

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM TEST 13257190.35

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 8/10/2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT)

[LUMINAIRE] Aluminum housing, optics, and trim enclosure

[LAMP] One white LED

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Commercial, Healthcare, Office, Accent, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	27.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5419	5851	5694
55	6632	6197	6197
65	7950	6439	6899
75	4184	3433	3755
85	1594	1594	1911

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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	7523.716	7523.716	7523.716	7523.716	7523.716
0.5	7601.913	7482.383	7500.257	7509.193	7501.374
1.0	7560.580	7441.050	7456.689	7465.626	7458.924
1.5	7490.203	7371.789	7387.429	7395.249	7386.312
2.0	7389.663	7274.601	7285.772	7299.177	7289.123
2.5	7256.727	7150.602	7159.539	7172.944	7162.890
3.0	7094.747	6998.676	7013.198	7024.369	7013.198
3.5	6905.956	6822.173	6842.281	6852.335	6836.695
4.0	6695.940	6624.445	6656.841	6661.309	6638.967
4.5	6461.347	6408.843	6451.293	6451.293	6420.014
5.0	6215.584	6176.485	6231.223	6224.520	6185.422
5.5	5953.063	5932.955	6002.216	5984.342	5934.073
6.0	5676.021	5673.787	5762.038	5730.759	5670.435
6.5	5383.339	5403.447	5512.923	5468.239	5393.393
7.0	5078.369	5121.936	5258.223	5197.899	5106.296
7.5	4757.759	4834.839	4992.351	4923.091	4810.263
8.0	4433.798	4538.806	4726.480	4638.228	4510.878
8.5	4102.017	4238.304	4455.023	4351.132	4207.025
9.0	3771.353	3938.919	4182.449	4065.152	3902.055
9.5	3439.573	3639.535	3915.460	3778.056	3598.202
10.0	3112.260	3343.501	3644.003	3494.311	3297.700
10.5	2797.236	3056.405	3380.366	3217.268	3008.369
11.0	2485.563	2769.308	3118.963	2948.045	2723.507
11.5	2197.350	2497.851	2867.614	2688.877	2456.518
12.0	1925.893	2242.034	2629.670	2440.879	2204.052
12.5	1673.426	1999.622	2399.546	2206.286	1962.757
13.0	1447.771	1775.083	2182.827	1987.333	1739.336
13.5	1238.872	1565.067	1980.631	1780.669	1534.905
14.0	1055.890	1372.925	1789.605	1590.760	1347.231
14.5	900.388	1199.773	1616.454	1416.492	1176.314
15.0	768.793	1042.484	1453.356	1254.511	1022.265
15.5	657.641	905.639	1302.547	1106.718	888.435
16.0	564.251	788.119	1166.260	973.559	772.033
16.5	485.383	683.893	1039.021	854.252	669.929
17.0	420.591	595.306	929.098	748.797	582.683
17.5	366.188	518.561	828.335	655.518	508.395
18.0	321.392	453.545	738.296	577.209	443.380
18.5	283.969	397.914	659.317	507.949	387.189
19.0	253.248	349.431	587.040	446.619	337.925
19.5	226.773	308.098	524.593	394.339	296.927
20.0	202.420	272.574	468.068	348.873	262.185
20.5	181.642	242.077	417.016	309.885	232.917
21.0	163.880	215.602	372.220	275.702	207.670
21.5	148.352	192.254	331.111	244.870	185.663
22.0	133.271	172.258	295.587	218.394	167.008
22.5	119.866	154.049	265.089	195.270	150.698
23.0	107.689	138.186	237.720	175.162	136.175
23.5	97.188	124.334	213.926	156.954	123.329
24.0	88.140	111.822	192.366	140.420	112.269
24.5	80.208	100.428	173.822	126.010	102.439
25.0	73.282	90.374	157.400	113.721	93.837
25.5	67.026	81.996	142.208	102.997	85.906
26.0	61.664	74.734	128.802	93.614	79.203
26.5	56.637	68.032	116.514	85.124	72.724

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT)\_IES****CANDELA TABULATION - (Cont.)**

