

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-4-L50-830-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-L50-830-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	4811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	180
Total Luminaire Watts	26.7
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	10555	9454	9361
55	9140	8094	8218
65	7683	6932	7324
75	6162	6056	6846
85	4520	5957	7233

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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	1556.874	1556.874	1556.874	1556.874	1556.874
0.5	1549.491	1555.397	1556.382	1555.889	1566.226
1.0	1549.491	1555.889	1555.889	1555.397	1565.734
1.5	1548.014	1555.889	1555.397	1554.905	1566.226
2.0	1547.522	1554.413	1555.397	1554.413	1564.749
2.5	1547.522	1554.413	1553.921	1553.921	1563.765
3.0	1546.045	1552.936	1552.936	1552.936	1562.780
3.5	1545.061	1551.459	1551.459	1551.952	1561.796
4.0	1544.076	1550.475	1550.475	1549.983	1560.812
4.5	1541.615	1548.998	1549.491	1548.998	1559.335
5.0	1540.139	1547.522	1547.522	1547.522	1557.858
5.5	1538.170	1545.553	1545.553	1546.045	1555.889
6.0	1537.185	1543.092	1543.584	1543.584	1553.921
6.5	1533.740	1541.123	1541.615	1541.615	1551.459
7.0	1531.771	1538.662	1539.154	1538.662	1549.491
7.5	1529.802	1535.709	1536.693	1536.693	1547.030
8.0	1527.341	1533.740	1533.740	1533.740	1543.584
8.5	1524.880	1530.294	1531.279	1531.279	1540.631
9.0	1520.942	1527.833	1528.325	1527.833	1537.185
9.5	1518.481	1524.388	1524.388	1524.388	1535.216
10.0	1514.543	1520.450	1520.450	1521.434	1531.279
10.5	1511.098	1517.004	1517.497	1517.497	1527.833
11.0	1507.652	1513.559	1514.051	1513.559	1523.895
11.5	1503.222	1509.621	1510.606	1509.621	1520.450
12.0	1499.285	1505.191	1506.176	1506.176	1516.020
12.5	1495.347	1500.761	1502.238	1501.254	1512.082
13.0	1490.917	1496.824	1497.808	1497.316	1507.652
13.5	1486.487	1491.902	1492.886	1492.886	1503.715
14.0	1481.073	1486.979	1487.964	1487.964	1498.300
14.5	1476.643	1482.057	1483.042	1483.042	1494.363
15.0	1472.213	1477.135	1477.627	1477.627	1488.456
15.5	1466.799	1471.229	1472.705	1472.705	1482.549
16.0	1460.892	1465.814	1467.291	1467.291	1477.627
16.5	1455.970	1459.908	1461.384	1461.876	1472.213
17.0	1449.079	1453.509	1455.478	1455.970	1466.306
17.5	1443.172	1447.602	1449.571	1450.063	1460.400
18.0	1437.758	1441.696	1443.172	1444.649	1454.985
18.5	1431.359	1435.789	1437.266	1438.250	1448.587
19.0	1424.960	1428.406	1430.867	1431.851	1441.696
19.5	1417.577	1422.499	1424.468	1426.437	1435.297
20.0	1409.702	1415.116	1417.577	1419.054	1428.406
20.5	1401.826	1408.717	1410.686	1412.655	1422.007
21.0	1395.428	1400.842	1402.319	1406.256	1415.116
21.5	1388.044	1393.459	1395.920	1397.889	1407.733
22.0	1380.169	1386.568	1389.029	1390.998	1401.334
22.5	1373.278	1377.708	1381.153	1384.107	1393.951
23.0	1364.910	1369.832	1373.278	1376.231	1386.075
23.5	1356.050	1361.465	1365.895	1368.848	1378.692
24.0	1347.191	1353.097	1357.527	1360.973	1370.817
24.5	1339.807	1344.729	1349.652	1352.605	1361.957
25.0	1331.440	1336.362	1341.776	1344.729	1354.082
25.5	1322.088	1327.994	1332.424	1336.854	1344.729
26.0	1313.228	1318.642	1324.549	1328.486	1337.346
26.5	1303.876	1309.290	1316.181	1319.627	1328.979

