



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AI3P33-4-L16-850-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Gen from UL 13320192.02  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 06-17-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 4' SUSPENDED LUMINAIRE  
 [MORE] FROST INNER LENS & WHITE PERFORATED BTM w/FROST OVERLAY  
 [LUMCAT] AI3P33-4-L16-850-S-DIM-UNV  
 [LAMPCAT] HLM 80 CRI, 5000K CCT  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] INDOOR, ARCHITECTURAL, EDUCATIONAL, INDIRECT  
 [SEARCH\_MOUNTING] SUSPENDED  
 [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	6856
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	260	284	338
55	206	273	350
65	134	270	392
75	106	291	499
85	117	519	917

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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	64.989	64.989	64.989	64.989	64.989
0.5	68.795	70.645	67.387	60.140	53.936
1.0	68.821	70.593	67.022	59.879	52.345
1.5	68.821	70.359	66.813	59.306	49.973
2.0	68.690	70.254	66.501	58.810	48.748
2.5	68.560	69.942	66.083	58.445	48.227
3.0	68.456	69.577	65.640	58.080	48.618
3.5	68.351	69.212	65.145	57.846	49.895
4.0	68.143	68.873	64.676	57.611	51.355
4.5	68.013	68.586	64.207	57.351	53.023
5.0	67.882	68.325	63.816	57.090	54.822
5.5	67.674	68.039	63.346	56.933	56.282
6.0	67.543	67.804	62.695	56.777	56.412
6.5	67.335	67.413	62.069	56.647	56.073
7.0	67.204	66.866	61.417	56.542	55.969
7.5	66.866	66.396	60.818	56.464	55.917
8.0	66.683	65.745	60.218	56.673	55.943
8.5	66.396	65.093	59.592	57.298	55.969
9.0	66.162	64.389	58.915	57.716	56.360
9.5	65.745	63.685	58.185	58.080	58.185
10.0	65.354	63.033	57.820	58.445	60.270
10.5	64.963	62.330	57.429	58.915	62.304
11.0	64.650	61.652	57.090	59.514	64.024
11.5	64.154	60.974	56.855	60.296	65.588
12.0	63.737	60.270	56.751	60.974	66.996
12.5	63.372	59.645	56.542	61.860	67.960
13.0	63.033	58.967	56.464	62.799	68.899
13.5	62.825	58.341	56.542	63.659	69.603
14.0	62.616	57.872	56.725	64.598	71.480
14.5	62.434	57.298	56.881	65.666	73.409
15.0	62.043	56.647	57.194	66.553	75.286
15.5	61.756	56.021	57.794	67.569	76.824
16.0	61.574	55.265	58.341	68.508	78.049
16.5	61.391	54.587	58.993	69.525	79.013
17.0	61.209	53.936	59.514	70.593	79.483
17.5	60.974	53.284	60.062	71.584	79.378
18.0	60.401	52.736	60.609	72.392	79.170
18.5	60.036	52.293	61.209	72.992	78.779
19.0	59.592	51.876	61.782	73.513	78.153
19.5	59.175	51.537	62.278	73.722	77.788
20.0	58.732	51.172	62.747	73.748	77.814
20.5	58.289	50.807	63.216	73.617	77.710
21.0	57.950	50.468	63.633	73.461	77.606
21.5	57.689	50.260	63.946	73.304	77.528
22.0	57.403	50.051	64.207	73.096	77.189
22.5	57.194	49.921	64.259	72.966	76.719
23.0	56.907	49.765	64.337	72.705	76.276
23.5	56.621	49.634	64.285	72.418	75.911
24.0	56.464	49.582	64.233	72.184	75.546
24.5	56.230	49.504	64.180	71.897	75.103
25.0	55.943	49.660	64.024	71.558	74.660
25.5	55.734	49.660	63.868	71.167	74.269
26.0	55.526	49.739	63.659	70.880	73.722
26.5	55.369	49.921	63.503	70.463	73.383

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**CANDELA TABULATION - (Cont.)**

