

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-4-L30-840-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-L30-840-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	3004
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	19.7
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	6590	5903	5845
55	5707	5053	5131
65	4797	4328	4573
75	3847	3781	4274
85	2822	3719	4516

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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	972.067	972.067	972.067	972.067	972.067
0.5	967.457	971.145	971.759	971.452	977.906
1.0	967.457	971.452	971.452	971.145	977.599
1.5	966.535	971.452	971.145	970.837	977.906
2.0	966.228	970.530	971.145	970.530	976.984
2.5	966.228	970.530	970.223	970.223	976.369
3.0	965.306	969.608	969.608	969.608	975.755
3.5	964.691	968.686	968.686	968.993	975.140
4.0	964.076	968.072	968.072	967.764	974.525
4.5	962.540	967.150	967.457	967.150	973.603
5.0	961.618	966.228	966.228	966.228	972.681
5.5	960.388	964.998	964.998	965.306	971.452
6.0	959.774	963.462	963.769	963.769	970.223
6.5	957.622	962.232	962.540	962.540	968.686
7.0	956.393	960.696	961.003	960.696	967.457
7.5	955.164	958.852	959.466	959.466	965.920
8.0	953.627	957.622	957.622	957.622	963.769
8.5	952.091	955.471	956.086	956.086	961.925
9.0	949.632	953.935	954.242	953.935	959.774
9.5	948.095	951.783	951.783	951.783	958.544
10.0	945.637	949.325	949.325	949.939	956.086
10.5	943.486	947.173	947.481	947.481	953.935
11.0	941.334	945.022	945.330	945.022	951.476
11.5	938.568	942.564	943.178	942.564	949.325
12.0	936.110	939.798	940.412	940.412	946.559
12.5	933.651	937.032	937.954	937.339	944.100
13.0	930.885	934.573	935.188	934.880	941.334
13.5	928.119	931.500	932.115	932.115	938.876
14.0	924.739	928.427	929.041	929.041	935.495
14.5	921.973	925.353	925.968	925.968	933.037
15.0	919.207	922.280	922.588	922.588	929.349
15.5	915.826	918.592	919.514	919.514	925.661
16.0	912.138	915.212	916.134	916.134	922.588
16.5	909.065	911.524	912.446	912.753	919.207
17.0	904.763	907.529	908.758	909.065	915.519
17.5	901.075	903.841	905.070	905.377	911.831
18.0	897.694	900.153	901.075	901.997	908.451
18.5	893.699	896.465	897.387	898.002	904.455
19.0	889.704	891.855	893.392	894.006	900.153
19.5	885.094	888.167	889.396	890.626	896.158
20.0	880.177	883.557	885.094	886.016	891.855
20.5	875.260	879.562	880.791	882.021	887.860
21.0	871.264	874.645	875.567	878.025	883.557
21.5	866.654	870.035	871.572	872.801	878.947
22.0	861.737	865.733	867.269	868.498	874.952
22.5	857.435	860.201	862.352	864.196	870.342
23.0	852.210	855.283	857.435	859.279	865.425
23.5	846.678	850.059	852.825	854.669	860.815
24.0	841.147	844.834	847.600	849.752	855.898
24.5	836.537	839.610	842.683	844.527	850.366
25.0	831.312	834.385	837.766	839.610	845.449
25.5	825.473	829.161	831.927	834.693	839.610
26.0	819.941	823.322	827.010	829.468	835.000
26.5	814.102	817.483	821.785	823.936	829.776

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**CANDELA TABULATION - (Cont.)**

