



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AI3P33-4-L16-835-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-L16/835-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	6313
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	52.6
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	239	262	312
55	190	251	322
65	123	248	361
75	98	268	459
85	108	477	845

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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	59.841	59.841	59.841	59.841	59.841
0.5	63.346	65.050	62.050	55.377	49.664
1.0	63.370	65.002	61.714	55.137	48.200
1.5	63.370	64.786	61.522	54.609	46.015
2.0	63.250	64.690	61.234	54.153	44.887
2.5	63.130	64.402	60.850	53.817	44.407
3.0	63.034	64.066	60.442	53.480	44.767
3.5	62.938	63.730	59.985	53.264	45.943
4.0	62.746	63.418	59.553	53.048	47.287
4.5	62.626	63.154	59.121	52.808	48.824
5.0	62.506	62.914	58.761	52.568	50.480
5.5	62.314	62.650	58.329	52.424	51.824
6.0	62.194	62.434	57.729	52.280	51.944
6.5	62.002	62.074	57.153	52.160	51.632
7.0	61.882	61.570	56.553	52.064	51.536
7.5	61.570	61.138	56.001	51.992	51.488
8.0	61.402	60.538	55.449	52.184	51.512
8.5	61.138	59.937	54.873	52.760	51.536
9.0	60.922	59.289	54.249	53.144	51.896
9.5	60.538	58.641	53.576	53.480	53.576
10.0	60.178	58.041	53.240	53.817	55.497
10.5	59.817	57.393	52.880	54.249	57.369
11.0	59.529	56.769	52.568	54.801	58.953
11.5	59.073	56.145	52.352	55.521	60.394
12.0	58.689	55.497	52.256	56.145	61.690
12.5	58.353	54.921	52.064	56.961	62.578
13.0	58.041	54.297	51.992	57.825	63.442
13.5	57.849	53.721	52.064	58.617	64.090
14.0	57.657	53.288	52.232	59.481	65.818
14.5	57.489	52.760	52.376	60.466	67.595
15.0	57.129	52.160	52.664	61.282	69.323
15.5	56.865	51.584	53.216	62.218	70.739
16.0	56.697	50.888	53.721	63.082	71.867
16.5	56.529	50.264	54.321	64.018	72.756
17.0	56.361	49.664	54.801	65.002	73.188
17.5	56.145	49.064	55.305	65.914	73.092
18.0	55.617	48.560	55.809	66.659	72.900
18.5	55.281	48.152	56.361	67.211	72.539
19.0	54.873	47.768	56.889	67.691	71.963
19.5	54.489	47.456	57.345	67.883	71.627
20.0	54.081	47.119	57.777	67.907	71.651
20.5	53.672	46.783	58.209	67.787	71.555
21.0	53.360	46.471	58.593	67.643	71.459
21.5	53.120	46.279	58.881	67.499	71.387
22.0	52.856	46.087	59.121	67.307	71.075
22.5	52.664	45.967	59.169	67.187	70.643
23.0	52.400	45.823	59.241	66.947	70.235
23.5	52.136	45.703	59.193	66.683	69.899
24.0	51.992	45.655	59.145	66.467	69.563
24.5	51.776	45.583	59.097	66.202	69.155
25.0	51.512	45.727	58.953	65.890	68.747
25.5	51.320	45.727	58.809	65.530	68.387
26.0	51.128	45.799	58.617	65.266	67.883
26.5	50.984	45.967	58.473	64.882	67.571

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CANDELA TABULATION - (Cont.)

