

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-2-L15-840-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-2-L15-840-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	1556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	10.8
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)	1.88 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	6612	5971	5989
55	5676	5090	5258
65	4705	4333	4686
75	3666	3748	4380
85	2411	3611	4628

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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	503.701	503.701	503.701	503.701	503.701
0.5	501.312	503.223	503.542	503.383	506.727
1.0	501.312	503.383	503.383	503.223	506.568
1.5	500.835	503.383	503.223	503.064	506.727
2.0	500.675	502.905	503.223	502.905	506.249
2.5	500.675	502.905	502.746	502.746	505.931
3.0	500.198	502.427	502.427	502.427	505.612
3.5	499.879	501.949	501.949	502.109	505.294
4.0	499.561	501.631	501.631	501.472	504.975
4.5	498.764	501.153	501.312	501.153	504.497
5.0	498.287	500.675	500.675	500.675	504.020
5.5	497.650	500.038	500.038	500.198	503.383
6.0	497.331	499.242	499.401	499.401	502.746
6.5	496.216	498.605	498.764	498.764	501.949
7.0	495.579	497.809	497.968	497.809	501.312
7.5	494.942	496.853	497.172	497.172	500.516
8.0	494.146	496.216	496.216	496.216	499.401
8.5	493.350	495.102	495.420	495.420	498.446
9.0	492.076	494.305	494.465	494.305	497.331
9.5	491.280	493.191	493.191	493.191	496.694
10.0	490.006	491.917	491.917	492.235	495.420
10.5	488.891	490.802	490.961	490.961	494.305
11.0	487.776	489.687	489.847	489.687	493.032
11.5	486.343	488.413	488.732	488.413	491.917
12.0	485.069	486.980	487.299	487.299	490.484
12.5	483.795	485.547	486.025	485.706	489.210
13.0	482.362	484.273	484.591	484.432	487.776
13.5	480.929	482.680	482.999	482.999	486.502
14.0	479.177	481.088	481.406	481.406	484.751
14.5	477.744	479.495	479.814	479.814	483.477
15.0	476.310	477.903	478.062	478.062	481.566
15.5	474.559	475.992	476.470	476.470	479.655
16.0	472.648	474.240	474.718	474.718	478.062
16.5	471.055	472.329	472.807	472.966	476.310
17.0	468.826	470.259	470.896	471.055	474.400
17.5	466.915	468.348	468.985	469.144	472.489
18.0	465.163	466.437	466.915	467.393	470.737
18.5	463.093	464.526	465.004	465.322	468.667
19.0	461.023	462.137	462.934	463.252	466.437
19.5	458.634	460.226	460.863	461.500	464.367
20.0	456.086	457.838	458.634	459.112	462.137
20.5	453.538	455.768	456.404	457.041	460.067
21.0	451.468	453.220	453.697	454.971	457.838
21.5	449.079	450.831	451.627	452.264	455.449
22.0	446.531	448.601	449.398	450.035	453.379
22.5	444.302	445.735	446.850	447.805	450.990
23.0	441.594	443.187	444.302	445.257	448.442
23.5	438.728	440.480	441.913	442.868	446.053
24.0	435.862	437.772	439.206	440.320	443.505
24.5	433.473	435.065	436.658	437.613	440.639
25.0	430.766	432.358	434.110	435.065	438.091
25.5	427.740	429.651	431.084	432.517	435.065
26.0	424.873	426.625	428.536	429.810	432.677
26.5	421.848	423.599	425.829	426.944	429.969

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**CANDELA TABULATION - (Cont.)**

