

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_3500K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-20

[TEST DATE] 2/23/2024

[MANUFAC] WILLIAMS INDOOR, H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] FS-4-LS-8CS-DIM-UNV_42W_3500K_

[LUMINAIRE] 45 INCH, 224 LEDS, LUMEN/WATTAGE/CCT SELECTABLE, LED STRIP

[MORE] WITH FROSTED ACRYLIC LENS

[SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	41.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23777	22499	23322
55	21642	20829	22191
65	19066	19001	20990
75	15700	17035	19514
85	10856	15682	18574

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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	1735.987	1735.987	1735.987	1735.987	1735.987	1735.987	1735.987	1735.987	1735.987
0.5	1713.145	1742.705	1738.674	1738.674	1730.612	1740.018	1738.674	1745.392	1714.488
1.0	1711.801	1741.361	1735.987	1740.018	1729.268	1740.018	1735.987	1744.049	1714.488
1.5	1714.488	1741.361	1733.299	1738.674	1730.612	1740.018	1735.987	1742.705	1714.488
2.0	1714.488	1740.018	1735.987	1740.018	1729.268	1742.705	1735.987	1744.049	1713.145
2.5	1713.145	1738.674	1733.299	1738.674	1729.268	1737.330	1735.987	1741.361	1710.457
3.0	1709.114	1738.674	1731.956	1738.674	1729.268	1738.674	1734.643	1742.705	1710.457
3.5	1710.457	1735.987	1730.612	1734.643	1726.581	1735.987	1733.299	1738.674	1711.801
4.0	1706.427	1733.299	1727.925	1735.987	1727.925	1734.643	1731.956	1740.018	1707.770
4.5	1707.770	1729.268	1727.925	1733.299	1725.238	1734.643	1729.268	1737.330	1705.083
5.0	1701.052	1727.925	1723.894	1731.956	1725.238	1733.299	1727.925	1734.643	1705.083
5.5	1699.708	1727.925	1722.550	1730.612	1725.238	1731.956	1727.925	1731.956	1701.052
6.0	1697.021	1723.894	1719.863	1729.268	1721.207	1729.268	1723.894	1731.956	1699.708
6.5	1694.334	1721.207	1718.519	1725.238	1718.519	1727.925	1722.550	1729.268	1697.021
7.0	1690.303	1717.176	1715.832	1721.207	1715.832	1725.238	1721.207	1727.925	1698.365
7.5	1688.959	1715.832	1711.801	1721.207	1713.145	1722.550	1717.176	1725.238	1692.990
8.0	1686.272	1711.801	1709.114	1717.176	1713.145	1721.207	1715.832	1722.550	1690.303
8.5	1682.241	1707.770	1705.083	1713.145	1707.770	1717.176	1713.145	1718.519	1684.928
9.0	1679.554	1703.739	1699.708	1711.801	1705.083	1713.145	1709.114	1717.176	1682.241
9.5	1671.492	1699.708	1699.708	1709.114	1702.396	1711.801	1706.427	1711.801	1678.210
10.0	1670.148	1698.365	1692.990	1701.052	1701.052	1707.770	1703.739	1709.114	1676.866
10.5	1660.743	1690.303	1690.303	1701.052	1694.334	1705.083	1699.708	1703.739	1670.148
11.0	1659.399	1688.959	1686.272	1695.677	1691.646	1701.052	1692.990	1697.021	1670.148
11.5	1654.024	1682.241	1680.897	1691.646	1688.959	1695.677	1690.303	1695.677	1663.430
12.0	1648.650	1676.866	1678.210	1687.616	1683.585	1692.990	1684.928	1690.303	1656.712
12.5	1641.932	1671.492	1672.835	1684.928	1683.585	1686.272	1680.897	1683.585	1654.024
13.0	1639.244	1668.805	1666.117	1679.554	1678.210	1683.585	1676.866	1680.897	1645.963
13.5	1635.213	1662.086	1663.430	1672.835	1672.835	1678.210	1672.835	1676.866	1640.588
14.0	1627.152	1655.368	1656.712	1668.805	1667.461	1674.179	1666.117	1671.492	1635.213
14.5	1617.746	1648.650	1649.994	1663.430	1662.086	1667.461	1662.086	1666.117	1631.183
15.0	1613.715	1644.619	1647.306	1660.743	1656.712	1663.430	1655.368	1659.399	1624.464
15.5	1608.341	1640.588	1639.244	1654.024	1651.337	1656.712	1651.337	1652.681	1619.090
16.0	1604.310	1631.183	1633.870	1649.994	1644.619	1651.337	1643.275	1647.306	1609.684
16.5	1592.217	1625.808	1625.808	1644.619	1639.244	1645.963	1636.557	1640.588	1608.341
17.0	1585.499	1619.090	1621.777	1637.901	1633.870	1637.901	1631.183	1635.213	1598.935
17.5	1578.780	1611.028	1613.715	1629.839	1627.152	1631.183	1623.121	1629.839	1594.904
18.0	1574.750	1601.622	1605.653	1621.777	1621.777	1623.121	1617.746	1619.090	1586.842
18.5	1566.688	1596.248	1598.935	1617.746	1615.059	1617.746	1609.684	1613.715	1580.124
19.0	1555.939	1588.186	1590.873	1609.684	1606.997	1611.028	1604.310	1605.653	1572.062
19.5	1550.564	1581.468	1584.155	1602.966	1598.935	1602.966	1597.591	1598.935	1562.657
20.0	1542.502	1572.062	1576.093	1594.904	1592.217	1597.591	1589.530	1590.873	1555.939
20.5	1533.097	1564.000	1569.375	1588.186	1585.499	1588.186	1582.811	1582.811	1549.220
21.0	1526.378	1555.939	1559.969	1578.780	1577.437	1582.811	1572.062	1577.437	1538.471
21.5	1515.629	1547.877	1551.908	1570.719	1572.062	1576.093	1566.688	1568.031	1531.753
22.0	1508.911	1541.158	1545.189	1562.657	1564.000	1566.688	1558.626	1559.969	1523.691
22.5	1496.818	1529.066	1535.784	1555.939	1558.626	1562.657	1550.564	1550.564	1512.942
23.0	1488.756	1521.004	1527.722	1546.533	1550.564	1553.251	1543.846	1542.502	1507.567
23.5	1482.038	1511.598	1521.004	1539.815	1545.189	1549.220	1535.784	1534.440	1498.162
24.0	1468.602	1503.536	1511.598	1531.753	1537.128	1541.158	1527.722	1522.347	1484.725
24.5	1463.227	1495.475	1502.193	1525.035	1530.409	1534.440	1518.317	1514.286	1476.664
25.0	1452.478	1482.038	1494.131	1518.317	1526.378	1527.722	1510.255	1506.224	1468.602
25.5	1440.385	1473.976	1482.038	1511.598	1519.660	1519.660	1503.536	1498.162	1460.540
26.0	1429.636	1465.914	1473.976	1500.849	1511.598	1511.598	1494.131	1488.756	1448.447
26.5	1420.231	1453.822	1465.914	1495.475	1504.880	1503.536	1484.725	1478.007	1440.385

