1213.446	1236.920	1279.987	1323.248	1341.678	1318.204	1275.719	1229.160	1194.823
41.0	1204.522	1224.504	1267.959	1312.578	1330.232	1307.340	1262.915	1214.222	1181.825
41.5	1190.361	1211.894	1257.677	1302.685	1319.368	1295.507	1249.142	1201.418	1168.633
42.0	1177.557	1198.315	1245.456	1292.985	1309.862	1291.239	1237.114	1189.003	1157.381
42.5	1165.141	1185.705	1232.652	1286.001	1301.327	1283.091	1226.638	1177.169	1143.996
43.0	1151.755	1173.677	1222.176	1275.331	1294.537	1271.645	1215.580	1165.529	1133.714
43.5	1136.430	1161.455	1211.118	1264.467	1280.375	1260.587	1202.000	1152.725	1118.194
44.0	1123.044	1147.876	1198.703	1254.767	1272.033	1245.650	1189.973	1137.012	1104.226
44.5	1111.792	1134.878	1186.093	1243.904	1262.333	1234.980	1178.333	1124.596	1092.587
45.0	1097.631	1124.014	1172.125	1231.100	1250.888	1226.444	1167.663	1112.568	1081.141
45.5	1083.469	1111.404	1160.291	1219.460	1237.308	1216.938	1156.023	1098.794	1068.725
46.0	1073.381	1097.631	1149.815	1208.208	1224.698	1203.746	1141.668	1086.961	1054.175
46.5	1060.771	1084.245	1138.176	1196.569	1214.416	1192.107	1127.894	1074.351	1039.238
47.0	1045.252	1071.441	1125.372	1185.899	1204.522	1180.661	1117.224	1060.771	1026.628
47.5	1031.090	1058.443	1112.762	1172.513	1191.913	1169.603	1105.778	1047.385	1012.078
48.0	1019.062	1045.252	1100.734	1161.067	1182.407	1157.575	1093.945	1034.776	999.468
48.5	1008.392	1033.418	1088.513	1148.264	1169.215	1143.414	1079.783	1020.808	987.829
49.0	993.455	1018.868	1076.679	1136.042	1155.829	1132.162	1068.919	1007.810	975.025
49.5	980.263	1005.676	1063.487	1124.208	1144.578	1121.880	1054.369	995.007	961.057
50.0	967.071	990.933	1051.265	1114.702	1134.102	1110.822	1043.118	982.203	949.805
50.5	955.819	980.457	1039.044	1102.480	1123.626	1096.855	1032.448	968.235	935.838
51.0	942.434	966.101	1026.046	1088.513	1110.046	1082.887	1020.420	954.073	920.706
51.5	927.302	951.357	1013.824	1075.321	1097.243	1070.859	1007.422	939.524	906.738
52.0	914.304	937.390	1002.184	1064.651	1085.021	1060.577	991.903	926.526	894.516
52.5	899.172	925.362	988.217	1053.787	1072.993	1049.713	979.293	913.722	882.489
53.0	887.533	912.364	977.159	1042.148	1061.741	1036.910	967.847	902.276	869.685
53.5	872.983	898.590	963.191	1028.956	1047.773	1022.554	954.849	888.309	855.329
54.0	861.537	884.817	948.835	1015.376	1034.582	1008.974	942.628	873.759	842.720
54.5	847.181	871.819	936.032	1001.990	1022.942	997.140	928.466	859.209	828.752