27.0	418.822	420.414	423.122	424.555	427.262
27.5	415.319	417.389	420.096	421.370	424.555
28.0	412.771	414.363	417.070	418.503	421.529
28.5	409.426	411.337	414.045	415.478	418.503
29.0	406.241	408.152	410.860	412.611	415.637
29.5	402.897	404.808	407.675	409.426	412.452
30.0	399.553	401.623	404.490	406.719	409.745
30.5	396.050	398.120	401.464	403.693	406.560
31.0	392.705	394.776	398.120	400.508	403.216
31.5	389.202	391.591	394.935	397.483	400.349
32.0	385.858	387.928	391.750	394.139	397.005
32.5	382.195	384.424	388.406	390.954	393.820
33.0	378.692	381.080	384.743	387.769	390.635
33.5	375.347	377.577	381.558	384.265	387.291
34.0	371.366	373.914	378.055	381.080	384.265
34.5	367.703	370.411	374.710	377.577	380.762
35.0	364.359	366.589	371.366	374.392	377.418
35.5	360.060	363.085	367.703	370.888	373.914
36.0	356.715	359.263	364.200	367.385	370.570
36.5	352.575	355.441	360.537	364.041	367.385
37.0	348.753	351.779	356.875	360.378	364.041
37.5	344.772	347.797	353.371	357.193	360.378
38.0	340.791	343.975	349.549	353.530	356.556
38.5	336.650	339.994	345.886	350.186	353.053
39.0	332.987	336.013	342.064	346.523	350.186
39.5	328.847	332.350	338.402	342.861	346.364
40.0	324.388	328.210	334.580	339.517	342.701
40.5	320.248	324.229	330.917	336.013	339.198
41.0	316.426	320.248	327.095	332.350	335.535
41.5	312.285	316.266	323.273	328.688	332.032
42.0	308.145	312.285	319.451	325.184	328.528
42.5	304.163	308.145	315.470	321.522	324.866
43.0	299.705	304.163	311.807	318.018	321.362
43.5	295.883	300.023	307.826	314.355	317.859
44.0	291.583	295.883	303.845	310.852	314.196
44.5	287.602	291.901	299.864	307.030	310.533
45.0	283.461	287.761	296.042	303.686	307.189
45.5	279.321	283.780	292.220	300.182	303.686
46.0	275.180	279.639	288.079	296.360	300.023
46.5	271.040	275.499	284.576	293.175	296.520
47.0	266.740	271.518	280.595	289.353	293.016
47.5	262.600	267.377	276.614	285.691	289.353
48.0	258.619	263.237	272.632	282.347	285.691
48.5	254.160	259.256	268.970	278.525	282.187
49.0	250.178	254.956	264.829	274.862	278.525
49.5	246.038	250.975	261.007	271.358	275.021
50.0	241.738	246.834	257.185	267.536	271.358
50.5	237.757	242.853	253.204	264.352	268.014
51.0	233.617	238.713	249.701	260.689	264.511
51.5	229.635	234.572	245.720	257.185	261.007
52.0	225.336	230.591	241.898	253.523	257.504
52.5	221.195	226.451	238.235	249.860	254.160
53.0	216.896	222.469	234.413	246.675	250.497
53.5	212.755	218.488	230.750	243.012	247.153
54.0	208.774	214.507	227.088	239.509	243.809
54.5	204.952	210.366	223.425	236.324	240.464

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**CANDELA TABULATION - (Cont.)**