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27.0	1412.169	1444.416	1457.853	1486.069	1494.131	1495.475	1475.320	1468.602	1429.636
27.5	1400.076	1436.354	1448.447	1479.351	1487.413	1486.069	1467.258	1459.196	1418.887
28.0	1390.670	1422.918	1436.354	1471.289	1480.695	1478.007	1456.509	1448.447	1409.481
28.5	1381.265	1413.512	1428.292	1461.884	1472.633	1469.945	1448.447	1439.042	1400.076
29.0	1370.516	1402.763	1418.887	1453.822	1464.571	1460.540	1439.042	1429.636	1387.983
29.5	1359.767	1393.358	1409.481	1444.416	1455.165	1452.478	1430.980	1417.543	1377.234
30.0	1346.330	1382.609	1400.076	1435.011	1447.103	1444.416	1420.231	1408.138	1365.141
30.5	1335.715	1371.859	1389.327	1426.949	1439.042	1435.011	1410.825	1397.389	1354.392
31.0	1324.429	1359.767	1379.921	1417.543	1430.980	1426.949	1400.076	1386.640	1346.330
31.5	1315.964	1347.674	1370.516	1408.138	1421.574	1418.887	1392.014	1375.890	1331.819
32.0	1301.856	1339.343	1359.767	1400.076	1413.512	1410.825	1382.609	1365.141	1321.876
32.5	1292.719	1327.251	1349.018	1390.670	1405.451	1401.420	1370.516	1353.048	1312.605
33.0	1279.551	1316.501	1337.193	1382.609	1398.732	1393.358	1359.767	1341.224	1297.556
33.5	1267.727	1305.080	1327.116	1374.547	1389.327	1382.609	1350.361	1330.878	1288.016
34.0	1256.978	1293.794	1319.323	1363.798	1381.265	1374.547	1341.762	1320.801	1278.208
34.5	1244.482	1281.164	1307.902	1354.392	1373.203	1365.141	1331.147	1307.230	1264.502
35.0	1234.674	1270.280	1298.362	1346.330	1363.798	1355.736	1321.070	1296.750	1255.500
35.5	1222.446	1257.784	1288.822	1337.597	1357.079	1346.330	1309.649	1284.120	1240.989
36.0	1208.069	1244.885	1277.267	1328.057	1347.674	1339.075	1298.900	1272.967	1231.314
36.5	1195.573	1233.733	1268.399	1318.114	1339.746	1329.266	1288.957	1261.278	1220.162
37.0	1185.899	1220.968	1256.306	1310.589	1331.550	1320.398	1277.804	1249.588	1210.891
37.5	1173.000	1210.488	1246.498	1300.781	1322.816	1309.783	1268.802	1238.839	1199.201
38.0	1159.161	1198.261	1235.345	1292.047	1314.217	1300.378	1258.053	1227.821	1185.362
38.5	1148.009	1186.034	1226.343	1282.238	1304.543	1291.107	1246.229	1216.937	1172.194
39.0	1134.572	1173.000	1215.056	1272.699	1295.406	1281.432	1236.823	1206.457	1159.430
39.5	1121.807	1159.833	1204.845	1262.756	1287.076	1272.027	1225.402	1194.633	1144.515
40.0	1108.102	1149.218	1194.230	1253.619	1279.282	1263.562	1214.788	1183.749	1130.541
40.5	1096.547	1137.125	1183.749	1243.945	1268.936	1253.888	1204.307	1169.910	1117.373
41.0	1081.901	1123.554	1172.597	1235.077	1258.590	1244.482	1193.558	1157.683	1104.206
41.5	1069.809	1110.252	1163.460	1225.940	1251.603	1233.867	1182.003	1143.037	1090.904
42.0	1055.835	1098.428	1151.771	1215.863	1242.332	1226.343	1171.388	1129.198	1078.945
42.5	1043.339	1085.798	1140.619	1206.994	1233.464	1215.594	1159.430	1116.836	1065.778
43.0	1029.902	1074.646	1129.869	1196.917	1224.327	1205.248	1149.352	1102.056	1052.610
43.5	1018.213	1063.090	1118.583	1186.840	1216.131	1195.305	1139.409	1089.023	1041.055
44.0	1006.792	1049.385	1108.102	1177.972	1206.860	1186.705	1127.182	1075.049	1027.215
44.5	990.802	1036.486	1095.203	1167.626	1197.589	1177.569	1118.045	1062.687	1014.988
45.0	979.113	1023.722	1086.335	1158.220	1188.452	1166.013	1107.431	1048.713	1002.358
45.5	967.020	1011.226	1073.839	1148.277	1177.434	1157.414	1096.278	1037.427	989.727
46.0	953.718	1000.611	1063.493	1137.394	1168.298	1148.143	1085.798	1024.125	975.485
46.5	942.028	987.981	1051.938	1126.242	1159.564	1136.856	1075.049	1012.166	963.795
47.0	928.323	974.410	1041.055	1118.314	1149.890	1129.063	1065.106	999.805	951.702
47.5	914.886	962.317	1029.902	1107.162	1141.290	1119.523	1054.222	987.040	936.250
48.0	904.406	949.821	1019.691	1099.234	1130.272	1107.296	1043.607	974.141	925.770
48.5	889.760	937.325	1008.673	1087.007	1121.539	1098.294	1032.590	961.780	910.318
49.0	881.161	926.845	998.461	1077.736	1111.865	1088.485	1021.169	949.821	898.225
49.5	869.606	912.871	987.578	1067.927	1101.384	1079.080	1007.195	936.519	886.267
50.0	856.035	902.122	976.694	1057.850	1092.785	1069.002	997.117	923.755	875.921
50.5	842.598	892.582	963.392	1047.638	1083.111	1058.522	985.562	911.796	864.500
51.0	829.968	880.892	954.255	1037.292	1074.108	1048.445	972.797	898.628	849.720
51.5	817.472	869.203	942.297	1028.424	1065.778	1038.502	961.645	890.970	836.955
52.0	804.305	856.169	932.354	1018.616	1055.297	1028.693	949.552	878.742	823.384
52.5	792.212	844.345	921.202	1008.270	1045.489	1018.347	938.938	867.859	811.023
53.0	778.641	831.312	909.512	998.461	1035.411	1009.613	928.054	854.691	798.930
53.5	766.414	819.219	898.628	987.981	1025.334	998.864	915.961	842.061	784.822
54.0	753.112	807.933	888.820	977.769	1014.585	988.787	906.153	829.700	771.117
54.5	740.213	794.765	880.892	966.482	1006.254	979.247	894.329	816.801	758.890

