

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-4-L65-830-HE-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792061012.01  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-23  
[TEST DATE] 12/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 75W-4-L65-830-HE-DIM-UNV  
[LUMINAIRE] 75W WIDE LENS LED STRIP LUMINAIRE  
[LAMP] LED  
[BALLAST] 0-10V DIMMING DRIVER

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4932
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	35.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.08 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10821	9692	9597
55	9370	8297	8425
65	7876	7107	7508
75	6317	6208	7018
85	4633	6107	7415

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1596.058	1596.058	1596.058	1596.058	1596.058
0.5	1588.489	1594.544	1595.553	1595.048	1605.645
1.0	1588.489	1595.048	1595.048	1594.544	1605.141
1.5	1586.975	1595.048	1594.544	1594.039	1605.645
2.0	1586.470	1593.535	1594.544	1593.535	1604.131
2.5	1586.470	1593.535	1593.030	1593.030	1603.122
3.0	1584.956	1592.021	1592.021	1592.021	1602.113
3.5	1583.947	1590.507	1590.507	1591.012	1601.104
4.0	1582.938	1589.498	1589.498	1588.993	1600.095
4.5	1580.415	1587.984	1588.489	1587.984	1598.581
5.0	1578.901	1586.470	1586.470	1586.470	1597.067
5.5	1576.883	1584.452	1584.452	1584.956	1595.048
6.0	1575.874	1581.929	1582.433	1582.433	1593.030
6.5	1572.341	1579.910	1580.415	1580.415	1590.507
7.0	1570.323	1577.387	1577.892	1577.387	1588.489
7.5	1568.305	1574.360	1575.369	1575.369	1585.966
8.0	1565.782	1572.341	1572.341	1572.341	1582.433
8.5	1563.259	1568.809	1569.818	1569.818	1579.406
9.0	1559.222	1566.286	1566.791	1566.286	1575.874
9.5	1556.699	1562.754	1562.754	1562.754	1573.855
10.0	1552.662	1558.717	1558.717	1559.726	1569.818
10.5	1549.130	1555.185	1555.689	1555.689	1566.286
11.0	1545.597	1551.653	1552.157	1551.653	1562.249
11.5	1541.056	1547.616	1548.625	1547.616	1558.717
12.0	1537.019	1543.074	1544.084	1544.084	1554.176
12.5	1532.982	1538.533	1540.047	1539.038	1550.139
13.0	1528.441	1534.496	1535.505	1535.001	1545.597
13.5	1523.900	1529.450	1530.459	1530.459	1541.561
14.0	1518.349	1524.404	1525.413	1525.413	1536.010
14.5	1513.807	1519.358	1520.367	1520.367	1531.973
15.0	1509.266	1514.312	1514.817	1514.817	1525.918
15.5	1503.715	1508.257	1509.771	1509.771	1519.863
16.0	1497.660	1502.706	1504.220	1504.220	1514.817
16.5	1492.614	1496.651	1498.165	1498.669	1509.266
17.0	1485.550	1490.091	1492.110	1492.614	1503.211
17.5	1479.495	1484.036	1486.054	1486.559	1497.156
18.0	1473.944	1477.981	1479.495	1481.008	1491.605
18.5	1467.384	1471.925	1473.439	1474.448	1485.045
19.0	1460.824	1464.356	1466.879	1467.889	1477.981
19.5	1453.255	1458.301	1460.320	1462.338	1471.421
20.0	1445.182	1450.732	1453.255	1454.769	1464.356
20.5	1437.108	1444.172	1446.191	1448.209	1457.797
21.0	1430.548	1436.099	1437.612	1441.649	1450.732
21.5	1422.979	1428.530	1431.053	1433.071	1443.163
22.0	1414.905	1421.465	1423.988	1426.007	1436.603
22.5	1407.841	1412.382	1415.915	1418.942	1429.034
23.0	1399.263	1404.309	1407.841	1410.869	1420.961
23.5	1390.180	1395.730	1400.272	1403.300	1413.392
24.0	1381.097	1387.152	1391.694	1395.226	1405.318
24.5	1373.528	1378.574	1383.620	1386.648	1396.235
25.0	1364.950	1369.996	1375.546	1378.574	1388.161
25.5	1355.362	1361.418	1365.959	1370.500	1378.574
26.0	1346.279	1351.830	1357.885	1361.922	1371.005
26.5	1336.692	1342.243	1349.307	1352.839	1362.427