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55.0	831.274	857.463	923.810	989.575	1008.780	985.889	915.856	847.181	812.650
55.5	819.440	844.271	911.782	977.741	996.171	973.279	902.082	833.796	799.846
56.0	806.248	832.050	899.172	964.161	982.785	959.893	889.473	819.440	786.655
56.5	792.280	818.664	885.981	949.611	969.787	945.150	877.639	805.472	771.523
57.0	776.567	804.890	871.625	935.256	955.819	930.988	864.447	792.668	758.331
57.5	761.823	789.759	859.015	922.064	941.658	918.184	851.837	779.865	743.781
58.0	749.989	776.567	847.181	908.872	927.884	906.350	837.482	764.539	730.784
58.5	736.992	763.181	834.766	897.232	913.722	890.249	823.320	751.929	717.398
59.0	723.218	750.765	822.932	882.683	898.978	877.445	811.486	737.186	702.460
59.5	707.310	736.604	808.576	869.879	884.817	863.089	798.876	723.994	689.850
60.0	693.924	723.412	795.772	854.359	870.655	849.703	785.685	710.802	677.047
60.5	681.509	708.862	783.745	840.780	856.881	836.706	772.881	697.804	663.273
61.0	668.705	696.834	769.777	826.618	840.586	823.514	760.077	684.031	647.947
61.5	654.543	682.285	755.615	812.456	825.066	809.158	745.139	670.451	634.368
62.0	639.799	669.287	743.199	798.682	811.486	793.250	732.142	656.677	621.952
62.5	625.832	655.707	729.814	784.133	796.548	779.089	718.950	642.515	607.790
63.0	612.252	641.933	716.040	769.971	781.223	765.315	705.952	629.906	592.852
63.5	599.642	629.906	702.848	755.421	764.345	750.377	691.208	617.296	581.019
64.0	587.227	615.744	689.075	739.708	749.213	735.246	677.823	603.910	567.827
64.5	573.453	603.328	675.107	724.770	733.306	720.890	664.049	589.360	553.665
65.0	560.067	588.778	661.527	710.414	716.428	703.818	650.857	576.751	540.861
65.5	545.905	575.781	649.499	695.476	700.326	688.881	637.666	563.365	528.058
66.0	530.968	563.365	636.308	679.181	684.225	674.719	623.116	550.755	514.284
66.5	518.940	549.785	621.952	663.855	666.377	658.811	610.506	537.757	500.122
67.0	504.390	536.400	608.372	647.559	648.917	641.933	596.538	525.536	486.930
67.5	492.168	523.208	594.404	631.264	631.846	626.414	582.765	511.762	474.321
68.0	477.231	510.598	580.243	614.774	615.550	609.730	568.409	499.346	459.965
68.5	464.233	497.212	566.469	599.254	598.090	594.598	555.023	485.572	446.967
69.0	451.817	484.409	552.501	583.929	580.049	578.109	541.055	472.769	434.745
69.5	438.237	471.217	539.309	567.051	562.589	560.843	527.864	459.771	420.584
70.0	424.076	458.995	524.566	549.979	545.129	544.353	513.702	446.967	406.228
70.5	409.332	445.415	510.986	533.102	527.282	527.476	499.734	434.164	394.006
71.0	395.752	432.612	496.436	516.418	509.434	510.404	486.348	422.330	381.979
71.5	382.949	420.002	482.275	499.346	492.556	494.496	471.217	409.720	368.593
72.0	369.951	407.198	468.501	481.887	474.709	477.813	456.667	395.946	355.789
72.5	357.147	395.170	454.533	464.815	456.085	460.547	442.893	383.336	341.821
73.0	343.567	382.755	439.595	447.743	439.595	443.475	428.538	370.339	329.212
73.5	330.376	369.175	424.658	431.642	421.748	426.598	413.988	358.699	316.990
74.0	317.378	356.371	409.526	414.764	403.706	410.108	399.244	346.477	303.604
74.5	305.156	344.149	395.170	397.304	386.052	394.006	385.276	333.673	291.188
75.0	293.128	331.928	381.203	380.039	369.951	376.353	369.951	320.482	278.967
75.5	280.907	319.706	366.847	363.549	352.103	359.669	355.789	308.454	266.163
76.0	268.879	307.290	351.715	346.477	334.643	342.597	341.239	296.426	254.329
76.5	257.239	295.068	336.777	330.182	317.378	326.690	326.690	284.592	242.689
77.0	245.211	282.846	321.646	313.498	301.082	310.394	310.782	272.371	231.243
77.5	232.795	270.819	306.708	297.590	284.786	293.516	296.620	259.955	220.574
78.0	221.350	258.985	292.158	281.682	268.685	277.415	282.070	247.927	207.964
78.5	210.292	246.957	277.803	265.581	252.583	260.925	267.715	236.093	196.712
79.0	199.040	234.735	263.059	249.285	236.287	244.629	253.165	224.066	185.907
79.5	187.323	222.708	247.539	233.377	219.798	228.334	238.615	212.232	175.489
80.0	176.517	210.486	233.377	216.500	203.696	212.814	223.678	200.010	165.498
80.5	166.041	199.234	218.246	200.592	188.293	196.906	208.934	188.875	154.848
81.0	155.197	187.517	203.502	184.840	172.909	181.697	194.190	177.448	144.159
81.5	144.624	175.935	188.642	169.087	157.641	166.022	179.796	165.750	134.032
82.0	134.110	163.907	173.607	153.800	142.219	150.386	164.858	154.227	124.041
82.5	124.061	152.054	158.863	138.610	127.048	134.886	150.347	142.529	114.865