55.0	200.971	206.545	219.762	232.661	237.439
55.5	197.627	202.563	216.099	229.317	233.776
56.0	193.805	199.060	212.596	225.973	230.432
56.5	189.824	195.397	208.933	222.629	227.247
57.0	186.002	191.734	205.430	219.284	223.903
57.5	182.020	187.913	202.404	216.099	220.240
58.0	178.039	184.091	198.901	212.596	217.533
58.5	174.217	180.269	195.397	209.570	214.348
59.0	170.395	176.447	192.053	206.863	211.003
59.5	166.573	172.784	189.027	203.519	208.456
60.0	162.751	168.962	185.683	200.334	205.271
60.5	159.009	165.299	182.339	197.308	202.086
61.0	155.251	161.637	178.995	194.282	199.060
61.5	151.524	158.006	175.650	191.257	196.193
62.0	147.862	154.407	172.465	188.390	193.168
62.5	144.247	150.840	169.121	185.524	190.301
63.0	140.584	147.288	165.936	182.498	187.753
63.5	136.953	143.785	162.911	179.632	184.887
64.0	133.418	140.329	159.726	176.606	182.020
64.5	129.899	136.953	156.700	173.739	179.154
65.0	126.411	133.561	153.658	170.873	176.447
65.5	122.971	130.249	150.649	168.007	173.580
66.0	119.484	126.937	147.671	165.140	170.873
66.5	116.076	123.704	144.709	162.433	168.166
67.0	112.748	120.503	141.762	159.566	165.459
67.5	109.403	117.350	138.880	156.891	162.751
68.0	106.107	114.276	136.014	154.184	160.203
68.5	102.858	111.219	133.211	151.556	157.544
69.0	99.625	108.193	130.440	148.913	155.028
69.5	96.441	105.231	127.701	146.349	152.528
70.0	93.271	102.317	125.010	143.833	150.043
70.5	90.182	99.434	122.318	141.317	147.591
71.0	87.125	96.584	119.675	138.832	145.170
71.5	84.099	93.797	117.095	136.412	142.782
72.0	81.137	90.994	114.515	134.007	140.457
72.5	78.159	88.287	111.999	131.650	138.148
73.0	75.261	85.596	109.499	129.325	135.823
73.5	72.442	82.936	107.078	127.016	133.561
74.0	69.655	80.356	104.626	124.787	131.284
74.5	66.916	77.761	102.285	122.573	129.134
75.0	64.193	75.229	99.960	120.407	127.048
75.5	61.517	72.760	97.667	118.257	124.930
76.0	58.922	70.340	95.437	116.124	122.860
76.5	56.342	67.951	93.224	114.037	120.790
77.0	53.794	65.578	91.042	111.967	118.783
77.5	51.294	63.269	88.892	109.961	116.792
78.0	48.825	61.008	86.806	107.986	114.834
78.5	46.405	58.778	84.736	105.995	112.891
79.0	44.032	56.613	82.729	104.069	110.980
79.5	41.675	54.463	80.755	102.189	109.069
80.0	39.350	52.345	78.780	100.326	107.253
80.5	37.089	50.290	76.869	98.447	105.406
81.0	34.891	48.268	75.038	96.632	103.607
81.5	32.662	46.293	73.206	94.832	101.807
82.0	30.512	44.366	71.423	93.096	100.071
82.5	28.410	42.471	69.671	91.361	98.367

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**CANDELA TABULATION - (Cont.)**

83.0	26.340	40.624	67.951	89.688	96.711
83.5	24.285	38.825	66.311	87.984	94.991
84.0	22.279	37.073	64.718	86.376	93.351
84.5	20.288	35.385	63.158	84.784	91.743
85.0	18.377	33.745	61.629	83.207	90.134
85.5	16.466	32.184	60.132	81.678	88.574
86.0	14.587	30.687	58.667	80.181	87.029
86.5	12.724	29.286	57.281	78.684	85.484
87.0	10.893	27.932	55.880	77.267	83.971
87.5	9.061	26.674	54.558	75.834	82.522
88.0	7.246	25.448	53.252	74.448	81.057
88.5	5.414	24.301	51.994	73.079	79.640
89.0	3.742	23.218	50.800	71.757	78.238
89.5	2.373	22.215	49.638	70.483	76.869
90.0	1.417	21.323	48.571	69.273	75.611
90.5	1.003	20.543	47.583	68.063	74.273
91.0	1.067	19.826	46.580	66.836	72.999
91.5	1.274	19.142	45.577	65.674	71.725
92.0	1.513	18.568	44.621	64.495	70.483
92.5	1.768	18.075	43.809	63.365	69.257
93.0	2.022	17.645	42.965	62.298	68.078
93.5	2.293	17.310	42.169	61.247	66.964
94.0	2.580	17.024	41.420	60.259	65.881
94.5	2.851	16.817	40.720	59.256	64.766
95.0	3.121	16.657	40.067	58.269	63.699
95.5	3.376	16.546	39.462	57.329	62.648
96.0	3.583	16.498	38.936	56.422	61.613
96.5	3.790	16.498	38.411	55.578	60.658
97.0	3.981	16.514	37.933	54.765	59.702
97.5	4.188	16.578	37.487	53.985	58.826
98.0	4.363	16.641	37.089	53.221	57.934
98.5	4.570	16.721	36.754	52.488	57.106
99.0	4.777	16.817	36.404	51.803	56.294
99.5	5.000	16.928	36.102	51.150	55.498
100.0	5.191	17.040	35.863	50.545	54.781
100.5	5.414	17.167	35.624	49.956	54.049
101.0	5.606	17.294	35.449	49.399	53.396
101.5	5.797	17.422	35.273	48.873	52.727
102.0	5.972	17.549	35.146	48.380	52.138
102.5	6.147	17.677	35.019	47.918	51.549
103.0	6.322	17.820	34.923	47.456	51.023
103.5	6.513	17.963	34.843	47.058	50.482
104.0	6.720	18.091	34.764	46.691	49.988
104.5	6.927	18.234	34.716	46.341	49.526
105.0	7.118	18.377	34.668	46.023	49.080
105.5	7.294	18.505	34.620	45.688	48.698
106.0	7.501	18.664	34.605	45.402	48.316
106.5	7.692	18.807	34.605	45.131	47.934
107.0	7.883	18.966	34.605	44.876	47.615
107.5	8.058	19.094	34.605	44.685	47.281
108.0	8.281	19.253	34.605	44.462	46.946
108.5	8.488	19.412	34.620	44.303	46.723
109.0	8.695	19.540	34.652	44.096	46.500
109.5	8.918	19.683	34.668	43.952	46.262
110.0	9.141	19.826	34.700	43.793	46.070
110.5	9.364	19.970	34.732	43.650	45.895