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**CANDELA TABULATION - (Cont.)**

27.0	1327.105	1332.151	1340.729	1345.270	1353.848
27.5	1316.003	1322.563	1331.141	1335.178	1345.270
28.0	1307.930	1312.976	1321.554	1326.095	1335.683
28.5	1297.333	1303.388	1311.966	1316.508	1326.095
29.0	1287.241	1293.296	1301.874	1307.425	1317.013
29.5	1276.644	1282.700	1291.782	1297.333	1306.920
30.0	1266.048	1272.607	1281.690	1288.755	1298.342
30.5	1254.946	1261.506	1272.103	1279.167	1288.250
31.0	1244.350	1250.910	1261.506	1269.075	1277.654
31.5	1233.248	1240.818	1251.414	1259.488	1268.571
32.0	1222.652	1229.212	1241.322	1248.891	1257.974
32.5	1211.046	1218.110	1230.725	1238.799	1247.882
33.0	1199.945	1207.514	1219.120	1228.707	1237.790
33.5	1189.348	1196.413	1209.028	1217.606	1227.193
34.0	1176.733	1184.807	1197.926	1207.514	1217.606
34.5	1165.127	1173.705	1187.330	1196.413	1206.505
35.0	1154.531	1161.595	1176.733	1186.320	1195.908
35.5	1140.906	1150.494	1165.127	1175.219	1184.807
36.0	1130.310	1138.383	1154.026	1164.118	1174.210
36.5	1117.190	1126.273	1142.420	1153.521	1164.118
37.0	1105.079	1114.667	1130.814	1141.915	1153.521
37.5	1092.464	1102.052	1119.713	1131.823	1141.915
38.0	1079.849	1089.941	1107.602	1120.218	1129.805
38.5	1066.730	1077.326	1095.997	1109.621	1118.704
39.0	1055.124	1064.711	1083.886	1098.015	1109.621
39.5	1042.004	1053.105	1072.280	1086.409	1097.510
40.0	1027.875	1039.986	1060.170	1075.813	1085.905
40.5	1014.756	1027.371	1048.564	1064.711	1074.803
41.0	1002.645	1014.756	1036.454	1053.105	1063.197
41.5	989.525	1002.141	1024.343	1041.500	1052.096
42.0	976.406	989.525	1012.233	1030.398	1040.995
42.5	963.791	976.406	999.618	1018.792	1029.389
43.0	949.662	963.791	988.012	1007.691	1018.288
43.5	937.551	950.671	975.397	996.085	1007.187
44.0	923.927	937.551	962.782	984.984	995.581
44.5	911.312	924.936	950.166	972.874	983.975
45.0	898.192	911.817	938.056	962.277	973.378
45.5	885.073	899.202	925.946	951.176	962.277
46.0	871.953	886.082	912.826	939.065	950.671
46.5	858.833	872.962	901.725	928.973	939.570
47.0	845.209	860.347	889.110	916.863	928.469
47.5	832.090	847.228	876.495	905.257	916.863
48.0	819.474	834.108	863.879	894.660	905.257
48.5	805.346	821.493	852.274	882.550	894.156
49.0	792.731	807.869	839.154	870.944	882.550
49.5	779.611	795.254	827.043	859.843	871.449
50.0	765.987	782.134	814.933	847.732	859.843
50.5	753.372	769.519	802.318	837.640	849.246
51.0	740.252	756.399	791.217	826.034	838.145
51.5	727.637	743.279	778.602	814.933	827.043
52.0	714.013	730.664	766.491	803.327	815.942
52.5	700.893	717.545	754.885	791.721	805.346
53.0	687.269	704.930	742.775	781.629	793.740
53.5	674.149	692.315	731.169	770.023	783.143
54.0	661.534	679.700	719.563	758.922	772.546
54.5	649.423	666.580	707.957	748.830	761.950