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**CANDELA TABULATION - (Cont.)**

27.0	1294.524	1299.446	1307.813	1312.243	1320.611
27.5	1283.695	1290.094	1298.461	1302.399	1312.243
28.0	1275.819	1280.742	1289.109	1293.539	1302.891
28.5	1265.483	1271.390	1279.757	1284.187	1293.539
29.0	1255.639	1261.545	1269.913	1275.327	1284.679
29.5	1245.302	1251.209	1260.069	1265.483	1274.835
30.0	1234.966	1241.364	1250.224	1257.115	1266.467
30.5	1224.137	1230.536	1240.872	1247.763	1256.623
31.0	1213.800	1220.199	1230.536	1237.919	1246.287
31.5	1202.972	1210.355	1220.691	1228.567	1237.427
32.0	1192.635	1199.034	1210.847	1218.230	1227.090
32.5	1181.314	1188.205	1200.511	1208.386	1217.246
33.0	1170.486	1177.869	1189.190	1198.542	1207.402
33.5	1160.149	1167.040	1179.345	1187.713	1197.065
34.0	1147.844	1155.719	1168.517	1177.869	1187.713
34.5	1136.523	1144.890	1158.180	1167.040	1176.884
35.0	1126.186	1133.077	1147.844	1157.196	1166.548
35.5	1112.897	1122.249	1136.523	1146.367	1155.719
36.0	1102.560	1110.435	1125.694	1135.538	1145.383
36.5	1089.762	1098.622	1114.373	1125.202	1135.538
37.0	1077.949	1087.301	1103.052	1113.881	1125.202
37.5	1065.644	1074.996	1092.224	1104.037	1113.881
38.0	1053.339	1063.183	1080.410	1092.716	1102.068
38.5	1040.541	1050.878	1069.089	1082.379	1091.239
39.0	1029.220	1038.572	1057.276	1071.058	1082.379
39.5	1016.423	1027.251	1045.955	1059.737	1070.566
40.0	1002.641	1014.454	1034.142	1049.401	1059.245
40.5	989.843	1002.148	1022.821	1038.572	1048.416
41.0	978.030	989.843	1011.008	1027.251	1037.096
41.5	965.232	977.538	999.195	1015.930	1026.267
42.0	952.435	965.232	987.382	1005.102	1015.438
42.5	940.129	952.435	975.077	993.781	1004.117
43.0	926.347	940.129	963.756	982.952	993.288
43.5	914.534	927.332	951.450	971.631	982.460
44.0	901.244	914.534	939.145	960.802	971.139
44.5	888.939	902.229	926.840	948.989	959.818
45.0	876.141	889.431	915.026	938.653	949.481
45.5	863.344	877.126	903.213	927.824	938.653
46.0	850.546	864.328	890.416	916.011	927.332
46.5	837.749	851.531	879.587	906.167	916.503
47.0	824.459	839.225	867.282	894.353	905.674
47.5	811.661	826.428	854.976	883.032	894.353
48.0	799.356	813.630	842.671	872.696	883.032
48.5	785.574	801.325	831.350	860.883	872.204
49.0	773.269	788.035	818.552	849.562	860.883
49.5	760.471	775.730	806.739	838.733	850.054
50.0	747.181	762.932	794.926	826.920	838.733
50.5	734.876	750.627	782.621	817.076	828.397
51.0	722.078	737.829	771.792	805.755	817.568
51.5	709.773	725.032	759.487	794.926	806.739
52.0	696.483	712.726	747.674	783.605	795.911
52.5	683.686	699.929	736.353	772.284	785.574
53.0	670.396	687.623	724.539	762.440	774.253
53.5	657.598	675.318	713.219	751.119	763.917
54.0	645.293	663.013	701.898	740.290	753.580
54.5	633.480	650.215	690.577	730.446	743.244

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**CANDELA TABULATION - (Cont.)**

