



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AI3P33-4-L27-835-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Gen from UL 13320192.02

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 19-May-2020

[MANUFAC] H E Williams Inc

[LUMCAT] AI3P33-4-L27/835-S-DIM-UNV

[LUMINAIRE] Formed steel white housing with frosted lens

[LAMP] HLM LED

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

[MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	86.9
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.63 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	404	441	525
55	320	423	543
65	208	419	609
75	165	451	774
85	182	805	1424

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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	100.876	100.876	100.876	100.876	100.876
0.5	106.784	109.657	104.599	93.350	83.720
1.0	106.825	109.576	104.033	92.946	81.251
1.5	106.825	109.212	103.709	92.055	77.569
2.0	106.622	109.050	103.223	91.287	75.667
2.5	106.420	108.565	102.576	90.720	74.858
3.0	106.258	107.998	101.888	90.154	75.465
3.5	106.096	107.432	101.119	89.789	77.448
4.0	105.773	106.906	100.391	89.425	79.714
4.5	105.570	106.460	99.663	89.021	82.304
5.0	105.368	106.056	99.056	88.616	85.096
5.5	105.044	105.611	98.327	88.373	87.362
6.0	104.842	105.247	97.316	88.130	87.564
6.5	104.518	104.640	96.345	87.928	87.038
7.0	104.316	103.790	95.333	87.766	86.876
7.5	103.790	103.062	94.402	87.645	86.795
8.0	103.507	102.050	93.472	87.968	86.835
8.5	103.062	101.038	92.500	88.940	86.876
9.0	102.697	99.946	91.448	89.587	87.483
9.5	102.050	98.853	90.315	90.154	90.315
10.0	101.443	97.842	89.749	90.720	93.552
10.5	100.836	96.749	89.142	91.448	96.709
11.0	100.350	95.697	88.616	92.379	99.379
11.5	99.582	94.645	88.252	93.593	101.807
12.0	98.934	93.552	88.090	94.645	103.992
12.5	98.368	92.581	87.766	96.021	105.489
13.0	97.842	91.529	87.645	97.477	106.946
13.5	97.518	90.558	87.766	98.813	108.039
14.0	97.194	89.830	88.049	100.269	110.952
14.5	96.911	88.940	88.292	101.929	113.946
15.0	96.304	87.928	88.778	103.304	116.860
15.5	95.859	86.957	89.708	104.882	119.247
16.0	95.576	85.783	90.558	106.339	121.149
16.5	95.292	84.731	91.570	107.917	122.646
17.0	95.009	83.720	92.379	109.576	123.374
17.5	94.645	82.708	93.229	111.114	123.213
18.0	93.755	81.858	94.079	112.368	122.889
18.5	93.188	81.171	95.009	113.299	122.282
19.0	92.500	80.523	95.899	114.108	121.311
19.5	91.853	79.997	96.668	114.432	120.744
20.0	91.165	79.431	97.397	114.472	120.785
20.5	90.477	78.864	98.125	114.270	120.623
21.0	89.951	78.338	98.772	114.027	120.461
21.5	89.547	78.014	99.258	113.784	120.340
22.0	89.101	77.691	99.663	113.461	119.814
22.5	88.778	77.488	99.743	113.258	119.085
23.0	88.333	77.246	99.865	112.854	118.397
23.5	87.888	77.043	99.784	112.409	117.831
24.0	87.645	76.962	99.703	112.044	117.264
24.5	87.281	76.841	99.622	111.599	116.576
25.0	86.835	77.084	99.379	111.073	115.889
25.5	86.512	77.084	99.137	110.466	115.282
26.0	86.188	77.205	98.813	110.021	114.432
26.5	85.945	77.488	98.570	109.374	113.906

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**CANDELA TABULATION - (Cont.)**