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**CANDELA TABULATION - (Cont.)**

111.0	9.587	20.113	34.748	43.522	45.704
111.5	9.810	20.240	34.764	43.427	45.545
112.0	10.049	20.384	34.796	43.331	45.354
112.5	10.287	20.527	34.828	43.220	45.179
113.0	10.542	20.670	34.875	43.140	45.099
113.5	10.781	20.798	34.875	43.061	44.988
114.0	11.036	20.925	34.907	42.997	44.876
114.5	11.275	21.068	34.939	42.917	44.781
115.0	11.530	21.180	34.971	42.870	44.701
115.5	11.784	21.323	34.971	42.822	44.621
116.0	12.023	21.451	35.019	42.758	44.526
116.5	12.246	21.578	35.050	42.694	44.494
117.0	12.501	21.721	35.082	42.694	44.414
117.5	12.740	21.833	35.114	42.631	44.366
118.0	12.947	21.944	35.146	42.599	44.303
118.5	13.186	22.056	35.162	42.551	44.287
119.0	13.393	22.167	35.194	42.503	44.191
119.5	13.616	22.247	35.226	42.455	44.175
120.0	13.823	22.327	35.210	42.424	44.096
120.5	14.030	22.422	35.226	42.360	44.080
121.0	14.237	22.486	35.257	42.312	44.016
121.5	14.460	22.565	35.242	42.248	43.984
122.0	14.667	22.661	35.242	42.217	43.936
122.5	14.874	22.757	35.257	42.153	43.825
123.0	15.081	22.852	35.242	42.089	43.809
123.5	15.272	22.932	35.210	42.041	43.714
124.0	15.431	22.995	35.210	41.994	43.698
124.5	15.590	23.059	35.210	41.914	43.634
125.0	15.750	23.139	35.178	41.834	43.570
125.5	15.909	23.186	35.146	41.787	43.491
126.0	16.052	23.250	35.130	41.691	43.427
126.5	16.180	23.330	35.098	41.627	43.379
127.0	16.323	23.362	35.066	41.548	43.315
127.5	16.434	23.409	35.019	41.468	43.204
128.0	16.578	23.409	35.003	41.373	43.140
128.5	16.689	23.441	34.939	41.293	43.077
129.0	16.801	23.473	34.875	41.213	42.997
129.5	16.896	23.521	34.764	41.086	42.901
130.0	16.976	23.553	34.652	41.006	42.806
130.5	17.055	23.585	34.525	40.911	42.694
131.0	17.103	23.632	34.398	40.767	42.583
131.5	17.167	23.680	34.270	40.640	42.471
132.0	17.231	23.728	34.127	40.560	42.376
132.5	17.262	23.744	33.968	40.401	42.233
133.0	17.310	23.760	33.904	40.258	42.057
133.5	17.326	23.744	33.808	40.146	41.978
134.0	17.342	23.712	33.745	40.019	41.866
134.5	17.390	23.648	33.665	39.876	41.659
135.0	17.438	23.601	33.569	39.685	41.500
135.5	17.422	23.473	33.490	39.557	41.373
136.0	17.454	23.457	33.378	39.398	41.213
136.5	17.485	23.409	33.299	39.223	41.054
137.0	17.501	23.330	33.171	39.079	40.879
137.5	17.517	23.250	33.060	38.888	40.720
138.0	17.549	23.202	32.901	38.729	40.529
138.5	17.549	23.139	32.694	38.554	40.385