27.0	50.912	46.111	58.257	64.666	67.139
27.5	50.840	46.327	58.065	64.330	66.803
28.0	50.720	46.447	57.777	64.018	66.395
28.5	50.456	46.495	57.561	63.778	66.034
29.0	50.216	46.543	57.321	63.346	65.578
29.5	49.952	46.567	57.081	62.962	65.074
30.0	49.760	46.663	56.817	62.530	64.618
30.5	49.520	46.807	56.577	62.074	64.234
31.0	49.328	46.951	56.241	61.594	63.754
31.5	49.136	47.119	55.857	61.138	63.274
32.0	48.944	47.215	55.497	60.682	62.842
32.5	48.632	47.191	55.113	60.178	62.314
33.0	48.512	47.239	54.729	59.673	61.882
33.5	48.248	47.311	54.345	59.217	61.402
34.0	48.104	47.263	53.937	58.737	61.018
34.5	48.008	47.215	53.432	58.233	60.634
35.0	47.864	47.071	52.928	57.777	60.106
35.5	47.768	46.927	52.424	57.345	59.673
36.0	47.600	46.759	51.944	56.817	59.241
36.5	47.408	46.567	51.440	56.361	58.761
37.0	47.263	46.279	50.936	55.857	58.329
37.5	47.095	46.015	50.480	55.401	57.849
38.0	46.927	45.655	49.952	54.897	57.369
38.5	46.759	45.223	49.544	54.465	56.985
39.0	46.615	44.839	49.040	53.961	56.433
39.5	46.351	44.359	48.560	53.480	56.001
40.0	45.871	43.879	48.032	53.048	55.617
40.5	45.415	43.351	47.552	52.544	55.137
41.0	44.815	42.823	47.047	52.064	54.705
41.5	44.191	42.295	46.495	51.584	54.249
42.0	43.519	41.719	46.039	51.128	53.841
42.5	42.847	41.143	45.463	50.648	53.408
43.0	42.199	40.518	45.007	50.168	52.976
43.5	41.527	39.990	44.527	49.736	52.544
44.0	40.830	39.366	43.999	49.256	52.160
44.5	40.086	38.790	43.543	48.800	51.704
45.0	39.366	38.190	43.015	48.368	51.224
45.5	38.718	37.590	42.535	47.888	50.792
46.0	38.022	37.014	42.055	47.408	50.336
46.5	37.374	36.438	41.527	46.975	50.000
47.0	36.726	35.838	41.095	46.519	49.520
47.5	36.030	35.262	40.566	46.039	49.040
48.0	35.358	34.685	40.062	45.631	48.632
48.5	34.709	34.085	39.606	45.199	48.200
49.0	34.061	33.509	39.102	44.743	47.792
49.5	33.317	32.957	38.622	44.287	47.408
50.0	32.573	32.381	38.190	43.879	46.951
50.5	31.853	31.781	37.686	43.423	46.543
51.0	31.157	31.181	37.230	42.991	46.207
51.5	30.461	30.629	36.750	42.535	45.727
52.0	29.741	30.077	36.270	42.127	45.295
52.5	28.997	29.477	35.766	41.647	44.935
53.0	28.276	28.901	35.310	41.239	44.527
53.5	27.556	28.396	34.878	40.830	44.143
54.0	26.812	27.868	34.421	40.350	43.735
54.5	26.044	27.268	33.941	39.966	43.327

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CANDELA TABULATION - (Cont.)