27.0	808.263	811.336	816.561	819.327	824.551
27.5	801.502	805.497	810.721	813.180	819.327
28.0	796.585	799.658	804.882	807.648	813.487
28.5	790.131	793.819	799.043	801.809	807.648
29.0	783.984	787.672	792.897	796.277	802.116
29.5	777.530	781.218	786.750	790.131	795.970
30.0	771.077	775.072	780.604	784.906	790.745
30.5	764.316	768.311	774.765	779.067	784.599
31.0	757.862	761.857	768.311	772.921	778.145
31.5	751.101	755.710	762.164	767.081	772.613
32.0	744.647	748.642	756.018	760.628	766.159
32.5	737.578	741.881	749.564	754.481	760.013
33.0	730.817	735.427	742.495	748.335	753.866
33.5	724.363	728.666	736.349	741.574	747.413
34.0	716.680	721.597	729.588	735.427	741.574
34.5	709.612	714.836	723.134	728.666	734.812
35.0	703.158	707.461	716.680	722.519	728.359
35.5	694.860	700.699	709.612	715.758	721.597
36.0	688.406	693.324	702.851	708.997	715.144
36.5	680.416	685.948	695.782	702.543	708.997
37.0	673.040	678.879	688.714	695.475	702.543
37.5	665.357	671.196	681.953	689.328	695.475
38.0	657.674	663.820	674.577	682.260	688.099
38.5	649.684	656.137	667.508	675.806	681.338
39.0	642.615	648.454	660.133	668.738	675.806
39.5	634.625	641.386	653.064	661.669	668.430
40.0	626.020	633.395	645.688	655.215	661.362
40.5	618.029	625.712	638.620	648.454	654.601
41.0	610.653	618.029	631.244	641.386	647.532
41.5	602.663	610.346	623.868	634.317	640.771
42.0	594.673	602.663	616.493	627.556	634.010
42.5	586.989	594.673	608.809	620.488	626.942
43.0	578.384	586.989	601.741	613.727	620.180
43.5	571.009	578.999	594.058	606.658	613.419
44.0	562.711	571.009	586.375	599.897	606.351
44.5	555.028	563.325	578.692	592.521	599.282
45.0	547.037	555.335	571.316	586.067	592.829
45.5	539.047	547.652	563.940	579.306	586.067
46.0	531.056	539.661	555.950	571.931	578.999
46.5	523.066	531.671	549.189	565.784	572.238
47.0	514.768	523.988	541.505	558.408	565.477
47.5	506.778	515.997	533.822	551.340	558.408
48.0	499.095	508.007	526.139	544.886	551.340
48.5	490.490	500.324	519.071	537.510	544.579
49.0	482.806	492.026	511.080	530.442	537.510
49.5	474.816	484.343	503.705	523.681	530.749
50.0	466.518	476.353	496.329	516.305	523.681
50.5	458.835	468.670	488.646	510.158	517.227
51.0	450.845	460.679	481.884	503.090	510.466
51.5	443.162	452.689	474.201	496.329	503.705
52.0	434.864	445.006	466.826	489.260	496.943
52.5	426.873	437.015	459.757	482.192	490.490
53.0	418.576	429.332	452.381	476.045	483.421
53.5	410.585	421.649	445.313	468.977	476.967
54.0	402.902	413.966	438.244	462.216	470.513
54.5	395.526	405.975	431.176	456.069	464.060

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**CANDELA TABULATION - (Cont.)**