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**CANDELA TABULATION - (Cont.)**

139.0	17.533	23.091	32.455	38.347	40.162
139.5	17.533	23.027	32.168	38.124	40.003
140.0	17.533	22.948	31.850	37.917	39.780
140.5	17.533	22.900	31.563	37.662	39.541
141.0	17.533	22.868	31.244	37.391	39.350
141.5	17.533	22.804	30.926	37.153	39.159
142.0	17.517	22.772	30.623	36.850	38.952
142.5	17.501	22.725	30.305	36.579	38.713
143.0	17.485	22.677	30.002	36.324	38.474
143.5	17.485	22.613	29.652	36.054	38.251
144.0	17.485	22.534	29.349	35.847	37.997
144.5	17.533	22.470	29.047	35.608	37.774
145.0	17.597	22.406	28.712	35.401	37.519
145.5	17.708	22.327	28.410	35.194	37.264
146.0	17.852	22.263	28.123	34.971	37.025
146.5	17.995	22.199	27.884	34.732	36.754
147.0	18.138	22.120	27.614	34.493	36.484
147.5	18.266	22.088	27.407	34.254	36.213
148.0	18.409	22.024	27.184	33.984	35.926
148.5	18.536	22.008	27.008	33.729	35.640
149.0	18.696	22.008	26.817	33.474	35.385
149.5	18.807	22.056	26.642	33.203	35.066
150.0	18.935	22.088	26.467	32.948	34.732
150.5	19.046	22.104	26.276	32.662	34.382
151.0	19.126	22.151	26.021	32.375	33.968
151.5	19.205	22.167	25.750	32.073	33.585
152.0	19.301	22.199	25.496	31.754	33.203
152.5	19.396	22.231	25.257	31.420	32.789
153.0	19.460	22.247	25.002	31.037	32.455
153.5	19.540	22.295	24.731	30.639	32.073
154.0	19.603	22.279	24.492	30.193	31.754
154.5	19.683	22.295	24.285	29.763	31.436
155.0	19.715	22.327	24.078	29.270	31.197
155.5	19.779	22.342	23.871	28.808	30.942
156.0	19.826	22.342	23.728	28.314	30.719
156.5	19.906	22.342	23.585	27.821	30.432
157.0	19.938	22.374	23.441	27.375	30.162
157.5	19.986	22.374	23.346	26.945	29.859
158.0	20.049	22.358	23.298	26.499	29.572
158.5	20.065	22.358	23.234	26.133	29.238
159.0	20.145	22.311	23.186	25.782	28.951
159.5	20.209	22.279	23.107	25.448	28.633
160.0	20.288	22.247	23.027	25.177	28.314
160.5	20.384	22.231	22.964	24.922	28.012
161.0	20.447	22.183	22.948	24.652	27.709
161.5	20.543	22.167	22.916	24.381	27.486
162.0	20.623	22.135	22.964	24.158	27.295
162.5	20.702	22.135	22.995	23.919	27.072
163.0	20.798	22.120	23.011	23.664	26.881
163.5	20.877	22.120	23.043	23.394	26.642
164.0	20.909	22.120	23.075	23.059	26.419
164.5	20.957	22.088	23.043	22.804	26.133
165.0	21.005	22.088	22.995	22.550	25.846
165.5	21.053	22.072	22.948	22.374	25.543
166.0	21.100	22.056	22.916	22.183	25.082
166.5	21.148	22.056	22.868	22.024	24.859