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**CANDELA TABULATION - (Cont.)**

55.0	636.808	654.469	696.351	737.224	752.362
55.5	626.212	641.854	684.746	726.628	740.756
56.0	614.101	630.753	673.644	716.031	730.160
56.5	601.486	619.147	662.038	705.434	720.068
57.0	589.376	607.541	650.937	694.838	709.471
57.5	576.761	595.431	641.350	684.746	697.865
58.0	564.146	583.320	630.249	673.644	689.287
58.5	552.035	571.210	619.147	664.057	679.195
59.0	539.925	559.100	608.551	655.479	668.598
59.5	527.814	547.494	598.963	644.882	660.525
60.0	515.704	535.383	588.367	634.790	650.433
60.5	503.846	523.777	577.770	625.202	640.341
61.0	491.937	512.172	567.173	615.615	630.753
61.5	480.129	500.667	556.577	606.028	621.670
62.0	468.523	489.263	546.484	596.945	612.083
62.5	457.069	477.959	535.888	587.862	603.000
63.0	445.463	466.707	525.796	578.274	594.926
63.5	433.958	455.606	516.208	569.192	585.843
64.0	422.756	444.656	506.116	559.604	576.761
64.5	411.604	433.958	496.529	550.521	567.678
65.0	400.553	423.210	486.891	541.438	559.100
65.5	389.654	412.714	477.354	532.356	550.017
66.0	378.603	402.219	467.918	523.273	541.438
66.5	367.805	391.975	458.532	514.695	532.860
67.0	357.259	381.833	449.197	505.612	524.282
67.5	346.662	371.842	440.064	497.134	515.704
68.0	336.217	362.103	430.981	488.556	507.630
68.5	325.923	352.414	422.100	480.230	499.203
69.0	315.679	342.827	413.320	471.854	491.231
69.5	305.587	333.441	404.641	463.730	483.308
70.0	295.546	324.207	396.113	455.757	475.436
70.5	285.756	315.074	387.585	447.784	467.666
71.0	276.068	306.041	379.209	439.912	459.996
71.5	266.481	297.211	371.034	432.242	452.427
72.0	257.095	288.330	362.860	424.623	445.059
72.5	247.659	279.752	354.887	417.155	437.743
73.0	238.475	271.224	346.965	409.788	430.375
73.5	229.544	262.797	339.295	402.471	423.210
74.0	220.713	254.622	331.524	395.407	415.994
74.5	212.034	246.397	324.106	388.393	409.182
75.0	203.405	238.374	316.739	381.530	402.572
75.5	194.928	230.553	309.473	374.718	395.861
76.0	186.703	222.883	302.408	367.956	389.301
76.5	178.528	215.314	295.394	361.346	382.741
77.0	170.455	207.795	288.481	354.786	376.383
77.5	162.532	200.479	281.669	348.428	370.075
78.0	154.711	193.313	275.059	342.171	363.869
78.5	147.041	186.249	268.499	335.863	357.713
79.0	139.523	179.386	262.141	329.758	351.657
79.5	132.054	172.574	255.884	323.803	345.602
80.0	124.687	165.863	249.627	317.900	339.850
80.5	117.522	159.353	243.572	311.945	333.996
81.0	110.558	152.945	237.769	306.193	328.294
81.5	103.494	146.688	231.966	300.491	322.592
82.0	96.682	140.582	226.314	294.991	317.092
82.5	90.021	134.577	220.764	289.490	311.693

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**CANDELA TABULATION - (Cont.)**