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55.0	726.373	782.403	870.546	956.808	996.177	968.363	887.611	805.111	745.319
55.5	713.743	771.385	859.125	945.790	985.293	958.017	877.130	792.749	731.882
56.0	701.113	757.949	847.839	935.041	976.157	948.343	865.575	779.985	719.924
56.5	689.020	745.453	836.552	925.367	964.870	935.982	853.482	766.280	706.219
57.0	675.852	732.823	825.669	914.349	955.196	925.770	842.195	754.321	691.842
57.5	663.491	721.402	815.457	904.137	943.640	914.618	830.640	740.885	679.212
58.0	651.398	708.772	803.230	893.657	932.623	903.869	818.816	728.926	666.447
58.5	638.365	696.276	791.943	886.401	922.411	895.001	807.664	716.430	652.876
59.0	626.406	684.183	781.866	878.608	912.468	886.401	795.437	703.128	640.918
59.5	613.507	672.359	770.042	865.978	901.181	876.324	784.553	691.439	627.213
60.0	601.146	660.401	757.815	855.497	894.597	865.172	772.863	679.212	615.657
60.5	588.650	648.173	746.394	845.958	884.923	854.423	762.517	666.044	601.415
61.0	575.079	636.081	735.779	833.865	874.980	842.867	750.559	654.757	588.784
61.5	562.852	623.853	725.030	822.713	864.500	831.849	739.675	641.321	576.020
62.0	550.356	611.895	714.012	812.232	852.810	821.906	727.180	629.497	562.986
62.5	537.995	600.205	702.994	801.349	841.389	809.814	716.699	616.866	550.356
63.0	526.036	587.978	691.842	790.465	830.640	799.199	705.144	605.042	537.995
63.5	513.406	576.557	680.555	778.775	820.025	788.047	693.320	592.681	525.633
64.0	500.373	564.599	669.806	767.892	809.007	777.297	682.436	580.454	512.197
64.5	486.936	552.640	657.848	756.471	797.183	766.951	670.612	568.630	499.701
65.0	475.247	541.622	646.695	745.587	786.300	755.127	659.863	556.537	487.071
65.5	463.557	529.664	635.677	735.510	776.223	744.244	649.114	544.444	474.843
66.0	450.792	517.840	625.197	722.880	764.936	732.689	637.021	532.217	462.213
66.5	439.640	506.419	613.642	712.534	753.112	721.402	626.406	520.259	449.852
67.0	427.413	495.267	602.489	701.247	742.228	709.443	614.314	508.703	438.162
67.5	415.857	483.711	591.875	689.423	730.404	698.829	604.102	497.282	426.204
68.0	403.899	472.559	579.916	679.615	719.655	687.811	592.412	485.458	414.648
68.5	392.209	461.541	569.705	667.387	708.503	675.852	580.991	473.903	401.749
69.0	380.520	449.583	558.687	657.444	697.216	665.372	569.973	463.019	390.328
69.5	368.158	438.431	547.803	645.620	685.795	654.354	559.359	451.330	377.564
70.0	357.006	427.413	536.382	634.737	674.374	642.396	547.803	439.371	366.143
70.5	345.854	415.589	525.767	623.182	663.357	631.915	536.785	427.816	354.587
71.0	333.627	405.108	515.018	612.970	652.204	620.629	526.036	416.395	342.629
71.5	322.609	393.822	504.941	601.952	641.052	610.283	514.615	405.108	330.805
72.0	311.188	383.610	493.386	590.262	629.765	598.727	504.404	394.359	318.443
72.5	299.901	372.592	483.040	579.648	619.285	588.247	493.251	382.804	306.888
73.0	288.480	362.246	472.022	568.092	607.730	576.423	482.637	371.652	296.408
73.5	277.731	351.766	461.676	556.671	596.174	565.539	472.022	360.768	284.718
74.0	266.713	340.882	451.330	546.997	585.560	554.521	461.004	349.885	273.700
74.5	255.023	329.864	440.043	535.576	574.004	543.907	451.061	338.598	262.010
75.0	243.871	319.787	429.966	525.364	563.793	532.620	440.715	328.252	251.396
75.5	233.794	309.575	420.157	514.078	552.640	521.871	429.831	317.234	240.378
76.0	222.642	299.364	409.811	504.000	541.757	511.525	420.023	307.157	229.494
76.5	212.564	289.421	399.734	493.251	530.739	500.373	409.408	296.273	219.551
77.0	202.621	279.478	389.656	482.368	519.721	490.027	398.793	286.196	208.936
77.5	192.410	269.669	379.848	472.290	509.644	479.143	388.716	275.581	198.725
78.0	181.929	259.861	370.174	461.810	498.357	468.931	379.042	266.041	188.513
78.5	171.986	250.589	360.231	451.598	488.145	458.720	369.233	256.233	178.436
79.0	162.178	241.050	350.960	441.252	477.396	448.239	359.156	246.827	168.896
79.5	153.175	231.644	341.823	431.444	467.588	439.103	349.885	237.153	158.684
80.0	144.039	222.239	332.417	421.098	457.779	428.488	340.210	227.747	149.547
80.5	134.633	213.236	323.146	411.692	447.030	418.948	331.208	219.283	140.142
81.0	125.496	204.637	314.144	401.749	437.356	408.736	322.071	210.011	131.408
81.5	116.763	195.903	305.007	392.344	427.413	399.196	313.069	201.546	122.540
82.0	108.163	187.573	296.273	382.938	416.798	389.791	304.066	193.216	113.941
82.5	100.236	178.973	287.540	374.339	407.124	379.848	294.930	185.020	105.745