55.0	25.300	26.740	33.461	39.534	42.967
55.5	24.532	26.212	33.005	39.126	42.511
56.0	23.812	25.684	32.525	38.694	42.151
56.5	23.068	25.132	32.069	38.310	41.767
57.0	22.324	24.580	31.589	37.854	41.359
57.5	21.603	24.076	31.109	37.470	40.998
58.0	20.835	23.572	30.653	37.086	40.662
58.5	20.115	23.044	30.197	36.654	40.278
59.0	19.395	22.540	29.741	36.246	39.870
59.5	18.699	22.059	29.285	35.838	39.438
60.0	18.027	21.531	28.829	35.502	39.102
60.5	17.331	21.027	28.348	35.094	38.766
61.0	16.659	20.571	27.964	34.709	38.406
61.5	15.987	20.067	27.484	34.349	38.046
62.0	15.338	19.587	27.052	33.965	37.662
62.5	14.714	19.107	26.620	33.533	37.326
63.0	14.114	18.603	26.164	33.173	36.990
63.5	13.586	18.147	25.756	32.789	36.606
64.0	13.058	17.667	25.276	32.381	36.246
64.5	12.554	17.163	24.868	32.021	35.910
65.0	12.122	16.731	24.412	31.661	35.502
65.5	11.666	16.227	23.980	31.277	35.142
66.0	11.210	15.770	23.548	30.869	34.830
66.5	10.802	15.266	23.116	30.461	34.421
67.0	10.418	14.810	22.684	30.077	34.013
67.5	9.962	14.354	22.228	29.693	33.605
68.0	9.578	13.874	21.819	29.261	33.221
68.5	9.217	13.394	21.387	28.853	32.861
69.0	8.929	12.938	20.955	28.445	32.477
69.5	8.641	12.482	20.547	28.084	32.093
70.0	8.377	12.026	20.115	27.652	31.709
70.5	8.137	11.570	19.707	27.244	31.301
71.0	7.897	11.138	19.299	26.812	30.917
71.5	7.657	10.706	18.891	26.452	30.509
72.0	7.417	10.298	18.483	25.996	30.101
72.5	7.177	9.890	18.075	25.588	29.669
73.0	6.913	9.482	17.715	25.180	29.285
73.5	6.649	9.097	17.307	24.748	28.901
74.0	6.385	8.737	16.899	24.316	28.493
74.5	6.145	8.401	16.515	23.884	28.036
75.0	5.881	8.065	16.107	23.476	27.628
75.5	5.617	7.753	15.722	23.044	27.220
76.0	5.353	7.441	15.362	22.636	26.788
76.5	5.113	7.153	15.002	22.204	26.356
77.0	4.873	6.889	14.642	21.771	25.948
77.5	4.633	6.649	14.258	21.339	25.492
78.0	4.393	6.409	13.874	20.883	25.084
78.5	4.177	6.193	13.562	20.475	24.628
79.0	3.961	5.977	13.226	20.043	24.220
79.5	3.745	5.809	12.890	19.611	23.764
80.0	3.577	5.617	12.578	19.179	23.356
80.5	3.385	5.473	12.266	18.723	22.420
81.0	3.217	5.329	11.978	17.955	21.243
81.5	3.048	5.185	11.666	16.995	20.067
82.0	2.880	5.065	11.378	15.987	18.843
82.5	2.736	4.969	10.970	15.026	17.547

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CANDELA TABULATION - (Cont.)

83.0	2.592	4.873	10.586	14.090	16.275
83.5	2.496	4.777	10.154	13.394	15.674
84.0	2.376	4.729	9.818	13.370	16.203
84.5	2.280	4.705	9.674	13.850	16.851
85.0	2.184	4.753	9.674	14.378	17.115
85.5	2.112	4.801	9.794	14.594	17.139
86.0	2.088	4.873	9.962	14.522	17.091
86.5	2.040	4.945	9.938	14.090	16.251
87.0	1.992	4.993	9.866	13.298	14.930
87.5	2.016	5.137	9.842	12.674	13.970
88.0	2.040	5.761	10.298	12.986	14.210
88.5	2.064	6.409	11.114	14.570	16.299
89.0	2.208	7.561	12.386	16.587	18.363
89.5	3.409	9.530	13.874	18.363	20.139
90.0	6.241	12.218	15.602	20.187	22.059
90.5	8.761	17.211	17.691	22.132	24.100
91.0	12.410	41.359	20.331	23.980	25.804
91.5	18.075	79.981	23.452	26.044	27.604
92.0	25.012	124.748	27.436	28.733	29.861
92.5	31.733	183.821	32.933	32.189	32.693
93.0	38.934	227.532	44.119	36.558	36.462
93.5	46.447	259.961	75.300	43.279	41.455
94.0	54.105	283.245	131.685	54.081	49.544
94.5	61.810	312.049	204.872	69.299	61.234
95.0	69.539	357.897	284.445	96.399	77.676
95.5	77.292	409.745	354.536	146.039	102.472
96.0	85.189	467.114	416.466	219.323	149.976
96.5	92.703	512.001	473.355	302.928	221.339
97.0	100.456	546.567	536.245	382.140	307.969
97.5	108.425	574.171	606.576	450.071	387.421
98.0	116.586	590.493	675.467	517.522	457.512
98.5	124.964	599.855	743.638	587.853	521.843
99.0	133.149	606.576	814.929	664.665	586.893
99.5	141.598	617.618	885.980	748.919	662.505
100.0	150.600	629.380	951.031	841.573	750.839
100.5	159.025	638.981	1005.279	933.988	849.014
101.0	167.619	649.063	1046.806	1017.041	948.150
101.5	175.996	661.065	1077.050	1086.652	1043.925
102.0	184.781	672.106	1100.094	1144.501	1124.578
102.5	193.783	681.468	1115.697	1204.751	1189.868
103.0	202.712	689.869	1126.978	1262.360	1250.118
103.5	211.545	697.070	1136.580	1314.208	1305.807
104.0	220.019	703.791	1144.741	1355.014	1363.656
104.5	228.372	710.993	1151.942	1384.299	1411.903
105.0	237.134	718.674	1161.304	1404.222	1450.550
105.5	245.319	725.875	1168.745	1417.184	1477.914
106.0	253.480	733.316	1177.146	1426.786	1499.517
106.5	261.881	740.517	1184.107	1435.907	1514.880
107.0	270.043	747.478	1191.069	1445.029	1525.441
107.5	278.444	754.439	1196.349	1453.910	1533.123
108.0	287.085	761.160	1203.310	1463.032	1542.484
108.5	295.727	768.602	1210.512	1471.193	1548.485
109.0	304.368	775.323	1217.233	1478.634	1558.567
109.5	312.289	781.564	1224.194	1484.875	1566.008
110.0	321.171	788.045	1230.675	1491.116	1574.409
110.5	329.572	794.286	1235.716	1498.317	1582.090