55.0	387.843	398.600	424.108	449.001	458.221
55.5	381.389	390.916	417.039	442.547	451.152
56.0	374.014	384.155	410.278	436.093	444.698
56.5	366.331	377.087	403.209	429.639	438.552
57.0	358.955	370.018	396.448	423.186	432.098
57.5	351.272	362.643	390.609	417.039	425.029
58.0	343.589	355.267	383.848	410.278	419.805
58.5	336.213	347.891	377.087	404.439	413.658
59.0	328.837	340.515	370.633	399.214	407.205
59.5	321.461	333.447	364.794	392.760	402.287
60.0	314.085	326.071	358.340	386.614	396.141
60.5	306.863	319.003	351.886	380.775	389.995
61.0	299.610	311.934	345.433	374.936	384.155
61.5	292.419	304.927	338.979	369.096	378.624
62.0	285.351	297.982	332.832	363.565	372.784
62.5	278.374	291.098	326.378	358.033	367.253
63.0	271.306	284.244	320.232	352.194	362.335
63.5	264.299	277.483	314.393	346.662	356.804
64.0	257.476	270.814	308.246	340.823	351.272
64.5	250.684	264.299	302.407	335.291	345.740
65.0	243.954	257.753	296.537	329.759	340.515
65.5	237.316	251.361	290.729	324.227	334.983
66.0	230.585	244.968	284.982	318.695	329.759
66.5	224.009	238.730	279.266	313.471	324.534
67.0	217.586	232.552	273.580	307.939	319.310
67.5	211.132	226.467	268.018	302.776	314.085
68.0	204.770	220.536	262.486	297.551	309.168
68.5	198.501	214.635	257.077	292.481	304.036
69.0	192.262	208.796	251.729	287.379	299.180
69.5	186.116	203.080	246.443	282.431	294.355
70.0	180.000	197.456	241.250	277.575	289.561
70.5	174.038	191.893	236.056	272.720	284.828
71.0	168.137	186.392	230.954	267.925	280.157
71.5	162.298	181.014	225.976	263.254	275.547
72.0	156.582	175.605	220.997	258.613	271.060
72.5	150.835	170.381	216.141	254.065	266.604
73.0	145.241	165.187	211.316	249.578	262.117
73.5	139.802	160.054	206.645	245.122	257.753
74.0	134.424	155.076	201.912	240.819	253.358
74.5	129.138	150.066	197.394	236.548	249.209
75.0	123.882	145.180	192.907	232.368	245.183
75.5	118.719	140.416	188.482	228.219	241.096
76.0	113.710	135.745	184.179	224.101	237.101
76.5	108.731	131.135	179.908	220.075	233.105
77.0	103.814	126.556	175.697	216.080	229.233
77.5	98.989	122.100	171.548	212.207	225.392
78.0	94.226	117.736	167.522	208.397	221.612
78.5	89.554	113.433	163.527	204.555	217.862
79.0	84.975	109.254	159.655	200.836	214.174
79.5	80.427	105.105	155.844	197.210	210.486
80.0	75.940	101.017	152.033	193.614	206.983
80.5	71.576	97.053	148.345	189.988	203.418
81.0	67.335	93.150	144.811	186.484	199.945
81.5	63.032	89.339	141.277	183.012	196.472
82.0	58.883	85.621	137.835	179.662	193.123
82.5	54.827	81.963	134.454	176.312	189.834

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**CANDELA TABULATION - (Cont.)**

83.0	50.831	78.398	131.135	173.085	186.638
83.5	46.867	74.926	127.970	169.797	183.319
84.0	42.995	71.545	124.897	166.693	180.153
84.5	39.153	68.287	121.885	163.619	177.050
85.0	35.465	65.122	118.935	160.577	173.946
85.5	31.777	62.110	116.046	157.627	170.934
86.0	28.151	59.221	113.218	154.738	167.953
86.5	24.555	56.517	110.545	151.849	164.972
87.0	21.021	53.905	107.840	149.114	162.052
87.5	17.487	51.477	105.289	146.348	159.255
88.0	13.983	49.110	102.769	143.674	156.428
88.5	10.449	46.898	100.341	141.031	153.693
89.0	7.222	44.808	98.036	138.480	150.988
89.5	4.579	42.872	95.793	136.022	148.345
90.0	2.735	41.151	93.734	133.686	145.918
90.5	1.936	39.645	91.828	131.350	143.336
91.0	2.059	38.262	89.892	128.984	140.877
91.5	2.459	36.940	87.956	126.741	138.419
92.0	2.920	35.834	86.112	124.466	136.022
92.5	3.411	34.881	84.545	122.284	133.655
93.0	3.903	34.052	82.916	120.225	131.381
93.5	4.425	33.406	81.379	118.197	129.230
94.0	4.979	32.853	79.935	116.292	127.140
94.5	5.501	32.453	78.583	114.355	124.989
95.0	6.024	32.146	77.323	112.450	122.930
95.5	6.515	31.931	76.155	110.637	120.901
96.0	6.915	31.839	75.141	108.885	118.904
96.5	7.314	31.839	74.127	107.256	117.060
97.0	7.683	31.870	73.205	105.689	115.216
97.5	8.083	31.992	72.344	104.183	113.526
98.0	8.421	32.115	71.576	102.708	111.805
98.5	8.820	32.269	70.930	101.294	110.206
99.0	9.220	32.453	70.254	99.973	108.639
99.5	9.650	32.669	69.670	98.713	107.103
100.0	10.019	32.884	69.209	97.545	105.720
100.5	10.449	33.130	68.748	96.408	104.306
101.0	10.818	33.375	68.410	95.332	103.046
101.5	11.187	33.621	68.072	94.318	101.755
102.0	11.525	33.867	67.826	93.365	100.618
102.5	11.863	34.113	67.581	92.474	99.481
103.0	12.201	34.390	67.396	91.583	98.467
103.5	12.570	34.666	67.243	90.814	97.422
104.0	12.969	34.912	67.089	90.107	96.469
104.5	13.369	35.189	66.997	89.431	95.578
105.0	13.737	35.465	66.904	88.817	94.717
105.5	14.075	35.711	66.812	88.171	93.980
106.0	14.475	36.018	66.782	87.618	93.242
106.5	14.844	36.295	66.782	87.096	92.505
107.0	15.213	36.602	66.782	86.604	91.890
107.5	15.551	36.848	66.782	86.235	91.245
108.0	15.981	37.156	66.782	85.805	90.599
108.5	16.380	37.463	66.812	85.498	90.169
109.0	16.780	37.709	66.874	85.098	89.739
109.5	17.210	37.985	66.904	84.822	89.278
110.0	17.640	38.262	66.966	84.514	88.909
110.5	18.071	38.538	67.027	84.238	88.571