27.0	85.824	77.731	98.206	109.010	113.177
27.5	85.703	78.095	97.882	108.443	112.611
28.0	85.500	78.298	97.397	107.917	111.923
28.5	85.055	78.379	97.032	107.513	111.316
29.0	84.650	78.459	96.628	106.784	110.547
29.5	84.205	78.500	96.223	106.137	109.698
30.0	83.882	78.662	95.778	105.408	108.929
30.5	83.477	78.905	95.373	104.640	108.281
31.0	83.153	79.147	94.807	103.830	107.472
31.5	82.830	79.431	94.159	103.062	106.663
32.0	82.506	79.592	93.552	102.293	105.934
32.5	81.980	79.552	92.905	101.443	105.044
33.0	81.778	79.633	92.258	100.593	104.316
33.5	81.332	79.754	91.610	99.824	103.507
34.0	81.090	79.673	90.922	99.015	102.859
34.5	80.928	79.592	90.073	98.165	102.212
35.0	80.685	79.350	89.223	97.397	101.322
35.5	80.523	79.107	88.373	96.668	100.593
36.0	80.240	78.824	87.564	95.778	99.865
36.5	79.916	78.500	86.714	95.009	99.056
37.0	79.673	78.014	85.864	94.159	98.327
37.5	79.390	77.569	85.096	93.391	97.518
38.0	79.107	76.962	84.205	92.541	96.709
38.5	78.824	76.234	83.517	91.813	96.061
39.0	78.581	75.587	82.668	90.963	95.131
39.5	78.136	74.777	81.858	90.154	94.402
40.0	77.326	73.968	80.968	89.425	93.755
40.5	76.558	73.078	80.159	88.575	92.946
41.0	75.546	72.188	79.309	87.766	92.217
41.5	74.494	71.297	78.379	86.957	91.448
42.0	73.361	70.326	77.610	86.188	90.760
42.5	72.228	69.355	76.639	85.379	90.032
43.0	71.136	68.303	75.870	84.570	89.304
43.5	70.003	67.413	75.061	83.841	88.575
44.0	68.829	66.361	74.170	83.032	87.928
44.5	67.575	65.390	73.401	82.263	87.159
45.0	66.361	64.378	72.511	81.535	86.350
45.5	65.268	63.366	71.702	80.725	85.622
46.0	64.095	62.395	70.893	79.916	84.853
46.5	63.002	61.424	70.003	79.188	84.286
47.0	61.910	60.413	69.274	78.419	83.477
47.5	60.736	59.441	68.384	77.610	82.668
48.0	59.603	58.470	67.534	76.922	81.980
48.5	58.511	57.459	66.765	76.193	81.251
49.0	57.418	56.488	65.916	75.425	80.564
49.5	56.164	55.557	65.106	74.656	79.916
50.0	54.909	54.586	64.378	73.968	79.147
50.5	53.696	53.574	63.528	73.199	78.459
51.0	52.522	52.563	62.759	72.471	77.893
51.5	51.349	51.632	61.950	71.702	77.084
52.0	50.135	50.701	61.141	71.014	76.355
52.5	48.880	49.690	60.291	70.205	75.748
53.0	47.666	48.719	59.522	69.517	75.061
53.5	46.453	47.869	58.794	68.829	74.413
54.0	45.198	46.979	58.025	68.020	73.725
54.5	43.903	45.967	57.216	67.372	73.037

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**CANDELA TABULATION - (Cont.)**