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CANDELA TABULATION - (Cont.)

111.0	336.293	801.007	1240.036	1504.078	1589.051
111.5	344.455	807.728	1244.357	1509.359	1596.013
112.0	352.616	813.969	1248.198	1513.680	1603.214
112.5	360.057	819.730	1251.078	1516.080	1609.695
113.0	367.978	825.011	1254.679	1521.601	1613.295
113.5	376.140	831.492	1257.079	1525.441	1616.896
114.0	384.061	836.052	1261.160	1528.802	1621.457
114.5	392.462	841.813	1264.040	1532.403	1621.937
115.0	401.103	847.574	1267.881	1536.483	1623.857
115.5	408.785	852.375	1271.241	1540.804	1627.938
116.0	416.946	857.656	1273.882	1542.484	1630.818
116.5	424.627	862.456	1277.722	1543.444	1637.059
117.0	432.788	867.017	1281.323	1544.164	1638.499
117.5	439.990	871.578	1284.683	1544.644	1644.740
118.0	447.911	875.179	1289.244	1545.125	1646.421
118.5	455.832	879.979	1290.444	1544.885	1647.861
119.0	463.513	883.100	1293.805	1547.045	1647.141
119.5	471.195	886.700	1296.925	1546.085	1646.181
120.0	478.876	891.261	1298.846	1547.045	1645.460
120.5	486.557	894.142	1301.006	1548.245	1641.860
121.0	493.758	897.502	1303.886	1548.245	1640.420
121.5	501.919	900.382	1305.327	1548.245	1640.900
122.0	509.361	903.503	1307.247	1549.685	1638.499
122.5	516.082	906.383	1309.407	1548.965	1638.019
123.0	524.003	908.784	1310.847	1548.965	1638.259
123.5	530.484	911.184	1313.248	1549.445	1641.140
124.0	537.445	914.305	1313.728	1548.485	1641.620
124.5	544.406	916.465	1315.648	1548.725	1642.100
125.0	550.647	918.865	1316.128	1548.245	1640.420
125.5	557.848	920.546	1316.848	1548.245	1637.539
126.0	563.609	922.706	1316.848	1547.765	1634.419
126.5	570.570	924.626	1315.408	1547.285	1630.578
127.0	576.091	926.307	1316.608	1547.045	1627.458
127.5	583.532	927.747	1316.608	1545.125	1624.337
128.0	588.813	928.467	1317.088	1542.724	1622.417
128.5	595.054	931.107	1316.368	1543.444	1619.536
129.0	602.495	931.827	1315.888	1541.044	1617.616
129.5	607.536	933.988	1313.728	1539.604	1615.216
130.0	613.297	933.988	1312.288	1538.403	1611.855
130.5	619.778	934.228	1312.288	1536.003	1608.495
131.0	625.299	935.668	1310.847	1534.083	1603.694
131.5	630.580	935.428	1307.967	1531.682	1599.133
132.0	636.581	936.868	1306.287	1529.042	1593.372
132.5	641.382	937.348	1303.646	1524.721	1589.292
133.0	646.902	937.588	1300.766	1522.561	1582.570
133.5	652.663	937.108	1298.365	1518.000	1578.250
134.0	657.224	937.588	1295.245	1514.880	1572.729
134.5	662.025	938.068	1292.365	1510.079	1569.608
135.0	666.585	937.828	1289.484	1504.798	1565.528
135.5	671.626	937.108	1285.643	1500.477	1563.127
136.0	676.187	937.348	1282.523	1495.677	1557.607
136.5	681.228	936.868	1279.162	1491.356	1553.526
137.0	685.789	936.388	1275.562	1485.835	1549.925
137.5	689.629	936.628	1270.041	1480.314	1543.444
138.0	694.190	935.188	1264.760	1475.033	1538.163
138.5	698.271	935.668	1262.120	1469.032	1533.123