27.0	55.291	50.077	63.268	70.228	72.913
27.5	55.213	50.312	63.060	69.863	72.548
28.0	55.083	50.442	62.747	69.525	72.105
28.5	54.796	50.495	62.512	69.264	71.714
29.0	54.535	50.547	62.251	68.795	71.219
29.5	54.248	50.573	61.991	68.378	70.672
30.0	54.040	50.677	61.704	67.908	70.176
30.5	53.779	50.833	61.443	67.413	69.759
31.0	53.571	50.990	61.078	66.892	69.238
31.5	53.362	51.172	60.661	66.396	68.716
32.0	53.154	51.277	60.270	65.901	68.247
32.5	52.815	51.251	59.853	65.354	67.674
33.0	52.684	51.303	59.436	64.806	67.204
33.5	52.398	51.381	59.019	64.311	66.683
34.0	52.241	51.329	58.576	63.789	66.266
34.5	52.137	51.277	58.028	63.242	65.849
35.0	51.980	51.120	57.481	62.747	65.275
35.5	51.876	50.964	56.933	62.278	64.806
36.0	51.694	50.781	56.412	61.704	64.337
36.5	51.485	50.573	55.865	61.209	63.816
37.0	51.329	50.260	55.317	60.661	63.346
37.5	51.146	49.973	54.822	60.166	62.825
38.0	50.964	49.582	54.248	59.619	62.304
38.5	50.781	49.113	53.805	59.149	61.886
39.0	50.625	48.696	53.258	58.602	61.287
39.5	50.338	48.174	52.736	58.080	60.818
40.0	49.817	47.653	52.163	57.611	60.401
40.5	49.321	47.080	51.642	57.064	59.879
41.0	48.670	46.506	51.094	56.542	59.410
41.5	47.992	45.933	50.495	56.021	58.915
42.0	47.262	45.307	49.999	55.526	58.472
42.5	46.532	44.681	49.374	55.004	58.002
43.0	45.828	44.004	48.878	54.483	57.533
43.5	45.098	43.430	48.357	54.014	57.064
44.0	44.342	42.752	47.783	53.492	56.647
44.5	43.534	42.127	47.288	52.997	56.151
45.0	42.752	41.475	46.715	52.528	55.630
45.5	42.048	40.823	46.193	52.007	55.161
46.0	41.292	40.198	45.672	51.485	54.666
46.5	40.589	39.572	45.098	51.016	54.301
47.0	39.885	38.920	44.629	50.521	53.779
47.5	39.129	38.295	44.056	49.999	53.258
48.0	38.399	37.669	43.508	49.556	52.815
48.5	37.695	37.017	43.013	49.087	52.345
49.0	36.991	36.392	42.465	48.592	51.902
49.5	36.183	35.792	41.944	48.096	51.485
50.0	35.375	35.166	41.475	47.653	50.990
50.5	34.593	34.515	40.927	47.158	50.547
51.0	33.837	33.863	40.432	46.689	50.182
51.5	33.081	33.263	39.911	46.193	49.660
52.0	32.299	32.664	39.389	45.750	49.191
52.5	31.491	32.012	38.842	45.229	48.800
53.0	30.709	31.386	38.347	44.786	48.357
53.5	29.927	30.839	37.877	44.342	47.940
54.0	29.118	30.265	37.382	43.821	47.497
54.5	28.284	29.614	36.861	43.404	47.054

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**CANDELA TABULATION - (Cont.)**

55.0	27.476	29.040	36.339	42.935	46.663
55.5	26.642	28.467	35.844	42.492	46.167
56.0	25.860	27.893	35.323	42.022	45.776
56.5	25.052	27.294	34.827	41.605	45.359
57.0	24.244	26.694	34.306	41.110	44.916
57.5	23.462	26.147	33.785	40.693	44.525
58.0	22.627	25.599	33.289	40.276	44.160
58.5	21.845	25.026	32.794	39.807	43.743
59.0	21.063	24.478	32.299	39.363	43.300
59.5	20.307	23.957	31.803	38.920	42.830
60.0	19.577	23.383	31.308	38.555	42.465
60.5	18.821	22.836	30.787	38.112	42.101
61.0	18.091	22.341	30.370	37.695	41.710
61.5	17.362	21.793	29.848	37.304	41.318
62.0	16.658	21.272	29.379	36.887	40.901
62.5	15.980	20.750	28.910	36.418	40.536
63.0	15.328	20.203	28.415	36.027	40.171
63.5	14.755	19.708	27.971	35.609	39.754
64.0	14.181	19.186	27.450	35.166	39.363
64.5	13.634	18.639	27.007	34.775	38.998
65.0	13.165	18.170	26.512	34.384	38.555
65.5	12.669	17.622	26.042	33.967	38.164
66.0	12.174	17.127	25.573	33.524	37.825
66.5	11.731	16.580	25.104	33.081	37.382
67.0	11.314	16.084	24.635	32.664	36.939
67.5	10.818	15.589	24.139	32.247	36.496
68.0	10.401	15.068	23.696	31.777	36.079
68.5	10.010	14.546	23.227	31.334	35.688
69.0	9.697	14.051	22.758	30.891	35.271
69.5	9.385	13.556	22.315	30.500	34.854
70.0	9.098	13.060	21.845	30.031	34.436
70.5	8.837	12.565	21.402	29.588	33.993
71.0	8.577	12.096	20.959	29.118	33.576
71.5	8.316	11.627	20.516	28.727	33.133
72.0	8.055	11.183	20.073	28.232	32.690
72.5	7.794	10.740	19.630	27.789	32.221
73.0	7.508	10.297	19.239	27.346	31.803
73.5	7.221	9.880	18.795	26.877	31.386
74.0	6.934	9.489	18.352	26.407	30.943
74.5	6.674	9.124	17.935	25.938	30.448
75.0	6.387	8.759	17.492	25.495	30.005
75.5	6.100	8.420	17.075	25.026	29.562
76.0	5.813	8.081	16.684	24.583	29.092
76.5	5.553	7.768	16.293	24.113	28.623
77.0	5.292	7.482	15.902	23.644	28.180
77.5	5.031	7.221	15.485	23.175	27.685
78.0	4.771	6.960	15.068	22.680	27.242
78.5	4.536	6.726	14.729	22.236	26.746
79.0	4.301	6.491	14.364	21.767	26.303
79.5	4.067	6.309	13.999	21.298	25.808
80.0	3.884	6.100	13.660	20.829	25.365
80.5	3.676	5.944	13.321	20.333	24.348
81.0	3.493	5.787	13.008	19.499	23.071
81.5	3.311	5.631	12.669	18.456	21.793
82.0	3.128	5.500	12.356	17.362	20.464
82.5	2.972	5.396	11.913	16.319	19.056