83.0	83.461	128.724	215.314	284.192	306.445
83.5	76.952	123.022	210.116	278.793	300.995
84.0	70.594	117.471	205.070	273.696	295.798
84.5	64.286	112.123	200.125	268.650	290.701
85.0	58.231	106.925	195.281	263.655	285.605
85.5	52.176	101.980	190.538	258.811	280.660
86.0	46.222	97.237	185.896	254.067	275.765
86.5	40.318	92.796	181.506	249.324	270.871
87.0	34.515	88.507	177.065	244.833	266.077
87.5	28.712	84.521	172.877	240.292	261.485
88.0	22.959	80.635	168.739	235.902	256.843
88.5	17.156	77.002	164.753	231.562	252.352
89.0	11.858	73.571	160.968	227.374	247.911
89.5	7.519	70.392	157.285	223.337	243.572
90.0	4.491	67.566	153.904	219.502	239.585
90.5	3.179	65.094	150.775	215.667	235.347
91.0	3.381	62.823	147.596	211.782	231.310
91.5	4.037	60.653	144.417	208.098	227.273
92.0	4.794	58.837	141.390	204.364	223.337
92.5	5.601	57.272	138.816	200.781	219.452
93.0	6.408	55.910	136.142	197.400	215.718
93.5	7.266	54.850	133.619	194.070	212.185
94.0	8.175	53.942	131.247	190.942	208.754
94.5	9.032	53.286	129.027	187.763	205.222
95.0	9.890	52.781	126.958	184.634	201.841
95.5	10.698	52.428	125.040	181.657	198.511
96.0	11.354	52.277	123.375	178.781	195.231
96.5	12.010	52.277	121.710	176.106	192.203
97.0	12.615	52.327	120.196	173.533	189.175
97.5	13.271	52.529	118.783	171.060	186.400
98.0	13.826	52.731	117.522	168.638	183.574
98.5	14.482	52.983	116.462	166.317	180.950
99.0	15.138	53.286	115.352	164.147	178.377
99.5	15.845	53.639	114.393	162.078	175.854
100.0	16.450	53.992	113.636	160.161	173.583
100.5	17.156	54.396	112.880	158.294	171.262
101.0	17.762	54.800	112.325	156.528	169.193
101.5	18.368	55.204	111.769	154.863	167.074
102.0	18.923	55.607	111.366	153.298	165.207
102.5	19.478	56.011	110.962	151.835	163.340
103.0	20.033	56.465	110.659	150.372	161.675
103.5	20.638	56.919	110.407	149.110	159.959
104.0	21.294	57.323	110.155	147.949	158.395
104.5	21.950	57.777	110.003	146.839	156.931
105.0	22.556	58.231	109.852	145.830	155.518
105.5	23.111	58.635	109.701	144.770	154.307
106.0	23.767	59.139	109.650	143.862	153.096
106.5	24.372	59.594	109.650	143.004	151.885
107.0	24.978	60.098	109.650	142.197	150.876
107.5	25.533	60.502	109.650	141.591	149.816
108.0	26.239	61.006	109.650	140.885	148.757
108.5	26.895	61.511	109.701	140.380	148.050
109.0	27.551	61.915	109.802	139.724	147.344
109.5	28.258	62.369	109.852	139.270	146.587
110.0	28.964	62.823	109.953	138.766	145.982
110.5	29.671	63.277	110.054	138.312	145.426

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**CANDELA TABULATION - (Cont.)**