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

<b>167.0</b>	21.212	22.056	22.820	21.881	24.683
<b>167.5</b>	21.244	22.056	22.725	21.753	24.508
<b>168.0</b>	21.291	22.056	22.645	21.626	24.365
<b>168.5</b>	21.387	21.992	22.534	21.514	24.190
<b>169.0</b>	21.435	22.008	22.454	21.403	24.015
<b>169.5</b>	21.514	21.960	22.327	21.276	23.823
<b>170.0</b>	21.546	21.944	22.215	21.116	23.648
<b>170.5</b>	21.594	21.913	22.072	20.941	23.457
<b>171.0</b>	21.626	21.881	21.913	20.750	23.218
<b>171.5</b>	21.674	21.881	21.769	20.575	23.027
<b>172.0</b>	21.753	21.849	21.690	20.400	22.741
<b>172.5</b>	21.801	21.849	21.594	20.209	22.422
<b>173.0</b>	21.865	21.817	21.514	20.033	21.881
<b>173.5</b>	21.944	21.833	21.483	19.858	21.068
<b>174.0</b>	22.008	21.833	21.467	19.715	20.065
<b>174.5</b>	22.056	21.833	21.435	19.572	18.871
<b>175.0</b>	22.151	21.881	21.419	19.460	17.517
<b>175.5</b>	22.183	21.897	21.403	19.412	16.100
<b>176.0</b>	22.247	21.928	21.403	19.365	15.176
<b>176.5</b>	22.263	21.944	21.387	19.365	14.523
<b>177.0</b>	22.327	21.976	21.355	19.317	13.855
<b>177.5</b>	22.342	21.976	21.307	19.301	13.711
<b>178.0</b>	22.406	22.008	21.291	19.285	13.743
<b>178.5</b>	22.438	22.024	21.307	19.253	13.775
<b>179.0</b>	22.470	22.024	21.291	19.205	13.791
<b>179.5</b>	22.502	22.024	21.276	19.189	13.807
<b>180.0</b>	20.177	20.177	20.177	20.177	20.177



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

Zone	Lumens	%Lamp	%Fixt
0-20	182.32	N.A.	11.70
0-30	382.02	N.A.	24.50
0-40	613.66	N.A.	39.40
0-60	1038.54	N.A.	66.70
0-80	1293.84	N.A.	83.10
0-90	1358.04	N.A.	87.30
10-90	1310.51	N.A.	84.20
20-40	431.34	N.A.	27.70
20-50	659.45	N.A.	42.40
40-70	576.23	N.A.	37.00
60-80	255.30	N.A.	16.40
70-80	103.95	N.A.	6.70
80-90	64.21	N.A.	4.10
90-110	74.99	N.A.	4.80
90-120	106.57	N.A.	6.80
90-130	135.62	N.A.	8.70
90-150	178.05	N.A.	11.40
90-180	198.33	N.A.	12.70
110-180	123.33	N.A.	7.90
0-180	1556.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.53
10-20	134.79
20-30	199.70
30-40	231.64
40-50	228.11
50-60	196.77
60-70	151.35
70-80	103.95
80-90	64.21
90-100	41.14
100-110	33.86
110-120	31.57
120-130	29.06
130-140	24.42
140-150	18.01
150-160	11.77
160-170	6.49
170-180	2.02

**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	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	87	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	84	74	66	60	69	63	58	65	60	55	61	56	53	50
4	80	68	59	52	77	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**  
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**UGR TABLE - CORRECTED**