55.0	621.174	638.402	679.256	719.125	733.892
55.5	610.838	626.097	667.935	708.789	722.571
56.0	599.025	615.268	657.106	698.452	712.234
56.5	586.719	603.947	645.785	688.116	702.390
57.0	574.906	592.626	634.956	677.779	692.053
57.5	562.601	580.813	625.604	667.935	680.732
58.0	550.296	569.000	614.776	657.106	672.365
58.5	538.482	557.187	603.947	647.754	662.520
59.0	526.669	545.373	593.610	639.386	652.184
59.5	514.856	534.053	584.258	629.050	644.309
60.0	503.043	522.239	573.922	619.206	634.464
60.5	491.476	510.918	563.585	609.854	624.620
61.0	479.860	499.598	553.249	600.501	615.268
61.5	468.342	488.375	542.912	591.149	606.408
62.0	457.021	477.251	533.068	582.290	597.056
62.5	445.848	466.225	522.732	573.430	588.196
63.0	434.527	455.249	512.887	564.078	580.321
63.5	423.304	444.420	503.535	555.218	571.461
64.0	412.377	433.739	493.691	545.866	562.601
64.5	401.499	423.304	484.339	537.006	553.741
65.0	390.720	412.820	474.938	528.146	545.373
65.5	380.088	402.582	465.635	519.286	536.514
66.0	369.308	392.344	456.430	510.426	528.146
66.5	358.775	382.352	447.275	502.059	519.778
67.0	348.488	372.459	438.169	493.199	511.411
67.5	338.151	362.713	429.260	484.930	503.043
68.0	327.962	353.213	420.400	476.562	495.168
68.5	317.921	343.762	411.737	468.440	486.948
69.0	307.929	334.410	403.173	460.270	479.171
69.5	298.085	325.255	394.707	452.345	471.443
70.0	288.290	316.248	386.388	444.568	463.764
70.5	278.741	307.339	378.070	436.791	456.184
71.0	269.290	298.528	369.899	429.112	448.703
71.5	259.938	289.914	361.925	421.631	441.319
72.0	250.783	281.251	353.951	414.198	434.133
72.5	241.579	272.884	346.174	406.914	426.996
73.0	232.620	264.565	338.447	399.727	419.810
73.5	223.908	256.345	330.965	392.590	412.820
74.0	215.295	248.371	323.385	385.699	405.781
74.5	206.828	240.348	316.149	378.857	399.137
75.0	198.412	232.522	308.963	372.163	392.689
75.5	190.142	224.893	301.875	365.518	386.142
76.0	182.119	217.411	294.984	358.923	379.743
76.5	174.145	210.028	288.142	352.475	373.345
77.0	166.270	202.694	281.399	346.076	367.143
77.5	158.542	195.557	274.754	339.874	360.990
78.0	150.913	188.567	268.306	333.771	354.936
78.5	143.431	181.676	261.907	327.618	348.931
79.0	136.097	174.982	255.705	321.662	343.024
79.5	128.812	168.337	249.602	315.854	337.118
80.0	121.626	161.791	243.498	310.095	331.506
80.5	114.637	155.441	237.592	304.287	325.797
81.0	107.844	149.190	231.931	298.676	320.235
81.5	100.953	143.087	226.271	293.114	314.673
82.0	94.308	137.131	220.758	287.748	309.307
82.5	87.811	131.274	215.344	282.383	304.041

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**CANDELA TABULATION - (Cont.)**