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**CANDELA TABULATION - (Cont.)**

111.0	18.501	38.815	67.058	83.992	88.202
111.5	18.931	39.061	67.089	83.807	87.895
112.0	19.392	39.338	67.150	83.623	87.526
112.5	19.853	39.614	67.212	83.408	87.188
113.0	20.345	39.891	67.304	83.254	87.034
113.5	20.806	40.137	67.304	83.100	86.819
114.0	21.298	40.382	67.365	82.978	86.604
114.5	21.759	40.659	67.427	82.824	86.420
115.0	22.250	40.874	67.488	82.732	86.266
115.5	22.742	41.151	67.488	82.640	86.112
116.0	23.203	41.397	67.581	82.517	85.928
116.5	23.633	41.642	67.642	82.394	85.866
117.0	24.125	41.919	67.704	82.394	85.713
117.5	24.586	42.134	67.765	82.271	85.621
118.0	24.985	42.349	67.826	82.209	85.498
118.5	25.446	42.564	67.857	82.117	85.467
119.0	25.846	42.780	67.919	82.025	85.282
119.5	26.276	42.933	67.980	81.933	85.252
120.0	26.676	43.087	67.949	81.871	85.098
120.5	27.075	43.271	67.980	81.748	85.067
121.0	27.475	43.394	68.042	81.656	84.944
121.5	27.905	43.548	68.011	81.533	84.883
122.0	28.305	43.732	68.011	81.472	84.791
122.5	28.704	43.917	68.042	81.349	84.576
123.0	29.104	44.101	68.011	81.226	84.545
123.5	29.472	44.255	67.949	81.134	84.361
124.0	29.780	44.378	67.949	81.041	84.330
124.5	30.087	44.501	67.949	80.888	84.207
125.0	30.394	44.654	67.888	80.734	84.084
125.5	30.702	44.746	67.826	80.642	83.930
126.0	30.978	44.869	67.796	80.457	83.807
126.5	31.224	45.023	67.734	80.335	83.715
127.0	31.501	45.084	67.673	80.181	83.592
127.5	31.716	45.177	67.581	80.027	83.377
128.0	31.992	45.177	67.550	79.843	83.254
128.5	32.208	45.238	67.427	79.689	83.131
129.0	32.423	45.300	67.304	79.536	82.978
129.5	32.607	45.392	67.089	79.290	82.793
130.0	32.761	45.453	66.874	79.136	82.609
130.5	32.914	45.515	66.628	78.952	82.394
131.0	33.007	45.607	66.382	78.675	82.179
131.5	33.130	45.699	66.136	78.429	81.963
132.0	33.252	45.791	65.860	78.275	81.779
132.5	33.314	45.822	65.552	77.968	81.502
133.0	33.406	45.853	65.429	77.692	81.164
133.5	33.437	45.822	65.245	77.476	81.011
134.0	33.468	45.761	65.122	77.231	80.796
134.5	33.560	45.638	64.968	76.954	80.396
135.0	33.652	45.545	64.784	76.585	80.089
135.5	33.621	45.300	64.630	76.339	79.843
136.0	33.683	45.269	64.415	76.032	79.536
136.5	33.744	45.177	64.262	75.694	79.228
137.0	33.775	45.023	64.016	75.417	78.890
137.5	33.806	44.869	63.801	75.049	78.583
138.0	33.867	44.777	63.493	74.741	78.214
138.5	33.867	44.654	63.094	74.403	77.937