55.0	42.649	45.077	56.407	66.644	72.430
55.5	41.354	44.187	55.638	65.956	71.662
56.0	40.140	43.296	54.829	65.228	71.055
56.5	38.886	42.366	54.060	64.580	70.407
57.0	37.631	41.435	53.250	63.812	69.719
57.5	36.417	40.585	52.441	63.164	69.112
58.0	35.123	39.736	51.672	62.517	68.546
58.5	33.909	38.845	50.904	61.788	67.898
59.0	32.695	37.996	50.135	61.100	67.211
59.5	31.521	37.186	49.366	60.413	66.482
60.0	30.388	36.296	48.597	59.846	65.916
60.5	29.215	35.446	47.788	59.158	65.349
61.0	28.082	34.678	47.140	58.511	64.742
61.5	26.949	33.828	46.331	57.904	64.135
62.0	25.856	33.019	45.603	57.256	63.488
62.5	24.804	32.209	44.874	56.528	62.921
63.0	23.793	31.360	44.106	55.921	62.355
63.5	22.903	30.591	43.418	55.274	61.707
64.0	22.012	29.781	42.608	54.586	61.100
64.5	21.163	28.932	41.921	53.979	60.534
65.0	20.434	28.203	41.152	53.372	59.846
65.5	19.665	27.354	40.423	52.724	59.239
66.0	18.897	26.585	39.695	52.037	58.713
66.5	18.209	25.735	38.967	51.349	58.025
67.0	17.561	24.966	38.238	50.701	57.337
67.5	16.793	24.197	37.470	50.054	56.649
68.0	16.145	23.388	36.782	49.325	56.002
68.5	15.538	22.579	36.053	48.638	55.395
69.0	15.053	21.810	35.325	47.950	54.748
69.5	14.567	21.041	34.637	47.343	54.100
70.0	14.122	20.272	33.909	46.614	53.453
70.5	13.717	19.504	33.221	45.927	52.765
71.0	13.313	18.775	32.533	45.198	52.117
71.5	12.908	18.047	31.845	44.591	51.430
72.0	12.503	17.359	31.157	43.822	50.742
72.5	12.099	16.671	30.469	43.134	50.013
73.0	11.654	15.983	29.862	42.447	49.366
73.5	11.208	15.336	29.174	41.718	48.719
74.0	10.763	14.729	28.487	40.990	48.031
74.5	10.359	14.162	27.839	40.262	47.262
75.0	9.914	13.596	27.151	39.574	46.574
75.5	9.469	13.070	26.504	38.845	45.886
76.0	9.023	12.544	25.897	38.157	45.158
76.5	8.619	12.058	25.290	37.429	44.429
77.0	8.214	11.613	24.683	36.701	43.741
77.5	7.810	11.208	24.036	35.972	42.973
78.0	7.405	10.804	23.388	35.204	42.285
78.5	7.041	10.440	22.862	34.516	41.516
79.0	6.677	10.076	22.296	33.787	40.828
79.5	6.312	9.792	21.729	33.059	40.059
80.0	6.029	9.469	21.203	32.331	39.371
80.5	5.705	9.226	20.677	31.562	37.793
81.0	5.422	8.983	20.191	30.267	35.811
81.5	5.139	8.740	19.665	28.648	33.828
82.0	4.856	8.538	19.180	26.949	31.764
82.5	4.613	8.376	18.492	25.330	29.579

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**CANDELA TABULATION - (Cont.)**