27.0	52.169	62.223	106.013	77.527	67.026
27.5	48.482	56.861	96.071	70.489	62.111
28.0	45.131	52.169	86.352	64.569	57.643
28.5	42.338	47.924	77.862	59.207	53.733
29.0	39.769	44.014	69.931	54.738	50.158
29.5	37.647	40.774	62.781	50.828	46.807
30.0	35.524	37.870	56.861	47.365	44.014
30.5	33.737	35.524	51.834	44.349	41.445
31.0	32.173	33.625	47.589	41.556	39.210
31.5	30.720	31.949	43.679	39.099	37.088
32.0	29.492	30.497	40.328	36.865	35.412
32.5	28.375	29.156	37.311	34.965	33.848
33.0	27.257	27.928	34.630	33.290	32.396
33.5	26.252	26.922	32.396	31.838	30.944
34.0	25.358	25.917	30.497	30.385	29.715
34.5	24.465	25.023	28.710	29.268	28.598
35.0	23.683	24.241	27.369	28.151	27.481
35.5	23.012	23.459	26.029	27.146	26.475
36.0	22.342	22.789	25.023	26.140	25.582
36.5	21.672	22.119	24.130	25.247	24.800
37.0	21.113	21.560	23.348	24.353	24.018
37.5	20.555	21.002	22.677	23.571	23.348
38.0	19.996	20.443	22.007	22.901	22.566
38.5	19.549	19.885	21.448	22.230	21.895
39.0	18.991	19.438	21.002	21.560	21.337
39.5	18.544	18.991	20.443	20.890	20.666
40.0	18.097	18.544	20.108	20.331	20.108
40.5	17.762	18.097	19.661	19.773	19.549
41.0	17.315	17.762	19.214	19.214	18.991
41.5	16.980	17.315	18.879	18.656	18.544
42.0	16.645	17.092	18.544	18.209	18.097
42.5	16.421	16.757	18.097	17.762	17.650
43.0	16.086	16.421	17.762	17.427	17.315
43.5	15.863	16.198	17.539	16.980	16.980
44.0	15.639	15.975	17.203	16.645	16.645
44.5	15.528	15.751	16.868	16.310	16.421
45.0	15.416	15.528	16.645	16.086	16.198
45.5	15.304	15.416	16.421	15.863	15.975
46.0	15.193	15.304	16.198	15.639	15.751
46.5	15.081	15.193	15.975	15.416	15.528
47.0	14.969	15.081	15.751	15.193	15.304
47.5	14.969	14.969	15.639	15.081	15.193
48.0	14.969	14.858	15.416	14.969	15.081
48.5	14.969	14.858	15.304	14.746	14.969
49.0	14.969	14.746	15.193	14.746	14.858
49.5	14.969	14.746	14.969	14.634	14.746
50.0	14.969	14.746	14.858	14.522	14.746
50.5	14.969	14.746	14.858	14.522	14.634
51.0	14.969	14.746	14.746	14.411	14.522
51.5	14.969	14.746	14.634	14.411	14.522
52.0	14.969	14.746	14.522	14.411	14.522
52.5	15.081	14.746	14.522	14.299	14.411
53.0	15.081	14.746	14.411	14.299	14.411
53.5	15.081	14.858	14.411	14.299	14.411
54.0	15.193	14.858	14.411	14.299	14.299
54.5	15.193	14.858	14.299	14.299	14.299

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55.0	15.304	14.858	14.299	14.299	14.299
55.5	15.304	14.969	14.187	14.187	14.299
56.0	15.304	14.969	14.187	14.187	14.187
56.5	15.416	14.969	14.076	14.187	14.187
57.0	15.416	14.969	14.076	14.187	14.187
57.5	15.416	14.969	13.964	14.076	14.076
58.0	15.416	14.969	13.852	14.076	13.964
58.5	15.416	14.969	13.740	13.964	13.964
59.0	15.416	14.858	13.629	13.852	13.852
59.5	15.416	14.858	13.517	13.852	13.740
60.0	15.416	14.746	13.294	13.740	13.629
60.5	15.304	14.746	13.182	13.629	13.517
61.0	15.193	14.634	12.958	13.405	13.405
61.5	15.081	14.522	12.735	13.294	13.294
62.0	14.969	14.299	12.623	13.182	13.070
62.5	14.746	14.187	12.400	12.958	12.958
63.0	14.522	13.964	12.065	12.735	12.735
63.5	14.299	13.740	11.841	12.512	12.512
64.0	14.076	13.405	11.618	12.288	12.288
64.5	13.740	13.182	11.283	12.065	12.065
65.0	13.517	12.847	10.948	11.730	11.730
65.5	13.182	12.512	10.613	11.506	11.506
66.0	12.847	12.176	10.277	11.171	11.283
66.5	12.512	11.841	9.942	10.836	10.948
67.0	12.176	11.506	9.607	10.613	10.613
67.5	11.730	11.171	9.272	10.277	10.389
68.0	11.394	10.836	8.937	9.942	10.054
68.5	10.948	10.389	8.490	9.607	9.719
69.0	10.501	9.942	8.155	9.160	9.384
69.5	10.054	9.607	7.708	8.825	8.937
70.0	9.607	9.160	7.373	8.490	8.602
70.5	9.160	8.713	6.926	8.043	8.267
71.0	8.713	8.267	6.591	7.708	7.820
71.5	8.155	7.820	6.144	7.261	7.373
72.0	7.708	7.373	5.809	6.926	6.926
72.5	7.149	6.926	5.362	6.479	6.479
73.0	6.591	6.479	5.027	6.032	6.032
73.5	6.144	6.032	4.580	5.586	5.474
74.0	5.586	5.474	4.245	5.139	4.915
74.5	5.027	5.027	3.910	4.692	4.468
75.0	4.357	4.580	3.575	4.245	3.910
75.5	3.686	4.022	3.240	3.686	3.463
76.0	3.016	3.575	2.904	3.240	2.904
76.5	2.234	3.016	2.569	2.904	2.569
77.0	1.676	2.569	2.346	2.458	2.234
77.5	1.341	2.123	2.011	2.123	1.899
78.0	1.229	1.676	1.787	1.899	1.452
78.5	1.117	1.452	1.564	1.564	1.229
79.0	1.117	1.229	1.452	1.229	1.117
79.5	1.005	1.117	1.229	1.117	1.117
80.0	1.005	1.005	1.117	1.005	1.005
80.5	0.894	1.005	1.005	1.005	1.005
81.0	0.894	0.894	1.005	1.005	0.894
81.5	0.782	0.894	0.894	0.894	0.894
82.0	0.782	0.894	0.782	0.894	0.894
82.5	0.782	0.782	0.782	0.782	0.782