83.0	81.412	125.564	210.028	277.215	298.922
83.5	75.063	120.002	204.958	271.948	293.606
84.0	68.861	114.587	200.036	266.977	288.536
84.5	62.708	109.370	195.212	262.055	283.565
85.0	56.802	104.300	190.487	257.182	278.593
85.5	50.895	99.477	185.860	252.457	273.770
86.0	45.087	94.850	181.332	247.830	268.995
86.5	39.328	90.518	177.049	243.203	264.221
87.0	33.667	86.334	172.718	238.822	259.545
87.5	28.007	82.446	168.633	234.392	255.065
88.0	22.396	78.656	164.596	230.110	250.537
88.5	16.735	75.112	160.708	225.877	246.156
89.0	11.567	71.765	157.016	221.792	241.825
89.5	7.334	68.664	153.423	217.854	237.592
90.0	4.381	65.907	150.125	214.113	233.703
90.5	3.101	63.496	147.074	210.372	229.569
91.0	3.298	61.281	143.973	206.582	225.631
91.5	3.938	59.164	140.872	202.989	221.693
92.0	4.676	57.392	137.918	199.347	217.854
92.5	5.464	55.866	135.408	195.852	214.064
93.0	6.251	54.537	132.799	192.554	210.422
93.5	7.088	53.504	130.338	189.306	206.976
94.0	7.974	52.618	128.025	186.254	203.629
94.5	8.811	51.978	125.859	183.153	200.184
95.0	9.647	51.486	123.841	180.101	196.886
95.5	10.435	51.141	121.971	177.197	193.637
96.0	11.075	50.993	120.346	174.392	190.438
96.5	11.715	50.993	118.722	171.783	187.484
97.0	12.305	51.043	117.245	169.272	184.531
97.5	12.945	51.240	115.867	166.861	181.824
98.0	13.487	51.436	114.637	164.498	179.068
98.5	14.127	51.683	113.603	162.234	176.508
99.0	14.766	51.978	112.520	160.117	173.998
99.5	15.456	52.322	111.585	158.099	171.537
100.0	16.046	52.667	110.847	156.229	169.322
100.5	16.735	53.061	110.108	154.408	167.058
101.0	17.326	53.454	109.567	152.685	165.039
101.5	17.917	53.848	109.025	151.061	162.972
102.0	18.458	54.242	108.632	149.535	161.151
102.5	18.999	54.636	108.238	148.107	159.330
103.0	19.541	55.079	107.943	146.680	157.705
103.5	20.132	55.522	107.696	145.449	156.032
104.0	20.771	55.916	107.450	144.317	154.506
104.5	21.411	56.359	107.303	143.234	153.079
105.0	22.002	56.802	107.155	142.250	151.700
105.5	22.543	57.195	107.007	141.216	150.519
106.0	23.183	57.688	106.958	140.330	149.338
106.5	23.774	58.131	106.958	139.494	148.157
107.0	24.365	58.623	106.958	138.706	147.172
107.5	24.906	59.016	106.958	138.115	146.138
108.0	25.595	59.509	106.958	137.426	145.105
108.5	26.235	60.001	107.007	136.934	144.416
109.0	26.875	60.395	107.106	136.294	143.727
109.5	27.564	60.838	107.155	135.851	142.988
110.0	28.253	61.281	107.253	135.359	142.398
110.5	28.942	61.724	107.352	134.916	141.856

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**CANDELA TABULATION - (Cont.)**

111.0	29.631	62.167	107.401	134.522	141.266
111.5	30.320	62.560	107.450	134.227	140.773
112.0	31.059	63.003	107.549	133.932	140.183
112.5	31.797	63.446	107.647	133.587	139.641
113.0	32.585	63.889	107.795	133.341	139.395
113.5	33.323	64.283	107.795	133.095	139.051
114.0	34.110	64.677	107.893	132.898	138.706
114.5	34.849	65.120	107.992	132.652	138.411
115.0	35.636	65.465	108.090	132.504	138.165
115.5	36.424	65.907	108.090	132.356	137.918
116.0	37.162	66.301	108.238	132.160	137.623
116.5	37.851	66.695	108.336	131.963	137.525
117.0	38.639	67.138	108.435	131.963	137.279
117.5	39.377	67.483	108.533	131.766	137.131
118.0	40.017	67.827	108.632	131.667	136.934
118.5	40.755	68.172	108.681	131.520	136.885
119.0	41.395	68.516	108.779	131.372	136.589
119.5	42.084	68.762	108.878	131.224	136.540
120.0	42.724	69.008	108.829	131.126	136.294
120.5	43.364	69.304	108.878	130.929	136.245
121.0	44.004	69.501	108.976	130.781	136.048
121.5	44.693	69.747	108.927	130.584	135.950
122.0	45.333	70.042	108.927	130.486	135.802
122.5	45.973	70.337	108.976	130.289	135.457
123.0	46.613	70.633	108.927	130.092	135.408
123.5	47.203	70.879	108.829	129.945	135.113
124.0	47.696	71.076	108.829	129.797	135.064
124.5	48.188	71.273	108.829	129.551	134.867
125.0	48.680	71.519	108.730	129.305	134.670
125.5	49.172	71.666	108.632	129.157	134.424
126.0	49.615	71.863	108.582	128.862	134.227
126.5	50.009	72.109	108.484	128.665	134.079
127.0	50.452	72.208	108.386	128.419	133.882
127.5	50.797	72.356	108.238	128.173	133.538
128.0	51.240	72.356	108.189	127.877	133.341
128.5	51.584	72.454	107.992	127.631	133.144
129.0	51.929	72.552	107.795	127.385	132.898
129.5	52.224	72.700	107.450	126.991	132.603
130.0	52.470	72.798	107.106	126.745	132.307
130.5	52.716	72.897	106.712	126.450	131.963
131.0	52.864	73.045	106.318	126.007	131.618
131.5	53.061	73.192	105.925	125.613	131.274
132.0	53.258	73.340	105.482	125.367	130.978
132.5	53.356	73.389	104.989	124.875	130.535
133.0	53.504	73.438	104.792	124.432	129.994
133.5	53.553	73.389	104.497	124.087	129.748
134.0	53.602	73.291	104.300	123.693	129.403
134.5	53.750	73.094	104.054	123.250	128.763
135.0	53.897	72.946	103.759	122.660	128.271
135.5	53.848	72.552	103.513	122.266	127.877
136.0	53.947	72.503	103.168	121.774	127.385
136.5	54.045	72.356	102.922	121.232	126.893
137.0	54.094	72.109	102.528	120.789	126.351
137.5	54.144	71.863	102.184	120.199	125.859
138.0	54.242	71.716	101.691	119.707	125.269
138.5	54.242	71.519	101.052	119.165	124.826