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	114.031	140.473	143.674	123.226	112.479	120.103	135.584	130.947	105.379
83.5	104.312	128.794	128.813	108.580	98.065	105.262	120.685	119.288	95.951
84.0	94.593	117.251	114.109	93.875	84.272	90.616	106.194	107.668	86.794
84.5	85.126	105.709	99.617	79.519	70.498	76.551	92.206	96.688	77.889
85.0	76.105	94.282	85.203	65.707	57.481	62.971	78.219	85.281	69.586
85.5	67.608	82.604	71.003	52.612	44.988	49.857	64.581	73.951	61.128
86.0	58.839	71.274	57.462	40.196	33.484	37.286	50.943	62.428	52.534
86.5	50.342	59.634	44.425	28.401	22.523	26.112	38.023	50.982	44.348
87.0	41.942	47.878	32.339	17.964	13.754	16.199	26.228	39.847	36.161
87.5	34.434	36.374	21.010	11.329	10.068	10.495	15.869	28.847	28.188
88.0	26.616	25.336	11.776	8.439	7.760	7.993	9.098	18.507	20.447
88.5	19.089	14.957	7.255	6.111	5.587	5.742	5.800	9.215	13.328
89.0	12.067	6.732	4.695	3.919	3.511	3.453	3.531	3.705	6.829
89.5	5.936	2.852	2.522	1.901	1.668	1.571	1.649	1.571	2.231
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
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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

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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

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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_4000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	649.93	N.A.	12.80
0-30	1375.88	N.A.	27.10
0-40	2246.54	N.A.	44.30
0-60	3971.19	N.A.	78.30
0-80	4980.85	N.A.	98.20
0-90	5072.25	N.A.	100.00
10-90	4903.79	N.A.	96.70
20-40	1596.61	N.A.	31.50
20-50	2500.02	N.A.	49.30
40-70	2362.15	N.A.	46.60
60-80	1009.66	N.A.	19.90
70-80	372.16	N.A.	7.30
80-90	91.40	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	5072.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.47
10-20	481.47
20-30	725.95
30-40	870.66
40-50	903.42
50-60	821.23
60-70	637.50
70-80	372.16
80-90	91.40
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_4000K_.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_4000K_.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	17.0	18.7	17.4	19.0	19.3	18.1	19.8	18.5	20.1	20.4
	3H	18.8	20.3	19.2	20.6	21.0	20.1	21.6	20.5	21.9	22.3
	4H	19.4	20.8	19.8	21.2	21.6	20.8	22.2	21.2	22.5	22.9
	6H	19.9	21.2	20.3	21.6	22.0	21.2	22.5	21.6	22.9	23.3
	8H	20.1	21.3	20.5	21.7	22.1	21.3	22.6	21.7	22.9	23.3
	12H	20.2	21.4	20.6	21.7	22.2	21.4	22.5	21.8	22.9	23.4