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CANDELA TABULATION - (Cont.)

139.0	703.311	935.188	1256.839	1461.831	1525.681
139.5	706.912	934.228	1253.238	1456.551	1519.440
140.0	711.713	933.508	1248.438	1448.869	1511.999
140.5	716.513	933.508	1243.397	1443.588	1505.758
141.0	720.354	931.587	1239.556	1438.068	1499.517
141.5	724.915	932.068	1235.716	1431.106	1492.796
142.0	729.235	931.587	1231.395	1425.586	1484.395
142.5	733.796	929.907	1225.634	1418.625	1476.234
143.0	737.397	929.427	1221.313	1412.384	1470.473
143.5	741.957	928.467	1216.032	1405.662	1460.871
144.0	746.518	927.747	1211.472	1399.421	1453.190
144.5	749.879	927.027	1207.151	1392.460	1446.709
145.0	754.199	927.027	1202.830	1385.499	1438.788
145.5	758.280	926.067	1198.750	1379.498	1433.747
146.0	762.601	925.586	1192.749	1371.337	1426.786
146.5	767.641	924.386	1187.948	1365.096	1420.545
147.0	770.282	924.386	1182.907	1358.615	1413.584
147.5	773.882	923.186	1178.346	1351.894	1406.623
148.0	777.963	922.226	1173.546	1345.173	1398.941
148.5	781.564	921.986	1167.545	1337.732	1390.780
149.0	786.604	922.226	1162.024	1329.570	1383.099
149.5	790.445	921.986	1156.263	1322.129	1375.658
150.0	793.326	921.266	1151.462	1314.688	1365.816
150.5	797.646	919.826	1146.902	1307.247	1359.095
151.0	801.007	919.105	1140.420	1298.606	1350.214
151.5	805.327	918.865	1135.860	1290.684	1340.852
152.0	807.728	918.145	1129.379	1282.043	1331.971
152.5	811.328	918.385	1123.378	1273.642	1322.369
153.0	815.169	917.425	1118.337	1265.240	1311.808
153.5	819.010	916.225	1112.816	1255.879	1301.726
154.0	821.890	916.465	1106.095	1246.997	1291.404
154.5	825.251	916.705	1100.094	1238.356	1281.083
155.0	827.891	916.705	1094.813	1228.995	1270.281
155.5	830.771	915.745	1088.812	1220.113	1259.959
156.0	833.652	915.985	1083.291	1211.472	1249.398
156.5	837.253	915.025	1077.290	1200.910	1238.116
157.0	839.413	915.025	1071.050	1192.029	1227.794
157.5	842.293	915.265	1064.568	1183.147	1216.272
158.0	844.934	914.065	1058.808	1173.306	1206.431
158.5	847.334	914.305	1052.567	1164.664	1196.829
159.0	848.774	913.345	1046.086	1155.543	1186.508
159.5	852.135	913.345	1040.565	1146.661	1175.946
160.0	853.575	912.384	1035.284	1136.820	1166.105
160.5	856.216	912.624	1029.523	1126.738	1156.503
161.0	858.376	911.904	1024.002	1118.817	1147.622
161.5	860.056	911.904	1019.921	1109.216	1137.060
162.0	862.456	911.424	1014.401	1100.334	1126.738
162.5	864.857	910.944	1009.360	1091.213	1117.377
163.0	866.777	910.704	1004.319	1082.091	1106.575
163.5	867.977	910.464	999.278	1072.010	1097.214
164.0	870.138	909.744	993.517	1064.328	1085.452
164.5	871.818	909.504	988.957	1054.967	1076.810
165.0	873.498	909.024	983.676	1047.286	1065.529
165.5	875.179	909.024	978.635	1039.364	1056.647
166.0	877.099	908.064	974.074	1030.963	1047.046
166.5	878.299	908.064	969.033	1024.482	1037.684