83.0	4.370	8.214	17.845	23.752	27.435
83.5	4.208	8.052	17.116	22.579	26.423
84.0	4.006	7.971	16.550	22.538	27.313
84.5	3.844	7.931	16.307	23.348	28.406
85.0	3.682	8.012	16.307	24.238	28.851
85.5	3.561	8.093	16.509	24.602	28.891
86.0	3.520	8.214	16.793	24.481	28.810
86.5	3.439	8.336	16.752	23.752	27.394
87.0	3.359	8.416	16.631	22.417	25.169
87.5	3.399	8.659	16.590	21.365	23.550
88.0	3.439	9.711	17.359	21.891	23.955
88.5	3.480	10.804	18.735	24.562	27.475
89.0	3.723	12.746	20.879	27.961	30.955
89.5	5.746	16.064	23.388	30.955	33.949
90.0	10.521	20.596	26.302	34.030	37.186
90.5	14.769	29.013	29.822	37.308	40.626
91.0	20.920	69.719	34.273	40.423	43.499
91.5	30.469	134.826	39.533	43.903	46.533
92.0	42.163	210.291	46.250	48.435	50.337
92.5	53.493	309.872	55.516	54.262	55.112
93.0	65.632	383.557	74.373	61.626	61.465
93.5	78.298	438.224	126.935	72.956	69.881
94.0	91.206	477.474	221.985	91.165	83.517
94.5	104.194	526.030	345.359	116.819	103.223
95.0	117.224	603.316	479.497	162.503	130.941
95.5	130.294	690.718	597.652	246.182	172.740
96.0	143.606	787.427	702.048	369.718	252.818
96.5	156.272	863.095	797.948	510.654	373.117
97.0	169.341	921.363	903.963	644.185	519.152
97.5	182.775	967.896	1022.522	758.698	653.087
98.0	196.533	995.411	1138.654	872.401	771.242
98.5	210.655	1011.192	1253.571	990.960	879.685
99.0	224.453	1022.522	1373.749	1120.445	989.342
99.5	238.696	1041.136	1493.522	1262.473	1116.803
100.0	253.870	1060.963	1603.179	1418.664	1265.710
100.5	268.073	1077.149	1694.627	1574.450	1431.207
101.0	282.559	1094.143	1764.630	1714.455	1598.323
101.5	296.681	1114.375	1815.614	1831.800	1759.774
102.0	311.491	1132.989	1854.460	1929.318	1895.733
102.5	326.665	1148.770	1880.761	2030.882	2005.795
103.0	341.717	1162.932	1899.779	2127.996	2107.359
103.5	356.608	1175.071	1915.965	2215.398	2201.235
104.0	370.892	1186.401	1929.723	2284.186	2298.753
104.5	384.973	1198.540	1941.862	2333.552	2380.086
105.0	399.743	1211.489	1957.643	2367.137	2445.232
105.5	413.541	1223.628	1970.186	2388.988	2491.361
106.0	427.299	1236.172	1984.349	2405.173	2527.779
106.5	441.461	1248.311	1996.083	2420.549	2553.676
107.0	455.219	1260.045	2007.818	2435.926	2571.480
107.5	469.381	1271.780	2016.720	2450.897	2584.428
108.0	483.948	1283.110	2028.454	2466.274	2600.209
108.5	498.515	1295.653	2040.594	2480.031	2610.325
109.0	513.082	1306.983	2051.923	2492.575	2627.320
109.5	526.435	1317.504	2063.658	2503.096	2639.864
110.0	541.407	1328.429	2074.583	2513.616	2654.026
110.5	555.569	1338.950	2083.081	2525.755	2666.974

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**CANDELA TABULATION - (Cont.)**