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

139.0	54.193	71.371	100.313	118.525	124.136
139.5	54.193	71.174	99.427	117.836	123.644
140.0	54.193	70.928	98.443	117.196	122.955
140.5	54.193	70.780	97.557	116.409	122.217
141.0	54.193	70.682	96.572	115.572	121.626
141.5	54.193	70.485	95.588	114.834	121.035
142.0	54.144	70.387	94.653	113.898	120.396
142.5	54.094	70.239	93.668	113.062	119.657
143.0	54.045	70.091	92.733	112.274	118.919
143.5	54.045	69.894	91.650	111.437	118.230
144.0	54.045	69.648	90.715	110.797	117.442
144.5	54.193	69.451	89.780	110.059	116.753
145.0	54.390	69.255	88.746	109.419	115.966
145.5	54.734	69.008	87.811	108.779	115.178
146.0	55.177	68.812	86.925	108.090	114.440
146.5	55.620	68.615	86.187	107.352	113.603
147.0	56.063	68.369	85.350	106.614	112.766
147.5	56.457	68.270	84.710	105.875	111.930
148.0	56.900	68.073	84.021	105.039	111.044
148.5	57.294	68.024	83.480	104.251	110.158
149.0	57.786	68.024	82.889	103.463	109.370
149.5	58.131	68.172	82.347	102.627	108.386
150.0	58.524	68.270	81.806	101.839	107.352
150.5	58.869	68.319	81.215	100.953	106.269
151.0	59.115	68.467	80.428	100.067	104.989
151.5	59.361	68.516	79.591	99.132	103.808
152.0	59.656	68.615	78.804	98.148	102.627
152.5	59.952	68.713	78.065	97.114	101.347
153.0	60.149	68.762	77.278	95.933	100.313
153.5	60.395	68.910	76.441	94.702	99.132
154.0	60.592	68.861	75.703	93.324	98.148
154.5	60.838	68.910	75.063	91.995	97.163
155.0	60.936	69.008	74.423	90.469	96.425
155.5	61.133	69.058	73.783	89.042	95.637
156.0	61.281	69.058	73.340	87.516	94.948
156.5	61.527	69.058	72.897	85.990	94.062
157.0	61.625	69.156	72.454	84.612	93.225
157.5	61.773	69.156	72.159	83.283	92.290
158.0	61.970	69.107	72.011	81.904	91.404
158.5	62.019	69.107	71.814	80.772	90.371
159.0	62.265	68.959	71.666	79.689	89.485
159.5	62.462	68.861	71.420	78.656	88.500
160.0	62.708	68.762	71.174	77.819	87.516
160.5	63.003	68.713	70.977	77.032	86.580
161.0	63.200	68.565	70.928	76.195	85.645
161.5	63.496	68.516	70.830	75.358	84.956
162.0	63.742	68.418	70.977	74.669	84.366
162.5	63.988	68.418	71.076	73.931	83.676
163.0	64.283	68.369	71.125	73.143	83.086
163.5	64.529	68.369	71.223	72.306	82.347
164.0	64.628	68.369	71.322	71.273	81.658
164.5	64.775	68.270	71.223	70.485	80.772
165.0	64.923	68.270	71.076	69.698	79.886
165.5	65.071	68.221	70.928	69.156	78.951
166.0	65.218	68.172	70.830	68.565	77.524
166.5	65.366	68.172	70.682	68.073	76.835