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CANDELA TABULATION - (Cont.)

83.0	91.771	170.911	278.940	364.933	397.987	370.442	286.733	176.823	97.548
83.5	83.843	163.118	270.475	355.797	388.313	361.709	277.865	168.896	89.621
84.0	76.050	155.459	262.279	346.794	379.176	352.841	269.938	161.103	81.828
84.5	68.526	147.935	254.083	338.329	370.039	343.838	261.607	153.578	74.572
85.0	61.539	140.948	245.887	329.461	361.171	334.836	253.411	146.323	67.048
85.5	54.552	133.558	238.362	320.728	352.169	326.505	245.618	138.530	60.061
86.0	47.565	126.706	230.838	312.800	343.435	318.175	237.556	131.543	52.940
86.5	40.981	119.987	223.582	304.604	335.105	309.575	230.166	124.421	46.087
87.0	34.397	113.403	216.058	296.676	326.640	301.782	222.910	117.703	39.234
87.5	28.351	107.223	209.071	289.421	318.578	294.123	215.386	111.119	32.651
88.0	22.439	100.504	202.487	282.031	311.188	286.599	208.533	104.401	26.067
88.5	16.527	94.727	196.441	275.312	303.663	279.746	202.084	97.817	19.348
89.0	10.615	89.218	190.797	268.729	297.079	272.760	195.769	92.040	13.033
89.5	5.240	84.650	185.423	262.682	290.496	266.713	190.394	86.934	6.853
90.0	1.881	80.484	180.720	256.770	284.180	260.532	185.423	82.500	2.150
90.5	1.209	76.991	176.152	251.127	277.865	254.486	180.451	78.737	1.209
91.0	1.209	74.035	171.583	245.618	271.953	249.111	175.345	75.781	1.075
91.5	1.209	71.885	167.687	240.243	266.310	243.871	171.449	73.497	1.075
92.0	1.209	70.004	163.656	235.541	261.204	239.168	167.687	71.616	1.075
92.5	1.209	68.257	160.834	231.241	256.233	234.600	164.462	69.869	1.075
93.0	1.209	66.645	157.878	227.076	251.530	230.435	161.506	68.123	1.075
93.5	1.209	65.032	155.191	223.448	247.499	226.538	158.684	66.510	1.075
94.0	1.209	63.554	152.638	219.686	243.468	222.910	156.266	64.898	1.075
94.5	1.209	62.076	150.354	216.461	239.840	219.551	153.713	63.286	1.075
95.0	1.209	60.598	148.069	213.236	236.347	215.923	151.160	61.808	1.075
95.5	1.209	59.255	145.517	210.011	232.450	212.833	148.741	60.464	1.075
96.0	1.209	57.911	143.367	206.787	229.091	209.474	146.323	59.120	1.075
96.5	1.209	56.567	140.948	203.831	225.732	206.518	143.770	57.642	1.075
97.0	1.209	55.224	138.798	200.472	222.239	203.024	141.620	56.299	1.075
97.5	1.209	53.880	136.380	197.784	218.879	200.203	139.336	55.089	1.075
98.0	1.209	52.671	134.230	194.559	215.789	197.112	136.917	53.746	1.075
98.5	1.209	51.596	132.214	191.738	212.699	194.022	134.767	52.402	1.075
99.0	1.209	50.252	129.796	189.051	209.608	191.066	132.483	51.193	1.075
99.5	1.209	49.043	127.780	186.229	206.384	188.244	130.333	49.984	1.075
100.0	1.209	47.968	125.496	183.407	203.293	185.423	128.049	48.774	1.075
100.5	1.209	46.759	123.481	180.586	200.068	182.735	126.034	47.699	1.209
101.0	1.209	45.818	121.465	177.764	197.247	180.048	124.018	46.490	1.209
101.5	1.209	44.609	119.315	175.077	194.425	177.092	121.734	45.415	1.209
102.0	1.344	43.668	117.434	172.389	191.200	174.674	119.853	44.340	1.209
102.5	1.344	42.593	115.419	169.836	188.110	172.121	117.703	43.265	1.209
103.0	1.344	41.653	113.403	167.149	185.288	169.433	115.688	42.190	1.209
103.5	1.344	40.578	111.388	164.865	182.601	166.746	113.807	41.115	1.209
104.0	1.344	39.637	109.641	162.446	179.914	164.193	111.657	40.041	1.209
104.5	1.344	38.697	107.626	159.625	177.361	161.640	109.776	39.100	1.344
105.0	1.344	37.756	105.879	157.341	174.405	159.222	107.895	38.159	1.344
105.5	1.344	36.816	104.132	154.922	171.852	156.534	106.013	37.219	1.344
106.0	1.344	35.875	102.251	152.369	169.299	154.116	103.998	36.278	1.344
106.5	1.344	35.069	100.504	150.219	166.343	151.697	102.251	35.472	1.344
107.0	1.478	34.129	98.758	147.801	164.059	149.144	100.370	34.532	1.344
107.5	1.478	33.322	96.877	145.248	161.640	146.860	98.758	33.725	1.344
108.0	1.478	32.516	95.130	143.232	159.087	144.576	97.011	32.919	1.344
108.5	1.478	31.576	93.652	140.814	156.669	142.426	95.130	31.979	1.478
109.0	1.478	30.769	91.905	138.530	154.250	140.142	93.383	31.173	1.478
109.5	1.478	29.963	90.158	136.245	151.966	137.858	91.771	30.366	1.478
110.0	1.478	29.291	88.680	134.096	149.547	135.574	90.158	29.560	1.478
110.5	1.478	28.485	87.068	132.080	147.129	133.289	88.412	28.754	1.478