111.0	566.899	1350.280	2090.364	2535.467	2678.709
111.5	580.657	1361.610	2097.648	2544.369	2690.443
112.0	594.414	1372.130	2104.122	2551.652	2702.583
112.5	606.958	1381.842	2108.978	2555.699	2713.508
113.0	620.311	1390.744	2115.047	2565.005	2719.577
113.5	634.069	1401.669	2119.093	2571.480	2725.647
114.0	647.422	1409.357	2125.972	2577.145	2733.335
114.5	661.584	1419.068	2130.828	2583.214	2734.144
115.0	676.151	1428.780	2137.302	2590.093	2737.382
115.5	689.100	1436.872	2142.967	2597.377	2744.260
116.0	702.858	1445.774	2147.418	2600.209	2749.116
116.5	715.806	1453.867	2153.892	2601.828	2759.637
117.0	729.564	1461.555	2159.962	2603.041	2762.065
117.5	741.703	1469.244	2165.627	2603.851	2772.585
118.0	755.056	1475.313	2173.315	2604.660	2775.418
118.5	768.409	1483.406	2175.338	2604.255	2777.845
119.0	781.358	1488.666	2181.003	2607.897	2776.632
119.5	794.306	1494.736	2186.264	2606.279	2775.013
120.0	807.254	1502.424	2189.501	2607.897	2773.799
120.5	820.203	1507.280	2193.142	2609.920	2767.729
121.0	832.342	1512.945	2197.998	2609.920	2765.302
121.5	846.100	1517.800	2200.426	2609.920	2766.111
122.0	858.644	1523.060	2203.663	2612.348	2762.065
122.5	869.973	1527.916	2207.305	2611.134	2761.255
123.0	883.327	1531.963	2209.733	2611.134	2761.660
123.5	894.252	1536.009	2213.779	2611.944	2766.516
124.0	905.986	1541.269	2214.588	2610.325	2767.325
124.5	917.721	1544.911	2217.825	2610.730	2768.134
125.0	928.241	1548.957	2218.635	2609.920	2765.302
125.5	940.381	1551.790	2219.849	2609.920	2760.446
126.0	950.092	1555.432	2219.849	2609.111	2755.186
126.5	961.826	1558.669	2217.421	2608.302	2748.711
127.0	971.133	1561.501	2219.444	2607.897	2743.451
127.5	983.677	1563.929	2219.444	2604.660	2738.191
128.0	992.579	1565.143	2220.253	2600.614	2734.954
128.5	1003.100	1569.594	2219.039	2601.828	2730.098
129.0	1015.643	1570.808	2218.230	2597.781	2726.861
129.5	1024.141	1574.450	2214.588	2595.353	2722.815
130.0	1033.852	1574.450	2212.160	2593.330	2717.150
130.5	1044.777	1574.854	2212.160	2589.284	2711.485
131.0	1054.084	1577.282	2209.733	2586.047	2703.392
131.5	1062.986	1576.877	2204.877	2582.000	2695.704
132.0	1073.102	1579.305	2202.044	2577.549	2685.992
132.5	1081.195	1580.115	2197.593	2570.266	2679.114
133.0	1090.502	1580.519	2192.738	2566.624	2667.784
133.5	1100.213	1579.710	2188.691	2558.936	2660.500
134.0	1107.901	1580.519	2183.431	2553.676	2651.194
134.5	1115.994	1581.328	2178.575	2545.583	2645.933
135.0	1123.682	1580.924	2173.720	2536.681	2639.054
135.5	1132.179	1579.710	2167.245	2529.397	2635.008
136.0	1139.868	1580.115	2161.985	2521.304	2625.701
136.5	1148.365	1579.305	2156.320	2514.021	2618.822
137.0	1156.053	1578.496	2150.251	2504.714	2612.753
137.5	1162.527	1578.901	2140.944	2495.408	2601.828
138.0	1170.215	1576.473	2132.042	2486.506	2592.926
138.5	1177.094	1577.282	2127.591	2476.390	2584.428