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT)\_IES****CANDELA TABULATION - (Cont.)**

83.0	0.670	0.782	0.782	0.782	0.782
83.5	0.670	0.782	0.670	0.782	0.782
84.0	0.559	0.670	0.670	0.670	0.670
84.5	0.559	0.670	0.670	0.670	0.670
85.0	0.559	0.670	0.559	0.670	0.670
85.5	0.447	0.559	0.559	0.559	0.559
86.0	0.447	0.559	0.559	0.559	0.559
86.5	0.447	0.559	0.447	0.559	0.559
87.0	0.335	0.447	0.447	0.447	0.447
87.5	0.335	0.447	0.447	0.447	0.447
88.0	0.335	0.447	0.447	0.447	0.447
88.5	0.223	0.335	0.335	0.447	0.335
89.0	0.223	0.335	0.447	0.335	0.335
89.5	0.223	0.335	0.447	0.335	0.335
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT)\_IES**

**CANDELA TABULATION - (Cont.)**

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT).IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT)\_IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	854.25	N.A.	87.80
0-30	913.26	N.A.	93.80
0-40	930.71	N.A.	95.60
0-60	956.37	N.A.	98.30
0-80	972.55	N.A.	99.90
0-90	973.22	N.A.	100.00
10-90	472.86	N.A.	48.60
20-40	76.47	N.A.	7.90
20-50	89.11	N.A.	9.20
40-70	37.34	N.A.	3.80
60-80	16.18	N.A.	1.70
70-80	4.50	N.A.	0.50
80-90	0.67	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	973.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	500.36
10-20	353.89
20-30	59.01
30-40	17.45
40-50	12.65
50-60	13.01
60-70	11.68
70-80	4.50
80-90	0.67
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT).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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	93	92	94	92	91	89
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	88	87
6	101	95	91	88	99	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	93	89	86	97	92	88	86	91	88	86	90	87	85	89	87	85	84
8	96	90	87	84	95	90	86	84	89	86	84	88	85	83	87	85	83	82
9	94	88	85	82	94	88	85	82	87	84	82	87	84	82	86	84	82	81
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 2AS-L15-840-DIM-UNV-RM-OF-CS (0° TILT)\_IES