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**CANDELA TABULATION - (Cont.)**

83.0	2.815	5.292	11.496	15.302	17.674
83.5	2.711	5.188	11.027	14.546	17.023
84.0	2.581	5.135	10.662	14.520	17.596
84.5	2.477	5.109	10.506	15.041	18.300
85.0	2.372	5.162	10.506	15.615	18.587
85.5	2.294	5.214	10.636	15.850	18.613
86.0	2.268	5.292	10.818	15.771	18.561
86.5	2.216	5.370	10.792	15.302	17.648
87.0	2.164	5.422	10.714	14.442	16.215
87.5	2.190	5.579	10.688	13.764	15.172
88.0	2.216	6.256	11.183	14.103	15.433
88.5	2.242	6.960	12.070	15.824	17.700
89.0	2.398	8.212	13.451	18.013	19.942
89.5	3.702	10.349	15.068	19.942	21.871
90.0	6.778	13.269	16.944	21.924	23.957
90.5	9.515	18.691	19.212	24.035	26.173
91.0	13.477	44.916	22.080	26.042	28.024
91.5	19.630	86.860	25.469	28.284	29.979
92.0	27.163	135.478	29.796	31.204	32.429
92.5	34.462	199.632	35.766	34.958	35.505
93.0	42.283	247.103	47.914	39.702	39.598
93.5	50.442	282.321	81.777	47.001	45.020
94.0	58.758	307.608	143.011	58.732	53.805
94.5	67.126	338.890	222.494	75.260	66.501
95.0	75.520	388.680	308.911	104.691	84.357
95.5	83.940	444.988	385.031	158.600	111.286
96.0	92.517	507.292	452.287	238.187	162.876
96.5	100.676	556.040	514.070	328.984	240.377
97.0	109.096	593.578	582.369	415.010	334.458
97.5	117.751	623.557	658.749	488.783	420.745
98.0	126.614	641.284	733.566	562.036	496.864
98.5	135.712	651.450	807.600	638.416	566.728
99.0	144.602	658.749	885.024	721.835	637.373
99.5	153.778	670.741	962.186	813.335	719.489
100.0	163.553	683.514	1032.832	913.959	815.421
100.5	172.703	693.942	1091.746	1014.323	922.041
101.0	182.036	704.891	1136.845	1104.520	1029.703
101.5	191.134	717.925	1169.691	1180.118	1133.716
102.0	200.675	729.916	1194.717	1242.943	1221.306
102.5	210.451	740.083	1211.661	1308.375	1292.213
103.0	220.148	749.207	1223.913	1370.939	1357.644
103.5	229.741	757.027	1234.341	1427.247	1418.123
104.0	238.943	764.327	1243.204	1471.563	1480.948
104.5	248.015	772.147	1251.024	1503.367	1533.346
105.0	257.530	780.489	1261.191	1525.004	1575.316
105.5	266.419	788.310	1269.272	1539.081	1605.034
106.0	275.283	796.391	1278.396	1549.508	1628.495
106.5	284.407	804.211	1285.956	1559.414	1645.179
107.0	293.270	811.771	1293.516	1569.320	1656.649
107.5	302.394	819.331	1299.251	1578.965	1664.991
108.0	311.779	826.630	1306.811	1588.871	1675.158
108.5	321.163	834.711	1314.631	1597.735	1681.675
109.0	330.548	842.011	1321.931	1605.816	1692.624
109.5	339.150	848.788	1329.490	1612.594	1700.705
110.0	348.796	855.827	1336.529	1619.371	1709.829
110.5	357.920	862.605	1342.003	1627.192	1718.171