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

139.0	1185.592	1576.473	2118.689	2464.250	2571.884
139.5	1191.661	1574.854	2112.619	2455.348	2561.364
140.0	1199.754	1573.640	2104.526	2442.400	2548.820
140.5	1207.847	1573.640	2096.029	2433.498	2538.299
141.0	1214.321	1570.403	2089.555	2424.191	2527.779
141.5	1222.009	1571.213	2083.081	2412.457	2516.449
142.0	1229.293	1570.403	2075.797	2403.150	2502.286
142.5	1236.981	1567.571	2066.086	2391.415	2488.529
143.0	1243.050	1566.761	2058.802	2380.895	2478.817
143.5	1250.739	1565.143	2049.900	2369.565	2462.632
144.0	1258.427	1563.929	2042.212	2359.044	2449.683
144.5	1264.092	1562.715	2034.929	2347.310	2438.758
145.0	1271.375	1562.715	2027.645	2335.575	2425.405
145.5	1278.254	1561.097	2020.766	2325.459	2416.908
146.0	1285.538	1560.287	2010.650	2311.702	2405.173
146.5	1294.035	1558.264	2002.557	2301.181	2394.653
147.0	1298.486	1558.264	1994.060	2290.256	2382.918
147.5	1304.556	1556.241	1986.372	2278.926	2371.183
148.0	1311.434	1554.622	1978.279	2267.596	2358.235
148.5	1317.504	1554.218	1968.163	2255.052	2344.477
149.0	1326.001	1554.622	1958.857	2241.294	2331.529
149.5	1332.476	1554.218	1949.145	2228.751	2318.985
150.0	1337.331	1553.004	1941.052	2216.207	2302.395
150.5	1344.615	1550.576	1933.364	2203.663	2291.065
151.0	1350.280	1549.362	1922.439	2189.096	2276.093
151.5	1357.563	1548.957	1914.751	2175.743	2260.312
152.0	1361.610	1547.743	1903.826	2161.176	2245.341
152.5	1367.679	1548.148	1893.710	2147.014	2229.155
153.0	1374.153	1546.530	1885.212	2132.851	2211.351
153.5	1380.628	1544.506	1875.906	2117.070	2194.356
154.0	1385.483	1544.911	1864.576	2102.099	2176.957
154.5	1391.148	1545.316	1854.460	2087.532	2159.557
155.0	1395.599	1545.316	1845.558	2071.751	2141.349
155.5	1400.455	1543.697	1835.442	2056.779	2123.949
156.0	1405.311	1544.102	1826.135	2042.212	2106.145
156.5	1411.380	1542.483	1816.019	2024.408	2087.127
157.0	1415.022	1542.483	1805.498	2009.436	2069.728
157.5	1419.878	1542.888	1794.573	1994.465	2050.305
158.0	1424.329	1540.865	1784.862	1977.875	2033.715
158.5	1428.375	1541.269	1774.341	1963.308	2017.529
159.0	1430.803	1539.651	1763.416	1947.931	2000.130
159.5	1436.468	1539.651	1754.109	1932.960	1982.326
160.0	1438.896	1538.032	1745.207	1916.369	1965.735
160.5	1443.347	1538.437	1735.496	1899.375	1949.550
161.0	1446.988	1537.223	1726.189	1886.022	1934.578
161.5	1449.821	1537.223	1719.310	1869.836	1916.774
162.0	1453.867	1536.414	1710.004	1854.864	1899.375
162.5	1457.914	1535.604	1701.506	1839.488	1883.594
163.0	1461.151	1535.200	1693.009	1824.112	1865.385
163.5	1463.174	1534.795	1684.511	1807.117	1849.604
164.0	1466.816	1533.581	1674.800	1794.169	1829.777
164.5	1469.648	1533.176	1667.112	1778.388	1815.210
165.0	1472.481	1532.367	1658.210	1765.439	1796.192
165.5	1475.313	1532.367	1649.712	1752.086	1781.220
166.0	1478.550	1530.749	1642.024	1737.924	1765.035
166.5	1480.573	1530.749	1633.527	1726.998	1749.254

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

167.0	1482.192	1529.939	1625.839	1715.264	1735.496
167.5	1486.643	1529.130	1619.365	1702.315	1721.738
168.0	1489.071	1528.725	1610.462	1689.367	1707.171
168.5	1490.689	1528.321	1603.584	1678.037	1695.437
169.0	1493.117	1528.321	1596.705	1665.898	1680.870
169.5	1496.354	1527.107	1590.635	1653.354	1667.112
170.0	1497.568	1526.702	1584.161	1641.620	1654.163
170.5	1500.805	1525.488	1576.473	1629.885	1640.810
171.0	1503.233	1525.893	1571.213	1617.746	1629.076
171.5	1503.233	1525.488	1565.143	1606.821	1616.127
172.0	1507.280	1524.274	1559.478	1597.109	1603.584
172.5	1508.089	1523.870	1554.622	1585.780	1591.040
173.0	1510.112	1523.870	1550.981	1577.282	1580.115
173.5	1512.540	1524.679	1545.720	1569.189	1568.785
174.0	1512.135	1523.465	1541.674	1559.883	1558.669
174.5	1513.349	1523.060	1538.841	1553.408	1550.576
175.0	1516.182	1523.060	1536.414	1547.743	1540.865
175.5	1516.586	1522.656	1533.176	1540.460	1535.604
176.0	1517.396	1523.060	1531.153	1536.818	1530.344
176.5	1516.991	1522.251	1528.321	1533.581	1525.488
177.0	1518.205	1521.037	1527.107	1528.321	1520.228
177.5	1519.823	1521.847	1525.488	1526.702	1516.586
178.0	1518.205	1522.251	1523.465	1523.465	1514.158
178.5	1521.847	1521.442	1522.656	1522.251	1510.921
179.0	1519.419	1521.442	1523.060	1519.823	1510.517
179.5	1519.823	1521.847	1520.633	1519.419	1509.707
180.0	1519.014	1519.014	1519.014	1519.014	1519.014