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111.0	1.478	27.679	85.456	129.930	144.979	131.408	86.799	28.082	1.478
111.5	1.612	27.007	83.978	127.915	142.695	129.124	85.053	27.276	1.478
112.0	1.612	26.201	82.365	125.631	140.545	126.974	83.575	26.470	1.478
112.5	1.612	25.529	80.753	123.884	138.261	124.959	81.962	25.798	1.612
113.0	1.612	24.857	79.409	121.600	135.977	122.943	80.350	24.992	1.612
113.5	1.612	24.186	77.663	119.584	133.692	120.659	78.872	24.320	1.612
114.0	1.612	23.379	76.319	117.703	131.811	118.644	77.394	23.648	1.612
114.5	1.612	22.708	74.841	115.688	129.527	116.763	75.781	22.842	1.612
115.0	1.612	22.170	73.363	113.807	127.512	114.747	74.169	22.170	1.612
115.5	1.612	21.364	71.885	111.925	125.362	112.732	72.691	21.498	1.612
116.0	1.612	20.826	70.541	109.776	123.346	110.851	71.213	20.826	1.747
116.5	1.612	20.155	69.063	108.029	121.331	108.969	69.869	20.289	1.747
117.0	1.612	19.483	67.585	106.013	119.181	106.954	68.391	19.617	1.747
117.5	1.612	18.811	66.242	104.267	117.300	105.073	66.913	18.945	1.747
118.0	1.612	18.274	65.032	102.251	115.285	103.192	65.570	18.274	1.747
118.5	1.612	17.602	63.689	100.504	113.403	101.311	64.226	17.736	1.747
119.0	1.612	17.064	62.345	98.758	111.388	99.564	62.882	17.064	1.747
119.5	1.612	16.392	61.001	97.011	109.373	97.817	61.539	16.527	1.747
120.0	1.612	15.855	59.658	94.996	107.491	95.802	60.061	15.855	1.747
120.5	1.612	15.318	58.314	93.518	105.476	94.055	58.852	15.318	1.881
121.0	1.612	14.646	57.105	91.636	103.461	92.308	57.508	14.780	1.881
121.5	1.612	13.974	55.896	89.890	101.848	90.562	56.299	14.108	1.881
122.0	1.612	13.436	54.686	88.143	99.698	88.815	55.089	13.571	1.881
122.5	1.612	12.899	53.343	86.396	97.952	86.934	53.880	13.033	1.881
123.0	1.612	12.362	52.133	84.784	96.070	85.321	52.536	12.496	1.881
123.5	1.612	11.824	50.924	83.037	94.189	83.709	51.327	11.958	1.881
124.0	1.612	11.287	49.849	81.290	92.443	81.962	50.118	11.421	1.881
124.5	1.612	10.749	48.640	79.678	90.696	80.081	48.909	10.884	2.015
125.0	1.612	10.212	47.431	78.066	88.949	78.469	47.699	10.346	2.015
125.5	1.612	9.674	46.221	76.453	87.068	76.856	46.490	9.809	2.015
126.0	1.612	9.271	45.012	74.975	85.321	75.244	45.281	9.271	2.015
126.5	1.612	8.734	43.937	73.363	83.575	73.632	44.206	8.734	2.015
127.0	1.612	8.196	42.862	71.751	81.693	72.019	43.131	8.331	2.015
127.5	1.612	7.793	41.787	70.273	80.081	70.407	41.922	7.793	2.015
128.0	1.612	7.256	40.578	68.660	78.469	69.063	40.847	7.390	2.150
128.5	1.612	6.853	39.369	67.182	76.856	67.585	39.772	6.987	2.150
129.0	1.612	6.449	38.294	65.570	75.110	65.973	38.697	6.584	2.150
129.5	1.612	6.181	37.353	64.092	73.497	64.495	37.622	6.315	2.150
130.0	1.747	5.778	36.413	62.614	71.885	63.017	36.681	5.912	2.150
130.5	1.747	5.509	35.203	61.270	70.273	61.673	35.607	5.643	2.284
131.0	1.747	5.240	34.263	59.926	68.660	60.061	34.532	5.375	2.284
131.5	1.747	4.971	33.322	58.448	67.048	58.717	33.591	5.106	2.284
132.0	1.747	4.703	32.247	57.105	65.435	57.239	32.516	4.837	2.284
132.5	1.747	4.434	31.307	55.627	63.957	55.896	31.576	4.568	2.284
133.0	1.747	4.300	30.366	54.149	62.479	54.418	30.635	4.434	2.419
133.5	1.747	4.165	29.291	52.805	60.867	53.074	29.560	4.300	2.419
134.0	1.747	4.031	28.217	51.462	59.523	51.596	28.620	4.165	2.419
134.5	1.747	3.897	27.142	50.118	57.911	50.252	27.679	4.031	2.419
135.0	1.747	3.762	26.067	48.774	56.433	48.909	26.738	3.897	2.419
135.5	1.747	3.628	25.126	47.296	54.955	47.565	25.798	3.762	2.419
136.0	1.747	3.493	24.051	45.953	53.477	46.221	24.857	3.628	2.419
136.5	1.747	3.493	23.111	44.743	51.999	44.878	24.051	3.628	2.553
137.0	1.747	3.359	22.036	43.534	50.521	43.534	23.111	3.493	2.553
137.5	1.747	3.359	21.095	42.190	49.177	42.325	22.170	3.493	2.553
138.0	1.747	3.225	20.155	40.847	47.834	40.981	21.364	3.359	2.553
138.5	1.747	3.225	19.348	39.637	46.490	39.772	20.558	3.359	2.553