111.0	30.377	63.731	110.104	137.908	144.821
111.5	31.084	64.135	110.155	137.605	144.316
112.0	31.840	64.589	110.256	137.302	143.711
112.5	32.597	65.043	110.357	136.949	143.156
113.0	33.405	65.497	110.508	136.697	142.903
113.5	34.162	65.901	110.508	136.445	142.550
114.0	34.969	66.305	110.609	136.243	142.197
114.5	35.726	66.759	110.710	135.990	141.894
115.0	36.533	67.112	110.811	135.839	141.642
115.5	37.341	67.566	110.811	135.688	141.390
116.0	38.097	67.970	110.962	135.486	141.087
116.5	38.804	68.374	111.063	135.284	140.986
117.0	39.611	68.828	111.164	135.284	140.734
117.5	40.368	69.181	111.265	135.082	140.582
118.0	41.024	69.534	111.366	134.981	140.380
118.5	41.781	69.887	111.416	134.830	140.330
119.0	42.437	70.241	111.517	134.678	140.027
119.5	43.144	70.493	111.618	134.527	139.977
120.0	43.799	70.745	111.568	134.426	139.724
120.5	44.455	71.048	111.618	134.224	139.674
121.0	45.111	71.250	111.719	134.073	139.472
121.5	45.818	71.502	111.669	133.871	139.371
122.0	46.474	71.805	111.669	133.770	139.220
122.5	47.130	72.108	111.719	133.568	138.867
123.0	47.786	72.410	111.669	133.366	138.816
123.5	48.391	72.663	111.568	133.215	138.513
124.0	48.896	72.865	111.568	133.064	138.463
124.5	49.401	73.066	111.568	132.811	138.261
125.0	49.905	73.319	111.467	132.559	138.059
125.5	50.410	73.470	111.366	132.408	137.807
126.0	50.864	73.672	111.315	132.105	137.605
126.5	51.268	73.924	111.214	131.903	137.454
127.0	51.722	74.025	111.113	131.651	137.252
127.5	52.075	74.177	110.962	131.398	136.899
128.0	52.529	74.177	110.912	131.096	136.697
128.5	52.882	74.277	110.710	130.843	136.495
129.0	53.236	74.378	110.508	130.591	136.243
129.5	53.538	74.530	110.155	130.187	135.940
130.0	53.791	74.631	109.802	129.935	135.637
130.5	54.043	74.732	109.398	129.632	135.284
131.0	54.194	74.883	108.994	129.178	134.931
131.5	54.396	75.034	108.590	128.775	134.577
132.0	54.598	75.186	108.136	128.522	134.275
132.5	54.699	75.236	107.632	128.018	133.821
133.0	54.850	75.287	107.430	127.564	133.266
133.5	54.901	75.236	107.127	127.210	133.013
134.0	54.951	75.135	106.925	126.807	132.660
134.5	55.103	74.933	106.673	126.352	132.004
135.0	55.254	74.782	106.370	125.747	131.499
135.5	55.204	74.378	106.118	125.343	131.096
136.0	55.304	74.328	105.765	124.839	130.591
136.5	55.405	74.177	105.512	124.284	130.087
137.0	55.456	73.924	105.109	123.829	129.531
137.5	55.506	73.672	104.755	123.224	129.027
138.0	55.607	73.521	104.251	122.719	128.421
138.5	55.607	73.319	103.595	122.164	127.967