UGR Viewed Endwise

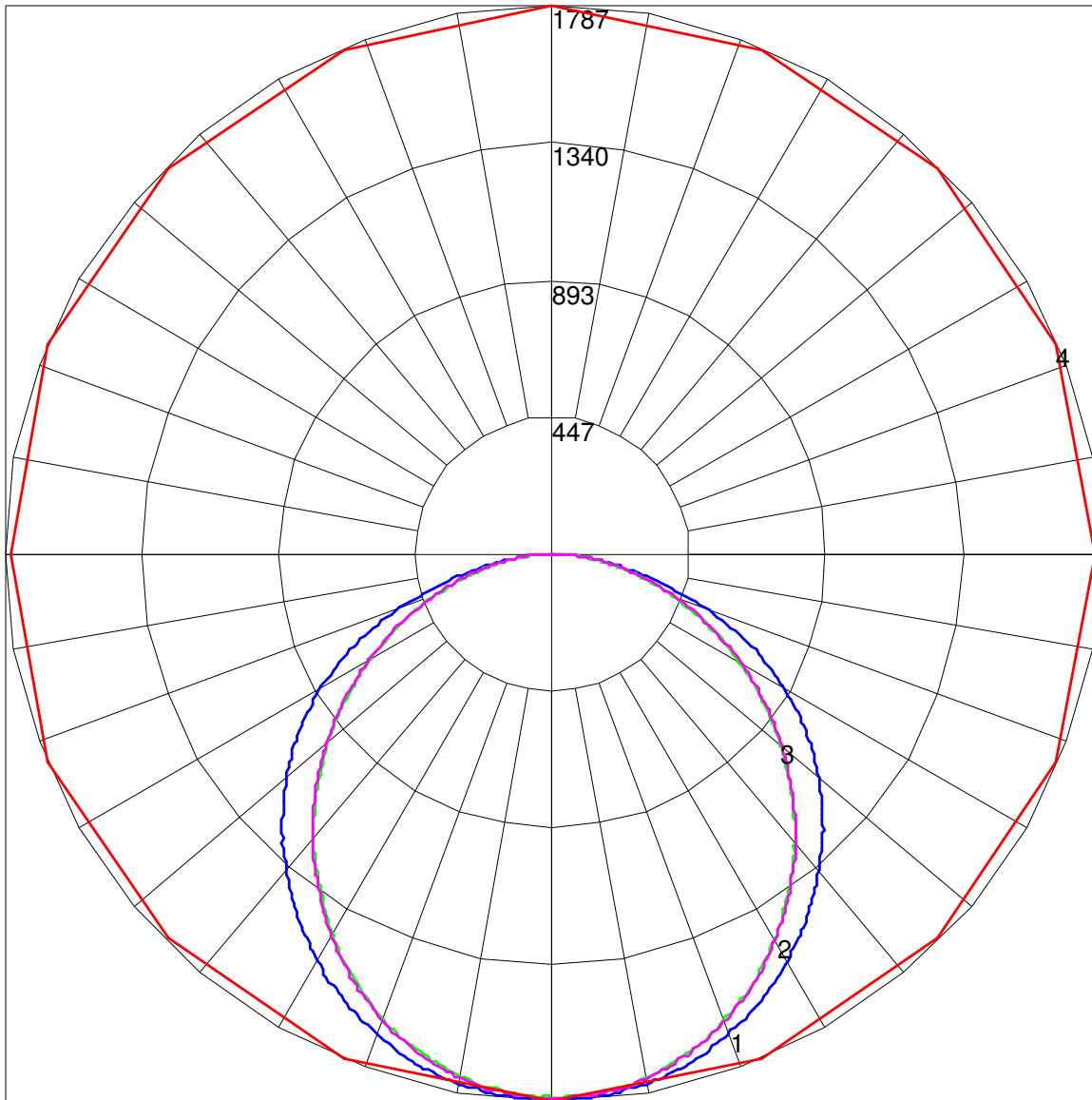
4H	2H	17.8	19.3	18.2	19.6	20.0	18.7	20.1	19.1	20.5	20.8
	3H	19.8	21.0	20.3	21.4	21.8	20.9	22.1	21.3	22.5	22.9
	4H	20.6	21.7	21.1	22.1	22.6	21.7	22.8	22.1	23.2	23.6
	6H	21.3	22.2	21.7	22.6	23.1	22.3	23.2	22.7	23.7	24.1
	8H	21.5	22.3	21.9	22.8	23.2	22.4	23.3	22.9	23.8	24.2
	12H	21.6	22.4	22.1	22.9	23.3	22.5	23.3	23.0	23.8	24.2

8H	4H	21.1	22.0	21.6	22.4	22.9	22.0	22.9	22.5	23.3	23.8
	6H	21.9	22.6	22.4	23.1	23.6	22.7	23.4	23.2	23.9	24.4
	8H	22.1	22.8	22.6	23.3	23.8	22.9	23.6	23.4	24.1	24.6
	12H	22.4	23.0	22.9	23.4	24.0	23.0	23.6	23.5	24.1	24.7

12H	4H	21.1	21.9	21.6	22.4	22.9	22.0	22.8	22.5	23.3	23.8
	6H	22.0	22.6	22.5	23.1	23.6	22.8	23.4	23.3	23.9	24.4
	8H	22.3	22.9	22.8	23.4	23.9	23.0	23.6	23.5	24.1	24.6

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1786.705 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.)