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139.0	1.881	3.225	18.408	38.428	45.146	38.428	19.752	3.225	2.687
139.5	1.881	3.090	17.467	37.219	43.803	37.353	18.945	3.225	2.687
140.0	1.881	3.090	16.661	36.010	42.459	36.010	18.005	3.225	2.687
140.5	1.881	3.090	15.855	34.666	41.115	34.800	17.199	3.090	2.687
141.0	1.881	2.956	15.183	33.591	39.772	33.591	16.392	3.090	2.687
141.5	1.881	2.956	14.377	32.382	38.428	32.516	15.586	3.090	2.822
142.0	1.881	2.956	13.705	31.307	37.219	31.307	14.780	3.090	2.822
142.5	1.881	2.822	13.033	30.098	35.875	30.098	13.974	2.956	2.822
143.0	1.881	2.822	12.362	29.023	34.666	28.888	13.302	2.956	2.822
143.5	2.015	2.822	11.690	27.813	33.457	27.813	12.496	2.956	2.822
144.0	2.015	2.822	11.018	26.738	32.113	26.738	11.824	2.822	2.822
144.5	2.015	2.822	10.346	25.664	30.904	25.529	11.018	2.822	2.956
145.0	2.015	2.687	9.809	24.454	29.695	24.454	10.346	2.822	2.956
145.5	2.015	2.687	9.137	23.379	28.485	23.379	9.674	2.822	2.956
146.0	2.015	2.687	8.599	22.439	27.276	22.304	9.002	2.822	2.956
146.5	2.015	2.687	8.062	21.364	26.067	21.230	8.465	2.822	2.956
147.0	2.015	2.687	7.524	20.289	24.992	20.155	7.927	2.687	2.956
147.5	2.015	2.687	6.987	19.214	23.782	19.214	7.390	2.687	3.090
148.0	2.150	2.687	6.584	18.139	22.708	18.139	6.987	2.687	3.090
148.5	2.150	2.687	6.181	17.064	21.498	17.199	6.584	2.687	3.090
149.0	2.150	2.687	5.912	15.855	20.423	16.124	6.181	2.687	3.090
149.5	2.150	2.687	5.509	14.914	19.348	15.183	5.912	2.687	3.090
150.0	2.150	2.687	5.240	13.840	18.274	14.243	5.643	2.822	3.090
150.5	2.150	2.687	5.106	12.899	17.199	13.302	5.375	2.687	3.225
151.0	2.150	2.687	4.837	11.958	16.124	12.362	5.106	2.687	3.225
151.5	2.284	2.687	4.703	11.152	15.183	11.555	4.971	2.822	3.225
152.0	2.284	2.822	4.568	10.212	14.108	10.615	4.703	2.822	3.225
152.5	2.284	2.822	4.434	9.540	13.168	9.809	4.568	2.822	3.225
153.0	2.284	2.822	4.300	8.868	12.093	9.002	4.434	2.822	3.225
153.5	2.284	2.822	4.165	8.196	11.152	8.331	4.300	2.822	3.225
154.0	2.284	2.822	4.031	7.524	10.212	7.793	4.165	2.822	3.359
154.5	2.419	2.822	3.897	6.987	9.406	7.121	4.031	2.822	3.359
155.0	2.419	2.822	3.762	6.449	8.599	6.584	3.897	2.822	3.359
155.5	2.419	2.956	3.762	6.046	7.927	6.181	3.897	2.822	3.359
156.0	2.419	2.956	3.628	5.643	7.256	5.778	3.762	2.956	3.359
156.5	2.553	2.956	3.628	5.240	6.718	5.375	3.628	2.956	3.359
157.0	2.553	2.956	3.493	4.971	6.181	5.106	3.628	2.956	3.359
157.5	2.553	2.956	3.493	4.837	5.643	4.837	3.493	2.956	3.359
158.0	2.553	2.956	3.359	4.568	5.375	4.568	3.493	2.956	3.493
158.5	2.553	3.090	3.359	4.434	4.971	4.434	3.359	2.956	3.493
159.0	2.687	3.090	3.225	4.165	4.703	4.165	3.359	3.090	3.493
159.5	2.687	3.090	3.225	4.031	4.434	4.031	3.225	3.090	3.493
160.0	2.687	3.090	3.225	3.897	4.300	3.897	3.225	3.090	3.493
160.5	2.687	3.090	3.090	3.762	4.031	3.762	3.225	3.090	3.493
161.0	2.687	3.090	3.090	3.628	3.897	3.628	3.090	3.090	3.493
161.5	2.822	3.090	3.090	3.628	3.762	3.628	3.090	3.090	3.493
162.0	2.822	3.225	3.090	3.493	3.628	3.493	3.090	3.090	3.493
162.5	2.822	3.225	3.090	3.359	3.493	3.359	3.090	3.225	3.493
163.0	2.822	3.225	3.090	3.225	3.359	3.359	3.090	3.225	3.628
163.5	2.822	3.225	3.090	3.225	3.225	3.225	3.090	3.225	3.628
164.0	2.956	3.225	3.090	3.090	3.225	3.090	3.090	3.225	3.628
164.5	2.956	3.225	3.090	3.090	3.090	3.090	3.090	3.225	3.628
165.0	2.956	3.359	3.090	3.090	3.090	3.090	3.090	3.225	3.628
165.5	2.956	3.359	3.090	3.090	2.956	3.090	3.090	3.359	3.628
166.0	3.090	3.359	3.225	3.090	2.956	2.956	3.225	3.359	3.628
166.5	3.090	3.359	3.225	3.090	2.956	2.956	3.225	3.359	3.628