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	879.259	907.584	964.473	1017.521	1029.523
167.5	881.900	907.104	960.632	1009.840	1021.362
168.0	883.340	906.864	955.351	1002.159	1012.720
168.5	884.300	906.623	951.271	995.438	1005.759
169.0	885.740	906.623	947.190	988.236	997.118
169.5	887.660	905.903	943.589	980.795	988.957
170.0	888.381	905.663	939.749	973.834	981.275
170.5	890.301	904.943	935.188	966.873	973.354
171.0	891.741	905.183	932.068	959.672	966.393
171.5	891.741	904.943	928.467	953.191	958.712
172.0	894.142	904.223	925.106	947.430	951.271
172.5	894.622	903.983	922.226	940.709	943.829
173.0	895.822	903.983	920.066	935.668	937.348
173.5	897.262	904.463	916.945	930.867	930.627
174.0	897.022	903.743	914.545	925.346	924.626
174.5	897.742	903.503	912.864	921.506	919.826
175.0	899.422	903.503	911.424	918.145	914.065
175.5	899.662	903.263	909.504	913.825	910.944
176.0	900.142	903.503	908.304	911.664	907.824
176.5	899.902	903.023	906.623	909.744	904.943
177.0	900.623	902.303	905.903	906.623	901.823
177.5	901.583	902.783	904.943	905.663	899.662
178.0	900.623	903.023	903.743	903.743	898.222
178.5	902.783	902.543	903.263	903.023	896.302
179.0	901.343	902.543	903.503	901.583	896.062
179.5	901.583	902.783	902.063	901.343	895.582
180.0	901.103	901.103	901.103	901.103	901.103

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AI3P33-4-L16-835-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	21.75	N.A.	0.30
0-30	48.37	N.A.	0.80
0-40	81.42	N.A.	1.30
0-60	145.14	N.A.	2.30
0-80	186.18	N.A.	2.90
0-90	197.63	N.A.	3.10
10-90	192.20	N.A.	3.00
20-40	59.67	N.A.	0.90
20-50	93.42	N.A.	1.50
40-70	87.66	N.A.	1.40
60-80	41.04	N.A.	0.70
70-80	17.09	N.A.	0.30
80-90	11.45	N.A.	0.20
90-110	1343.07	N.A.	21.30
90-120	2497.37	N.A.	39.60
90-130	3588.71	N.A.	56.80
90-150	5251.21	N.A.	83.20
90-180	6115.17	N.A.	96.90
110-180	4772.1	N.A.	75.60
0-180	6312.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.43
10-20	16.33
20-30	26.62
30-40	33.05
40-50	33.75
50-60	29.96
60-70	23.95
70-80	17.09
80-90	11.45
90-100	294.54
100-110	1048.53
110-120	1154.3
120-130	1091.33
130-140	937.50
140-150	725.01
150-160	497.38
160-170	278.81
170-180	87.77

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AI3P33-4-L16-835-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	230	230	230	230	198	198	198	198	138	138	138	82	82	82	31	31	31	8
1	209	200	191	183	180	172	165	158	120	115	111	72	69	67	27	27	26	6
2	190	174	161	149	163	150	139	130	104	98	92	63	59	56	24	23	22	5
3	173	153	136	124	148	131	118	108	92	84	77	55	51	47	21	20	18	4
4	158	134	117	104	135	116	102	91	81	72	65	49	44	40	19	17	16	3
5	145	119	101	88	124	103	88	77	72	63	55	43	38	34	17	15	13	3
6	133	106	88	75	113	92	77	66	64	55	47	39	33	29	15	13	12	3
7	122	95	77	65	104	82	67	57	58	48	41	35	29	25	13	12	10	2
8	113	85	68	57	96	74	60	50	52	43	36	32	26	22	12	10	9	2
9	104	77	61	50	89	67	53	43	47	38	31	29	23	20	11	9	8	2
10	97	70	54	44	83	61	47	38	43	34	28	26	21	17	10	8	7	2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AI3P33-4-L16-835-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