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

139.0	55.557	73.167	102.838	121.508	127.261
139.5	55.557	72.966	101.930	120.802	126.756
140.0	55.557	72.713	100.920	120.146	126.050
140.5	55.557	72.562	100.012	119.338	125.293
141.0	55.557	72.461	99.003	118.481	124.687
141.5	55.557	72.259	97.994	117.724	124.082
142.0	55.506	72.158	97.035	116.765	123.426
142.5	55.456	72.007	96.026	115.907	122.669
143.0	55.405	71.855	95.067	115.100	121.912
143.5	55.405	71.654	93.957	114.242	121.206
144.0	55.405	71.401	92.998	113.586	120.398
144.5	55.557	71.199	92.039	112.829	119.692
145.0	55.759	70.998	90.980	112.173	118.884
145.5	56.112	70.745	90.021	111.517	118.077
146.0	56.566	70.543	89.113	110.811	117.320
146.5	57.020	70.342	88.356	110.054	116.462
147.0	57.474	70.089	87.498	109.297	115.604
147.5	57.878	69.988	86.842	108.540	114.747
148.0	58.332	69.787	86.136	107.682	113.838
148.5	58.736	69.736	85.581	106.875	112.930
149.0	59.240	69.736	84.975	106.067	112.123
149.5	59.594	69.887	84.420	105.210	111.113
150.0	59.997	69.988	83.865	104.402	110.054
150.5	60.350	70.039	83.259	103.494	108.944
151.0	60.603	70.190	82.452	102.586	107.632
151.5	60.855	70.241	81.594	101.627	106.421
152.0	61.158	70.342	80.787	100.618	105.210
152.5	61.461	70.443	80.030	99.558	103.898
153.0	61.662	70.493	79.223	98.347	102.838
153.5	61.915	70.644	78.365	97.086	101.627
154.0	62.117	70.594	77.608	95.673	100.618
154.5	62.369	70.644	76.952	94.310	99.609
155.0	62.470	70.745	76.296	92.746	98.852
155.5	62.672	70.796	75.640	91.283	98.044
156.0	62.823	70.796	75.186	89.718	97.338
156.5	63.075	70.796	74.732	88.154	96.430
157.0	63.176	70.897	74.277	86.741	95.572
157.5	63.328	70.897	73.975	85.379	94.613
158.0	63.529	70.846	73.823	83.966	93.705
158.5	63.580	70.846	73.622	82.805	92.645
159.0	63.832	70.695	73.470	81.695	91.737
159.5	64.034	70.594	73.218	80.635	90.728
160.0	64.286	70.493	72.966	79.778	89.718
160.5	64.589	70.443	72.764	78.970	88.760
161.0	64.791	70.291	72.713	78.112	87.801
161.5	65.094	70.241	72.612	77.255	87.094
162.0	65.346	70.140	72.764	76.548	86.489
162.5	65.598	70.140	72.865	75.791	85.782
163.0	65.901	70.089	72.915	74.984	85.177
163.5	66.153	70.089	73.016	74.126	84.420
164.0	66.254	70.089	73.117	73.066	83.714
164.5	66.406	69.988	73.016	72.259	82.805
165.0	66.557	69.988	72.865	71.452	81.897
165.5	66.708	69.938	72.713	70.897	80.938
166.0	66.860	69.887	72.612	70.291	79.475
166.5	67.011	69.887	72.461	69.787	78.768

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

167.0	67.213	69.887	72.310	69.332	78.213
167.5	67.314	69.887	72.007	68.929	77.658
168.0	67.465	69.887	71.754	68.525	77.204
168.5	67.768	69.686	71.401	68.172	76.649
169.0	67.919	69.736	71.149	67.819	76.094
169.5	68.172	69.585	70.745	67.415	75.489
170.0	68.273	69.534	70.392	66.910	74.933
170.5	68.424	69.433	69.938	66.355	74.328
171.0	68.525	69.332	69.433	65.750	73.571
171.5	68.676	69.332	68.979	65.195	72.966
172.0	68.929	69.231	68.727	64.640	72.057
172.5	69.080	69.231	68.424	64.034	71.048
173.0	69.282	69.131	68.172	63.479	69.332
173.5	69.534	69.181	68.071	62.924	66.759
174.0	69.736	69.181	68.020	62.470	63.580
174.5	69.887	69.181	67.919	62.016	59.795
175.0	70.190	69.332	67.869	61.662	55.506
175.5	70.291	69.383	67.819	61.511	51.015
176.0	70.493	69.484	67.819	61.360	48.089
176.5	70.543	69.534	67.768	61.360	46.020
177.0	70.745	69.635	67.667	61.208	43.900
177.5	70.796	69.635	67.516	61.158	43.446
178.0	70.998	69.736	67.465	61.107	43.547
178.5	71.098	69.787	67.516	61.006	43.648
179.0	71.199	69.787	67.465	60.855	43.699
179.5	71.300	69.787	67.415	60.805	43.749
180.0	63.933	63.933	63.933	63.933	63.933