## UGR TABLE - CORRECTED

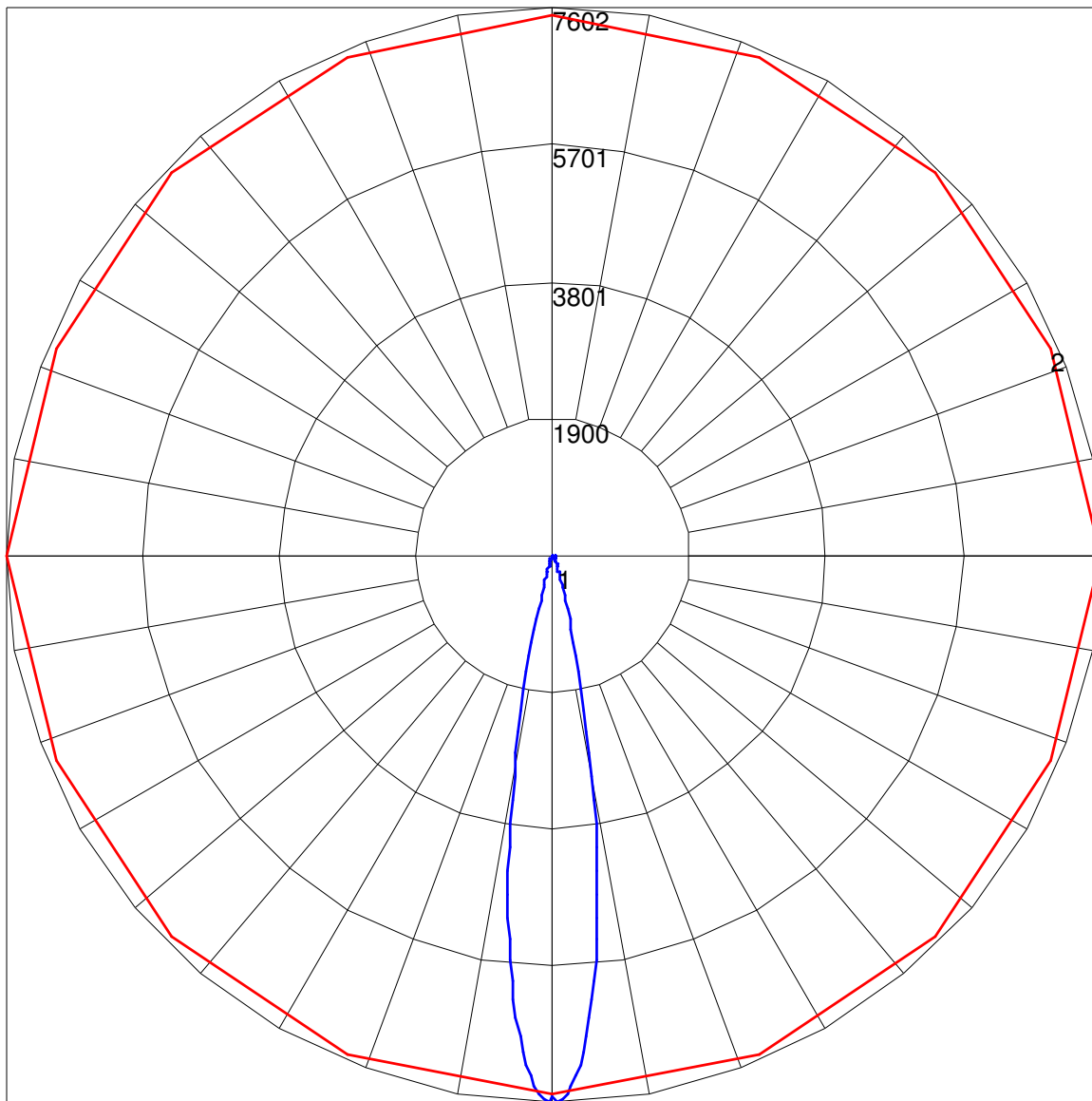
### Reflectances

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	11.6	12.6	12.0	12.9	13.2	11.1	12.1	11.5	12.4	12.7
	3H	13.8	14.6	14.1	14.9	15.3	13.2	14.0	13.6	14.3	14.7
	4H	14.1	14.9	14.5	15.2	15.6	13.5	14.3	13.9	14.6	15.0
	6H	14.0	14.7	14.5	15.1	15.5	13.5	14.2	13.9	14.6	15.0
	8H	14.0	14.7	14.4	15.1	15.5	13.5	14.1	13.9	14.5	14.9
	12H	14.0	14.6	14.4	15.0	15.4	13.4	14.0	13.9	14.4	14.9
4H	2H	12.1	12.9	12.5	13.2	13.6	11.7	12.5	12.1	12.8	13.2
	3H	14.3	14.9	14.7	15.3	15.7	13.8	14.4	14.2	14.8	15.3
	4H	14.7	15.3	15.1	15.7	16.1	14.2	14.7	14.6	15.2	15.6
	6H	14.7	15.1	15.1	15.6	16.1	14.2	14.7	14.7	15.1	15.6
	8H	14.6	15.0	15.1	15.5	16.0	14.1	14.6	14.6	15.0	15.5
	12H	14.6	14.9	15.1	15.4	15.9	14.1	14.5	14.6	15.0	15.5
8H	4H	14.7	15.1	15.1	15.6	16.0	14.2	14.6	14.7	15.1	15.6
	6H	14.6	15.0	15.2	15.5	16.0	14.2	14.6	14.7	15.1	15.5
	8H	14.6	14.9	15.2	15.4	15.9	14.2	14.5	14.7	15.0	15.5
	12H	14.6	14.9	15.1	15.4	15.9	14.2	14.4	14.7	14.9	15.5
12H	4H	14.6	15.0	15.1	15.5	16.0	14.1	14.5	14.6	15.0	15.5
	6H	14.6	14.9	15.1	15.4	15.9	14.2	14.5	14.7	14.9	15.5
	8H	14.6	14.8	15.1	15.3	15.9	14.2	14.4	14.7	14.9	15.5

Maximum UGR = 16.1

POLAR GRAPH



Maximum Candela = 7601.913 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)