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

139.0	33.836	44.562	62.633	74.004	77.507
139.5	33.836	44.439	62.080	73.573	77.200
140.0	33.836	44.285	61.465	73.174	76.770
140.5	33.836	44.193	60.912	72.682	76.309
141.0	33.836	44.132	60.297	72.160	75.940
141.5	33.836	44.009	59.682	71.699	75.571
142.0	33.806	43.947	59.098	71.115	75.172
142.5	33.775	43.855	58.484	70.592	74.711
143.0	33.744	43.763	57.900	70.101	74.250
143.5	33.744	43.640	57.224	69.578	73.819
144.0	33.744	43.486	56.640	69.179	73.328
144.5	33.836	43.363	56.056	68.718	72.897
145.0	33.959	43.241	55.411	68.318	72.406
145.5	34.174	43.087	54.827	67.919	71.914
146.0	34.451	42.964	54.273	67.488	71.453
146.5	34.728	42.841	53.812	67.027	70.930
147.0	35.004	42.687	53.290	66.566	70.408
147.5	35.250	42.626	52.891	66.105	69.886
148.0	35.527	42.503	52.460	65.583	69.332
148.5	35.773	42.472	52.122	65.091	68.779
149.0	36.080	42.472	51.753	64.600	68.287
149.5	36.295	42.564	51.415	64.077	67.673
150.0	36.541	42.626	51.077	63.585	67.027
150.5	36.756	42.657	50.709	63.032	66.351
151.0	36.910	42.749	50.217	62.479	65.552
151.5	37.063	42.780	49.694	61.895	64.815
152.0	37.248	42.841	49.203	61.280	64.077
152.5	37.432	42.902	48.742	60.635	63.278
153.0	37.555	42.933	48.250	59.898	62.633
153.5	37.709	43.025	47.727	59.129	61.895
154.0	37.832	42.995	47.266	58.269	61.280
154.5	37.985	43.025	46.867	57.439	60.666
155.0	38.047	43.087	46.467	56.486	60.205
155.5	38.170	43.118	46.068	55.595	59.713
156.0	38.262	43.118	45.791	54.642	59.283
156.5	38.416	43.118	45.515	53.690	58.730
157.0	38.477	43.179	45.238	52.829	58.207
157.5	38.569	43.179	45.054	51.999	57.623
158.0	38.692	43.148	44.962	51.139	57.070
158.5	38.723	43.148	44.839	50.432	56.425
159.0	38.877	43.056	44.746	49.756	55.872
159.5	38.999	42.995	44.593	49.110	55.257
160.0	39.153	42.933	44.439	48.588	54.642
160.5	39.338	42.902	44.316	48.096	54.058
161.0	39.460	42.810	44.285	47.574	53.474
161.5	39.645	42.780	44.224	47.051	53.044
162.0	39.798	42.718	44.316	46.621	52.675
162.5	39.952	42.718	44.378	46.160	52.245
163.0	40.137	42.687	44.408	45.668	51.876
163.5	40.290	42.687	44.470	45.146	51.415
164.0	40.352	42.687	44.531	44.501	50.985
164.5	40.444	42.626	44.470	44.009	50.432
165.0	40.536	42.626	44.378	43.517	49.879
165.5	40.628	42.595	44.285	43.179	49.295
166.0	40.720	42.564	44.224	42.810	48.404
166.5	40.813	42.564	44.132	42.503	47.973

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CANDELA TABULATION - (Cont.)