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L65-830-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	577.71	N.A.	11.70
0-30	1210.49	N.A.	24.50
0-40	1944.48	N.A.	39.40
0-60	3290.79	N.A.	66.70
0-80	4099.73	N.A.	83.10
0-90	4303.18	N.A.	87.30
10-90	4152.57	N.A.	84.20
20-40	1366.78	N.A.	27.70
20-50	2089.58	N.A.	42.40
40-70	1825.88	N.A.	37.00
60-80	808.95	N.A.	16.40
70-80	329.37	N.A.	6.70
80-90	203.45	N.A.	4.10
90-110	237.63	N.A.	4.80
90-120	337.67	N.A.	6.80
90-130	429.74	N.A.	8.70
90-150	564.17	N.A.	11.40
90-180	628.43	N.A.	12.70
110-180	390.80	N.A.	7.90
0-180	4931.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.61
10-20	427.10
20-30	632.78
30-40	733.99
40-50	722.80
50-60	623.50
60-70	479.57
70-80	329.37
80-90	203.45
90-100	130.35
100-110	107.28
110-120	100.04
120-130	92.07
130-140	77.37
140-150	57.06
150-160	37.31
160-170	20.55
170-180	6.40

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L65-830-HE-DIM-UNV\_.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	105	100	95	91	101	96	92	89	90	86	83	84	81	79	78	76	74	71
2	95	87	80	74	92	84	78	72	78	73	69	73	69	65	68	65	62	59
3	87	76	68	62	83	74	66	60	69	63	58	65	60	55	61	56	53	50
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43
5	73	61	52	45	70	59	51	44	55	48	43	52	46	41	49	44	40	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33
7	63	50	41	35	60	48	40	34	46	38	33	43	37	32	41	35	31	29
8	59	45	37	31	56	44	36	31	42	35	30	40	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	35	29	25	23
10	51	38	31	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L65-830-HE-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