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

167.0	65.563	68.172	70.534	67.630	76.293
167.5	65.661	68.172	70.239	67.236	75.752
168.0	65.809	68.172	69.993	66.843	75.309
168.5	66.104	67.975	69.648	66.498	74.767
169.0	66.252	68.024	69.402	66.154	74.226
169.5	66.498	67.876	69.008	65.760	73.635
170.0	66.597	67.827	68.664	65.268	73.094
170.5	66.744	67.729	68.221	64.726	72.503
171.0	66.843	67.630	67.729	64.136	71.765
171.5	66.990	67.630	67.286	63.594	71.174
172.0	67.236	67.532	67.040	63.053	70.288
172.5	67.384	67.532	66.744	62.462	69.304
173.0	67.581	67.433	66.498	61.921	67.630
173.5	67.827	67.483	66.400	61.379	65.120
174.0	68.024	67.483	66.350	60.936	62.019
174.5	68.172	67.483	66.252	60.493	58.327
175.0	68.467	67.630	66.203	60.149	54.144
175.5	68.565	67.679	66.154	60.001	49.763
176.0	68.762	67.778	66.154	59.853	46.908
176.5	68.812	67.827	66.104	59.853	44.890
177.0	69.008	67.926	66.006	59.706	42.823
177.5	69.058	67.926	65.858	59.656	42.380
178.0	69.255	68.024	65.809	59.607	42.478
178.5	69.353	68.073	65.858	59.509	42.577
179.0	69.451	68.073	65.809	59.361	42.626
179.5	69.550	68.073	65.760	59.312	42.675
180.0	62.364	62.364	62.364	62.364	62.364



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L50-830-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	563.52	N.A.	11.70
0-30	1180.77	N.A.	24.50
0-40	1896.75	N.A.	39.40
0-60	3210.00	N.A.	66.70
0-80	3999.08	N.A.	83.10
0-90	4197.54	N.A.	87.30
10-90	4050.62	N.A.	84.20
20-40	1333.22	N.A.	27.70
20-50	2038.28	N.A.	42.40
40-70	1781.05	N.A.	37.00
60-80	789.09	N.A.	16.40
70-80	321.29	N.A.	6.70
80-90	198.45	N.A.	4.10
90-110	231.79	N.A.	4.80
90-120	329.38	N.A.	6.80
90-130	419.19	N.A.	8.70
90-150	550.32	N.A.	11.40
90-180	613.00	N.A.	12.70
110-180	381.21	N.A.	7.90
0-180	4810.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	146.91
10-20	416.61
20-30	617.25
30-40	715.97
40-50	705.06
50-60	608.19
60-70	467.80
70-80	321.29
80-90	198.45
90-100	127.15
100-110	104.64
110-120	97.58
120-130	89.81
130-140	75.47
140-150	55.66
150-160	36.39
160-170	20.05
170-180	6.25

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L50-830-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-L50-830-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