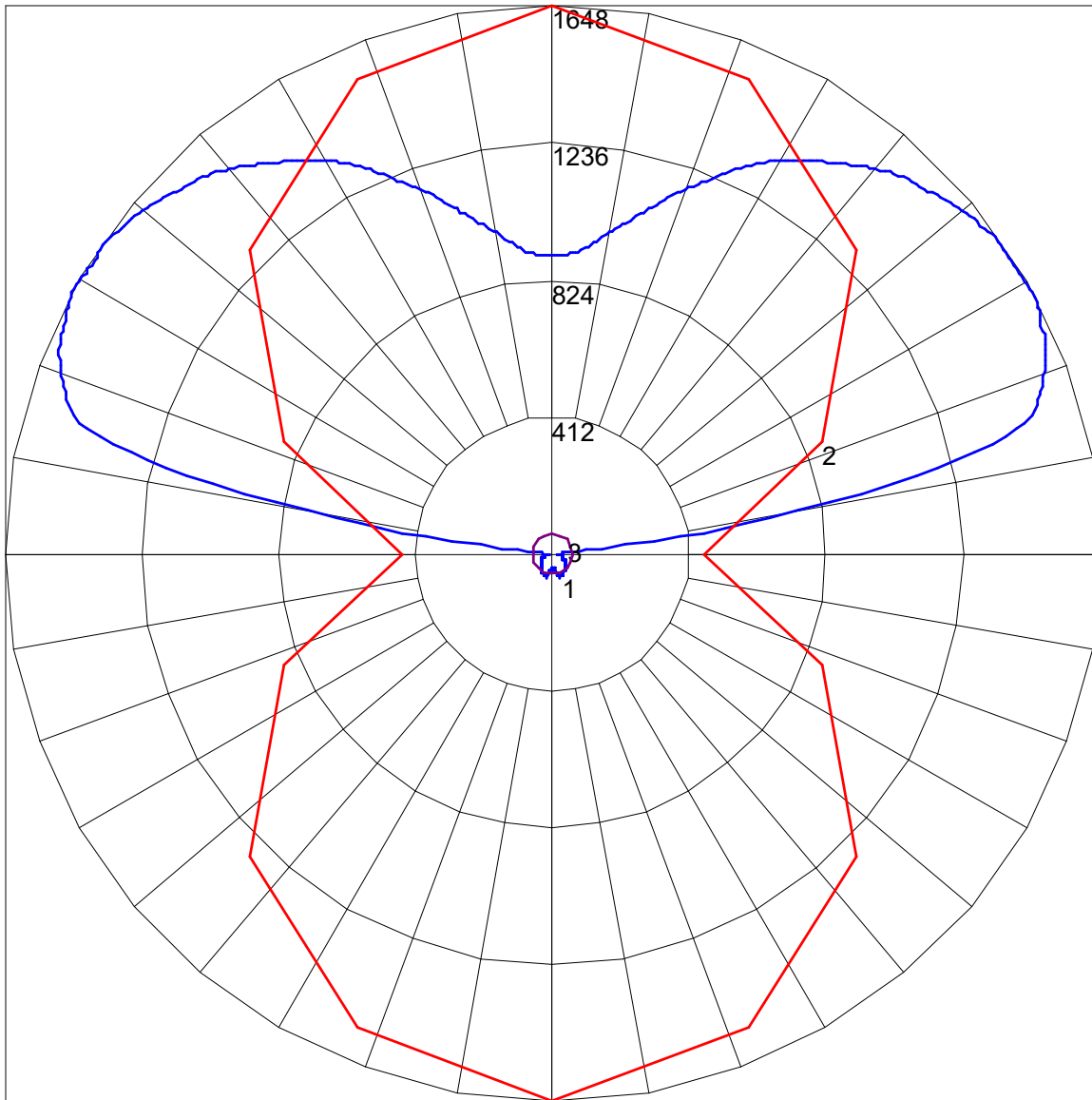
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	3.4	3.4	3.4	3.4	3.4	UGR Viewed Endwise				
	3H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	12H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
4H	2H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	3H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	12H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
8H	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	12H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
12H	4H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	6H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	8H	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4

Maximum UGR = 3.4

POLAR GRAPH



Maximum Candela = 1647.861 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)