167.0	40.936	42.564	44.040	42.226	47.635
167.5	40.997	42.564	43.855	41.980	47.297
168.0	41.089	42.564	43.702	41.735	47.021
168.5	41.274	42.441	43.486	41.520	46.683
169.0	41.366	42.472	43.333	41.304	46.345
169.5	41.520	42.380	43.087	41.059	45.976
170.0	41.581	42.349	42.872	40.751	45.638
170.5	41.673	42.288	42.595	40.413	45.269
171.0	41.735	42.226	42.288	40.044	44.808
171.5	41.827	42.226	42.011	39.706	44.439
172.0	41.980	42.165	41.858	39.368	43.886
172.5	42.073	42.165	41.673	38.999	43.271
173.0	42.196	42.103	41.520	38.661	42.226
173.5	42.349	42.134	41.458	38.323	40.659
174.0	42.472	42.134	41.427	38.047	38.723
174.5	42.564	42.134	41.366	37.770	36.418
175.0	42.749	42.226	41.335	37.555	33.806
175.5	42.810	42.257	41.304	37.463	31.070
176.0	42.933	42.319	41.304	37.371	29.288
176.5	42.964	42.349	41.274	37.371	28.028
177.0	43.087	42.411	41.212	37.278	26.737
177.5	43.118	42.411	41.120	37.248	26.461
178.0	43.241	42.472	41.089	37.217	26.522
178.5	43.302	42.503	41.120	37.156	26.584
179.0	43.363	42.503	41.089	37.063	26.614
179.5	43.425	42.503	41.059	37.033	26.645
180.0	38.938	38.938	38.938	38.938	38.938



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	351.85	N.A.	11.70
0-30	737.24	N.A.	24.50
0-40	1184.27	N.A.	39.40
0-60	2004.23	N.A.	66.70
0-80	2496.91	N.A.	83.10
0-90	2620.82	N.A.	87.30
10-90	2529.09	N.A.	84.20
20-40	832.43	N.A.	27.70
20-50	1272.64	N.A.	42.40
40-70	1112.04	N.A.	37.00
60-80	492.68	N.A.	16.40
70-80	200.60	N.A.	6.70
80-90	123.91	N.A.	4.10
90-110	144.73	N.A.	4.80
90-120	205.65	N.A.	6.80
90-130	261.73	N.A.	8.70
90-150	343.60	N.A.	11.40
90-180	382.74	N.A.	12.70
110-180	238.02	N.A.	7.90
0-180	3003.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	91.73
10-20	260.12
20-30	385.39
30-40	447.03
40-50	440.22
50-60	379.74
60-70	292.08
70-80	200.60
80-90	123.91
90-100	79.39
100-110	65.34
110-120	60.93
120-130	56.07
130-140	47.12
140-150	34.75
150-160	22.72
160-170	12.52
170-180	3.90

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L30-840-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	39	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**  
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**UGR TABLE - CORRECTED**