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

UGR Viewed Endwise

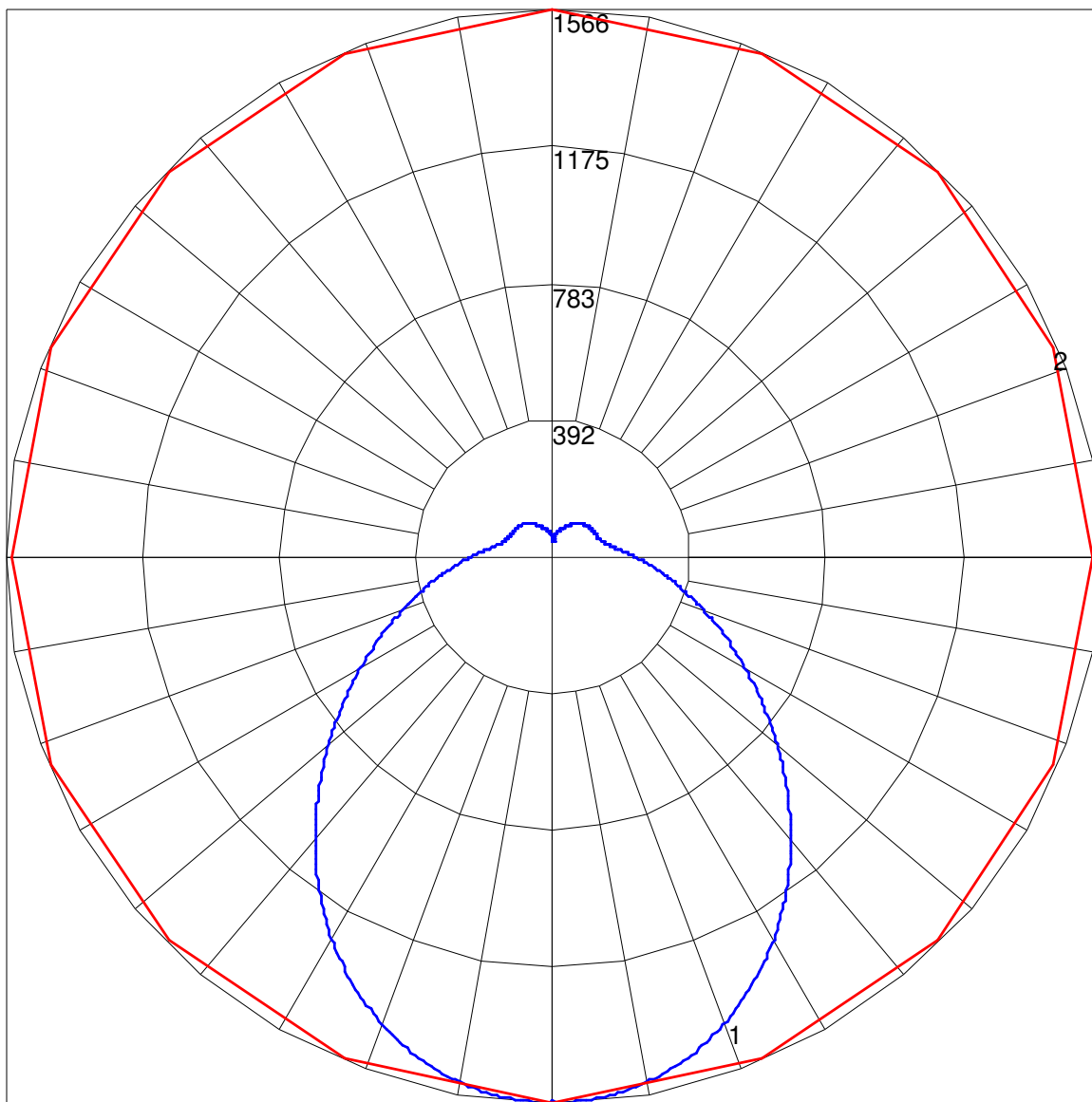
4H	2H	18.0	19.2	18.6	19.8	20.5	19.4	20.5	20.0	21.1	21.8
	3H	19.6	20.6	20.2	21.2	21.9	21.8	22.8	22.4	23.4	24.1
	4H	20.2	21.1	20.8	21.7	22.5	23.1	23.9	23.7	24.6	25.3
	6H	20.6	21.4	21.3	22.1	22.8	24.4	25.2	25.0	25.8	26.6
	8H	20.7	21.5	21.4	22.1	22.9	25.1	25.8	25.7	26.5	27.2
	12H	20.8	21.5	21.5	22.2	22.9	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	24.8	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	23.3	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 = 1566.226 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.)