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AI3P33-4-L27-835-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	36.67	N.A.	0.30
0-30	81.54	N.A.	0.80
0-40	137.26	N.A.	1.30
0-60	244.66	N.A.	2.30
0-80	313.84	N.A.	2.90
0-90	333.15	N.A.	3.10
10-90	324.00	N.A.	3.00
20-40	100.59	N.A.	0.90
20-50	157.49	N.A.	1.50
40-70	147.78	N.A.	1.40
60-80	69.18	N.A.	0.70
70-80	28.81	N.A.	0.30
80-90	19.31	N.A.	0.20
90-110	2264.05	N.A.	21.30
90-120	4209.89	N.A.	39.60
90-130	6049.58	N.A.	56.80
90-150	8852.12	N.A.	83.20
90-180	10308.52	N.A.	96.90
110-180	8044.47	N.A.	75.60
0-180	10641.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.15
10-20	27.52
20-30	44.87
30-40	55.72
40-50	56.90
50-60	50.51
60-70	40.37
70-80	28.81
80-90	19.31
90-100	496.52
100-110	1767.53
110-120	1945.84
120-130	1839.69
130-140	1580.36
140-150	1222.17
150-160	838.45
160-170	470.00
170-180	147.96

**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	162	162	162	162	139	139	139	139	97	97	97	58	58	58	22	22	22	5
1	147	140	134	129	126	121	116	111	84	81	78	50	49	47	19	19	18	4
2	134	122	113	105	114	105	98	91	73	69	65	44	41	39	17	16	15	3
3	122	107	96	87	104	92	83	76	64	59	54	39	36	33	15	14	13	3
4	111	94	82	73	95	81	71	64	57	51	46	34	31	28	13	12	11	2
5	102	84	71	62	87	72	62	54	51	44	39	30	27	24	12	10	9	2
6	93	74	62	53	80	64	54	46	45	38	33	27	23	21	10	9	8	2
7	86	67	54	46	73	58	47	40	41	34	29	25	21	18	9	8	7	2
8	79	60	48	40	68	52	42	35	37	30	25	22	18	16	9	7	6	1
9	73	54	43	35	63	47	37	31	33	27	22	20	16	14	8	6	5	1
10	68	49	38	31	58	43	33	27	30	24	20	18	15	12	7	6	5	1

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AI3P33-4-L27-835-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