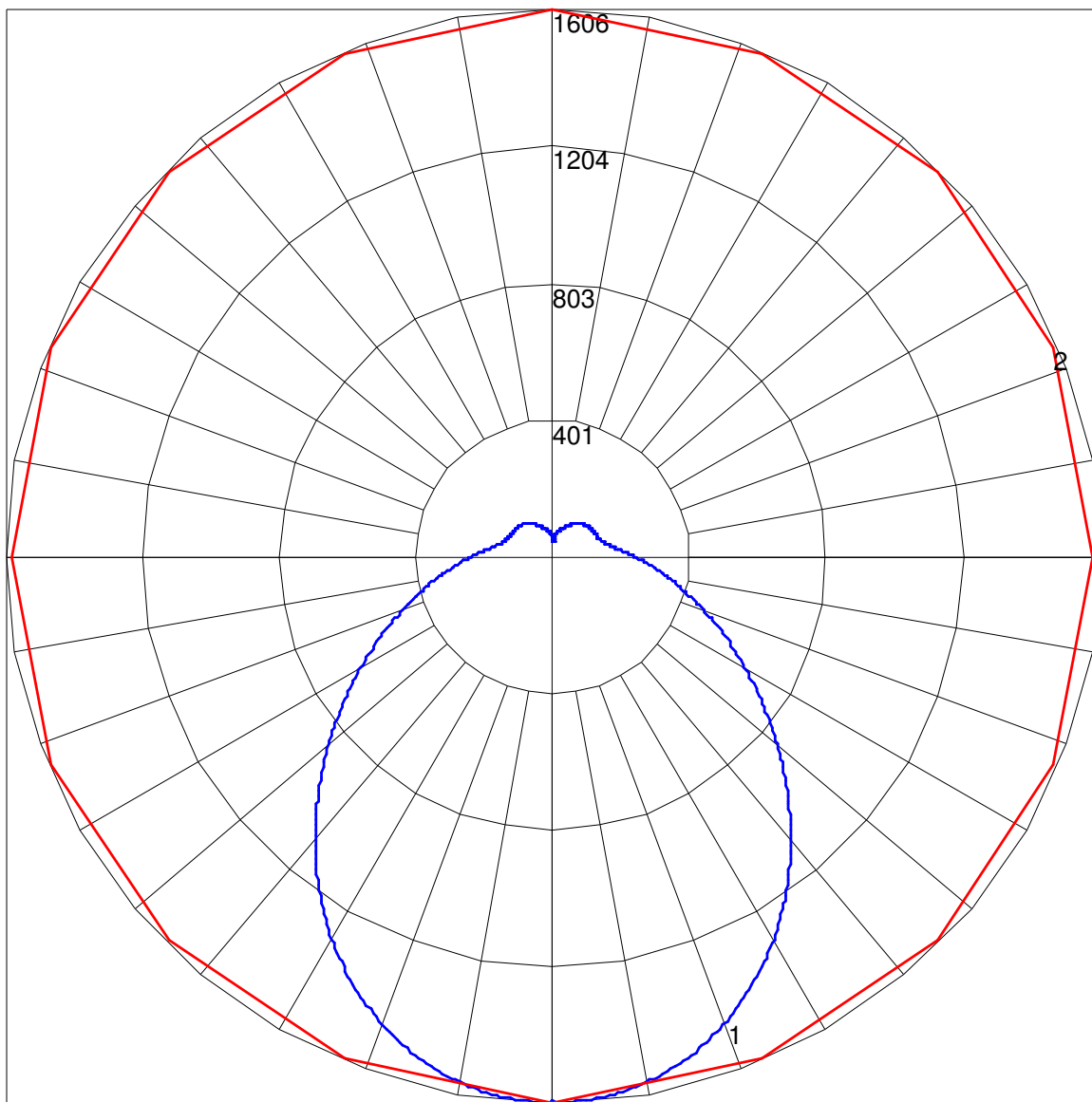
Reflectances

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	17.3	18.7	17.9	19.2	19.8	19.0	20.3	19.5	20.9	21.5
	3H	18.7	19.9	19.2	20.5	21.1	21.2	22.4	21.7	23.0	23.6
	4H	19.1	20.3	19.7	20.9	21.5	22.2	23.4	22.8	24.0	24.7
	6H	19.4	20.5	20.0	21.1	21.8	23.4	24.4	24.0	25.0	25.7
	8H	19.5	20.5	20.1	21.1	21.8	23.9	25.0	24.6	25.6	26.3
	12H	19.5	20.5	20.1	21.1	21.8	24.6	25.6	25.2	26.2	26.9
4H	2H	18.0	19.2	18.6	19.8	20.5	19.4	20.5	20.0	21.1	21.8
	3H	19.6	20.6	20.2	21.2	21.9	21.8	22.8	22.4	23.4	24.1
	4H	20.2	21.1	20.8	21.7	22.5	23.1	23.9	23.7	24.6	25.3
	6H	20.6	21.4	21.3	22.1	22.8	24.4	25.2	25.0	25.8	26.6
	8H	20.7	21.5	21.4	22.1	22.9	25.1	25.8	25.7	26.5	27.2
	12H	20.8	21.5	21.5	22.2	22.9	25.9	26.5	26.5	27.2	28.0
8H	4H	20.8	21.5	21.4	22.2	22.9	23.2	24.0	23.9	24.6	25.4
	6H	21.4	22.0	22.0	22.7	23.4	24.7	25.4	25.4	26.1	26.8
	8H	21.6	22.1	22.2	22.8	23.6	25.6	26.2	26.3	26.9	27.6
	12H	21.7	22.2	22.4	22.9	23.7	26.6	27.1	27.3	27.8	28.6
12H	4H	20.9	21.6	21.6	22.3	23.0	23.2	23.9	23.9	24.6	25.4
	6H	21.6	22.2	22.3	22.9	23.7	24.8	25.4	25.5	26.0	26.8
	8H	21.9	22.4	22.6	23.1	23.9	25.7	26.2	26.4	26.9	27.7

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 1605.645 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)