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167.0	3.090	3.359	3.225	2.956	2.822	2.956	3.225	3.359	3.628
167.5	3.090	3.359	3.225	2.956	2.822	2.956	3.225	3.359	3.628
168.0	3.090	3.359	3.225	2.956	2.822	2.956	3.225	3.359	3.628
168.5	3.225	3.493	3.225	2.956	2.822	2.956	3.225	3.359	3.628
169.0	3.225	3.493	3.225	3.090	2.822	3.090	3.225	3.493	3.628
169.5	3.225	3.493	3.225	3.090	2.822	3.090	3.225	3.493	3.628
170.0	3.225	3.493	3.225	3.090	2.822	2.956	3.225	3.493	3.628
170.5	3.225	3.493	3.225	3.090	2.822	3.090	3.225	3.493	3.628
171.0	3.225	3.493	3.359	3.090	2.822	3.090	3.225	3.493	3.628
171.5	3.225	3.493	3.359	3.090	2.822	3.090	3.359	3.493	3.628
172.0	3.225	3.493	3.359	3.090	2.822	3.090	3.359	3.493	3.628
172.5	3.359	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
173.0	3.359	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
173.5	3.359	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
174.0	3.359	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
174.5	3.359	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
175.0	3.359	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
175.5	3.493	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
176.0	3.493	3.493	3.359	3.090	2.956	3.090	3.359	3.493	3.628
176.5	3.493	3.493	3.359	3.225	2.956	3.090	3.359	3.493	3.628
177.0	3.493	3.628	3.359	3.225	2.956	3.090	3.359	3.628	3.628
177.5	3.493	3.628	3.359	3.225	2.956	3.090	3.359	3.628	3.628
178.0	3.493	3.628	3.359	3.225	2.956	3.225	3.359	3.628	3.628
178.5	3.493	3.628	3.359	3.225	2.956	3.225	3.359	3.628	3.628
179.0	3.628	3.628	3.359	3.225	2.956	3.225	3.493	3.628	3.628
179.5	3.628	3.628	3.359	3.225	2.956	3.225	3.359	3.628	3.628
180.0	3.359	3.359	3.359	3.359	3.359	3.359	3.359	3.359	3.359

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_3500K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	629.00	N.A.	11.40
0-30	1321.29	N.A.	24.00
0-40	2142.27	N.A.	38.80
0-60	3771.11	N.A.	68.40
0-80	4860.35	N.A.	88.10
0-90	5119.32	N.A.	92.80
10-90	4955.42	N.A.	89.80
20-40	1513.26	N.A.	27.40
20-50	2359.78	N.A.	42.80
40-70	2269.51	N.A.	41.10
60-80	1089.24	N.A.	19.70
70-80	448.57	N.A.	8.10
80-90	258.98	N.A.	4.70
90-110	253.90	N.A.	4.60
90-120	322.48	N.A.	5.80
90-130	363.56	N.A.	6.60
90-150	393.51	N.A.	7.10
90-180	397.18	N.A.	7.20
110-180	143.29	N.A.	2.60
0-180	5516.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.90
10-20	465.10
20-30	692.28
30-40	820.98
40-50	846.51
50-60	782.33
60-70	640.66
70-80	448.57
80-90	258.98
90-100	149.96
100-110	103.93
110-120	68.59
120-130	41.07
130-140	21.29
140-150	8.66
150-160	2.45
160-170	0.92
170-180	0.31

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	79	77	75
2	96	87	80	73	92	84	78	72	80	74	69	75	71	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	63	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	52	44	38	50	42	37	48	41	36	45	40	35	33
7	62	49	40	34	60	48	39	33	45	38	33	43	37	32	41	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	28	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_3500K_.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	20.7	22.3	21.2	22.7	23.2	23.2	24.7	23.6	25.2	25.6
	3H	22.2	23.6	22.7	24.1	24.6	25.6	27.0	26.1	27.4	28.0
	4H	22.7	24.0	23.2	24.5	25.0	26.7	28.0	27.2	28.5	29.1
	6H	23.0	24.2	23.5	24.7	25.3	27.8	29.1	28.4	29.6	30.1
	8H	23.1	24.2	23.6	24.8	25.3	28.4	29.6	28.9	30.1	30.7
	12H	23.1	24.2	23.6	24.7	25.3	29.0	30.2	29.6	30.7	31.3