Reflectances

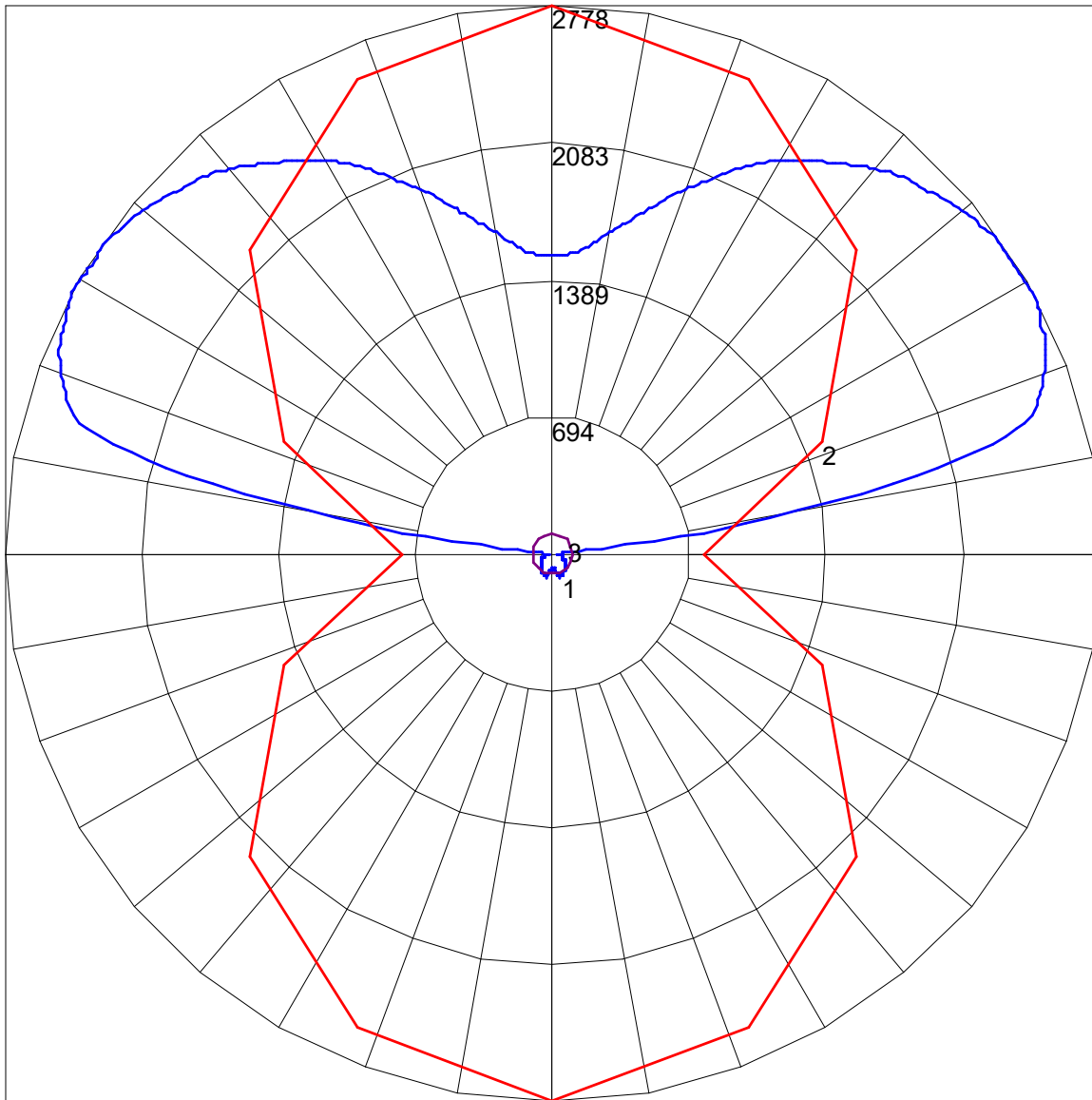
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	6.4	6.4	6.4	6.4	6.4	UGR Viewed Endwise	6.4	6.4	6.4	6.4	6.4
	3H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	4H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	6H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	8H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	12H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
4H	2H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	3H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	4H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	6H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	8H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	12H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
8H	4H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	6H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	8H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	12H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
12H	4H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	6H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	8H	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4

Maximum UGR = 6.4

POLAR GRAPH



Maximum Candela = 2777.845 Located At Horizontal Angle = 90, Vertical Angle = 118.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (118.5) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (0)