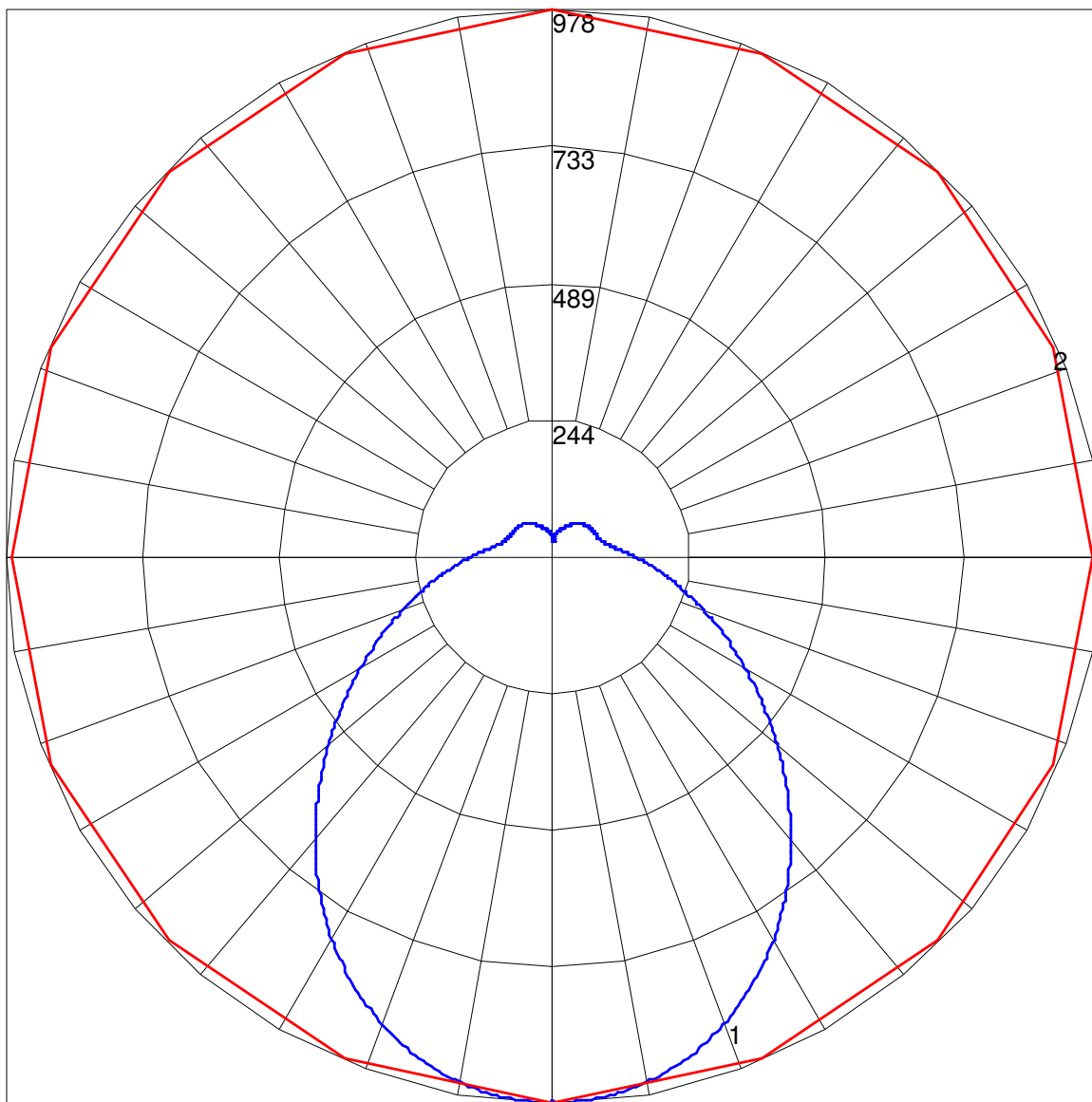
Reflectances

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	15.6	17.0	16.2	17.5	18.1	17.3	18.6	17.8	19.2	19.8
	3H	17.0	18.2	17.5	18.8	19.4	19.5	20.7	20.0	21.3	21.9
	4H	17.4	18.6	18.0	19.2	19.8	20.5	21.7	21.1	22.3	23.0
	6H	17.7	18.8	18.3	19.4	20.1	21.7	22.7	22.3	23.3	24.0
	8H	17.8	18.8	18.4	19.4	20.1	22.2	23.3	22.9	23.9	24.6
	12H	17.8	18.8	18.4	19.4	20.1	22.9	23.9	23.5	24.5	25.2
4H	2H	16.3	17.5	16.9	18.1	18.8	17.7	18.8	18.3	19.4	20.1
	3H	17.9	18.9	18.5	19.5	20.2	20.1	21.1	20.7	21.7	22.4
	4H	18.5	19.4	19.1	20.0	20.8	21.4	22.2	22.0	22.9	23.6
	6H	18.9	19.7	19.6	20.4	21.1	22.7	23.5	23.3	24.1	24.9
	8H	19.0	19.8	19.7	20.4	21.2	23.4	24.1	24.0	24.8	25.5
	12H	19.1	19.8	19.8	20.5	21.2	24.2	24.8	24.8	25.5	26.3
8H	4H	19.1	19.8	19.7	20.5	21.2	21.5	22.3	22.2	22.9	23.7
	6H	19.7	20.3	20.3	21.0	21.7	23.1	23.7	23.7	24.4	25.1
	8H	19.9	20.4	20.5	21.1	21.9	23.9	24.5	24.6	25.2	25.9
	12H	20.0	20.5	20.7	21.2	22.0	24.9	25.4	25.6	26.1	26.9
12H	4H	19.2	19.9	19.9	20.6	21.3	21.6	22.2	22.2	22.9	23.7
	6H	19.9	20.5	20.6	21.2	22.0	23.1	23.7	23.8	24.3	25.1
	8H	20.2	20.7	20.9	21.4	22.2	24.0	24.5	24.7	25.2	26.0

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 977.906 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.)