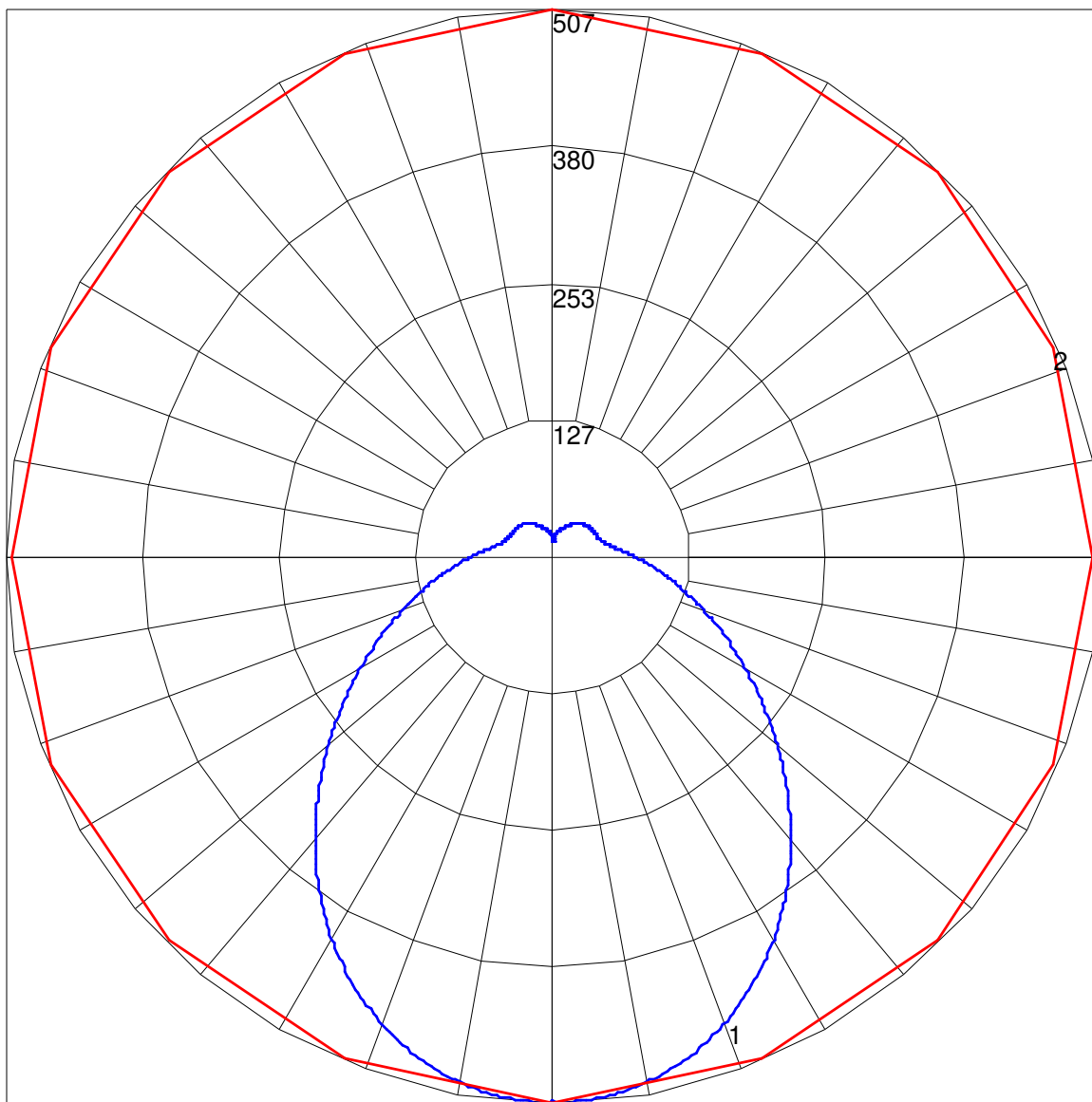
Reflectances

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	17.6	18.2	17.2	18.6	17.8	19.2	19.8
	3H	17.0	18.2	17.6	18.8	19.5	19.4	20.7	20.0	21.2	21.9
	4H	17.4	18.6	18.0	19.2	19.9	20.4	21.6	21.0	22.2	22.9
	6H	17.7	18.8	18.3	19.4	20.1	21.5	22.6	22.1	23.2	23.9
	8H	17.8	18.9	18.4	19.5	20.2	22.1	23.1	22.7	23.8	24.4
	12H	17.9	18.8	18.5	19.5	20.2	22.7	23.7	23.3	24.3	25.0
4H	2H	16.4	17.5	17.0	18.1	18.8	17.6	18.8	18.2	19.4	20.1
	3H	18.0	19.0	18.6	19.6	20.3	20.1	21.0	20.7	21.7	22.4
	4H	18.5	19.4	19.2	20.1	20.8	21.3	22.2	21.9	22.8	23.5
	6H	18.9	19.7	19.6	20.4	21.1	22.6	23.3	23.2	24.0	24.7
	8H	19.1	19.8	19.7	20.5	21.2	23.2	24.0	23.9	24.6	25.4
	12H	19.1	19.8	19.8	20.5	21.2	24.0	24.6	24.6	25.3	26.1
8H	4H	19.1	19.8	19.7	20.5	21.2	21.5	22.2	22.1	22.9	23.6
	6H	19.7	20.3	20.4	21.0	21.7	22.9	23.6	23.6	24.3	25.0
	8H	19.9	20.4	20.6	21.1	21.9	23.7	24.3	24.4	25.0	25.8
	12H	20.0	20.5	20.7	21.2	22.0	24.7	25.2	25.4	25.9	26.7
12H	4H	19.2	19.9	19.9	20.6	21.4	21.5	22.1	22.1	22.8	23.6
	6H	19.9	20.5	20.6	21.2	22.0	23.0	23.5	23.7	24.2	25.0
	8H	20.2	20.7	20.9	21.4	22.2	23.9	24.4	24.6	25.0	25.9

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 506.727 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.)