UGR Viewed Endwise

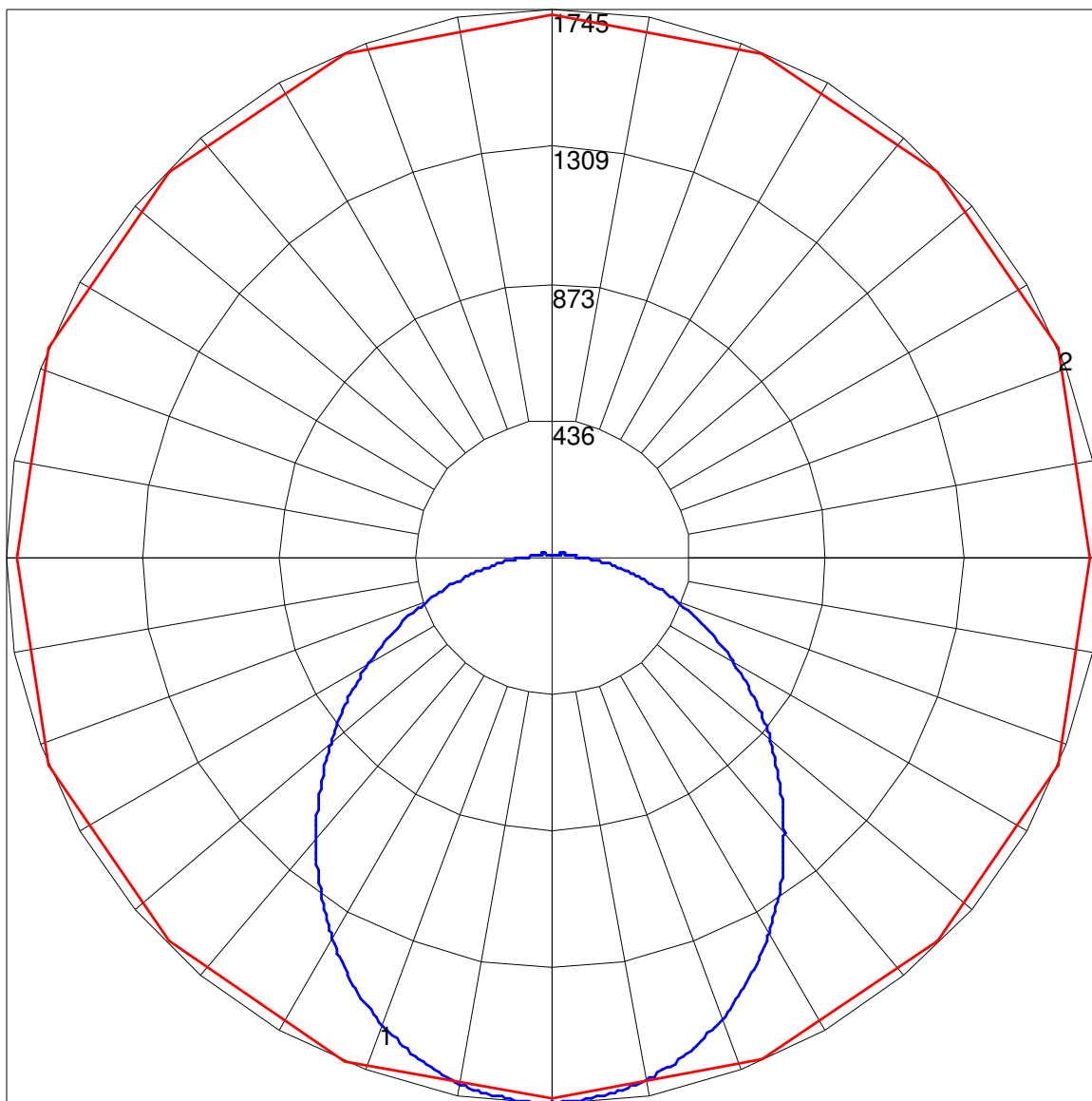
4H	2H	21.7	23.0	22.2	23.5	24.0	23.6	24.9	24.1	25.4	25.9
	3H	23.4	24.5	23.9	25.1	25.6	26.3	27.4	26.8	27.9	28.5
	4H	24.0	25.0	24.5	25.6	26.2	27.5	28.6	28.1	29.1	29.7
	6H	24.4	25.3	25.0	25.9	26.5	28.9	29.8	29.4	30.3	30.9
	8H	24.5	25.4	25.1	26.0	26.6	29.5	30.4	30.1	30.9	31.6
	12H	24.6	25.4	25.2	26.0	26.6	30.3	31.0	30.8	31.6	32.3

8H	4H	24.7	25.6	25.3	26.1	26.7	27.7	28.6	28.3	29.2	29.8
	6H	25.3	26.0	25.9	26.6	27.3	29.2	30.0	29.8	30.6	31.2
	8H	25.5	26.2	26.1	26.8	27.4	30.1	30.7	30.7	31.3	31.9
	12H	25.6	26.2	26.3	26.8	27.5	31.0	31.5	31.6	32.1	32.8

12H	4H	24.9	25.7	25.5	26.3	26.9	27.7	28.5	28.3	29.1	29.7
	6H	25.6	26.3	26.2	26.8	27.5	29.3	29.9	29.9	30.5	31.2
	8H	25.9	26.5	26.5	27.1	27.8	30.1	30.7	30.7	31.3	32.0

Maximum UGR = 32.8

POLAR GRAPH



Maximum Candela = 1745.392 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)