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**CANDELA TABULATION - (Cont.)**

111.0	365.219	869.904	1346.696	1633.448	1725.731
111.5	374.082	877.203	1351.388	1639.183	1733.291
112.0	382.945	883.981	1355.559	1643.876	1741.111
112.5	391.027	890.237	1358.687	1646.483	1748.150
113.0	399.629	895.972	1362.597	1652.478	1752.060
113.5	408.492	903.011	1365.204	1656.649	1755.970
114.0	417.095	907.964	1369.636	1660.299	1760.923
114.5	426.219	914.220	1372.764	1664.209	1761.444
115.0	435.604	920.477	1376.935	1668.641	1763.530
115.5	443.946	925.690	1380.585	1673.333	1767.962
116.0	452.809	931.425	1383.452	1675.158	1771.090
116.5	461.151	936.639	1387.623	1676.201	1777.868
117.0	470.014	941.592	1391.533	1676.983	1779.432
117.5	477.834	946.545	1395.183	1677.504	1786.209
118.0	486.437	950.455	1400.136	1678.025	1788.034
118.5	495.040	955.669	1401.439	1677.765	1789.598
119.0	503.382	959.058	1405.089	1680.111	1788.816
119.5	511.723	962.968	1408.478	1679.068	1787.774
120.0	520.065	967.921	1410.563	1680.111	1786.992
120.5	528.407	971.049	1412.909	1681.414	1783.081
121.0	536.228	974.699	1416.038	1681.414	1781.517
121.5	545.091	977.827	1417.602	1681.414	1782.039
122.0	553.172	981.216	1419.687	1682.978	1779.432
122.5	560.471	984.344	1422.033	1682.196	1778.910
123.0	569.074	986.951	1423.597	1682.196	1779.171
123.5	576.113	989.558	1426.204	1682.718	1782.299
124.0	583.672	992.947	1426.726	1681.675	1782.821
124.5	591.232	995.293	1428.811	1681.936	1783.342
125.0	598.010	997.900	1429.333	1681.414	1781.517
125.5	605.831	999.725	1430.115	1681.414	1778.389
126.0	612.087	1002.071	1430.115	1680.893	1775.000
126.5	619.647	1004.156	1428.550	1680.372	1770.829
127.0	625.643	1005.981	1429.854	1680.111	1767.440
127.5	633.724	1007.545	1429.854	1678.025	1764.051
128.0	639.459	1008.327	1430.375	1675.419	1761.966
128.5	646.237	1011.195	1429.593	1676.201	1758.838
129.0	654.318	1011.977	1429.072	1673.594	1756.752
129.5	659.792	1014.323	1426.726	1672.030	1754.145
130.0	666.049	1014.323	1425.162	1670.726	1750.496
130.5	673.087	1014.584	1425.162	1668.119	1746.846
131.0	679.083	1016.148	1423.597	1666.034	1741.632
131.5	684.818	1015.887	1420.469	1663.427	1736.679
132.0	691.335	1017.451	1418.644	1660.560	1730.423
132.5	696.549	1017.973	1415.777	1655.867	1725.991
133.0	702.544	1018.233	1412.649	1653.521	1718.692
133.5	708.801	1017.712	1410.042	1648.568	1714.000
134.0	713.754	1018.233	1406.653	1645.179	1708.004
134.5	718.968	1018.755	1403.525	1639.966	1704.615
135.0	723.921	1018.494	1400.397	1634.230	1700.184
135.5	729.395	1017.712	1396.226	1629.538	1697.577
136.0	734.348	1017.973	1392.837	1624.324	1691.581
136.5	739.822	1017.451	1389.187	1619.632	1687.149
137.0	744.775	1016.930	1385.277	1613.636	1683.239
137.5	748.946	1017.191	1379.281	1607.641	1676.201
138.0	753.899	1015.626	1373.546	1601.906	1670.466
138.5	758.331	1016.148	1370.679	1595.388	1664.991

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

139.0	763.805	1015.626	1364.943	1587.568	1656.910
139.5	767.716	1014.584	1361.033	1581.833	1650.132
140.0	772.929	1013.802	1355.820	1573.491	1642.051
140.5	778.143	1013.802	1350.345	1567.756	1635.273
141.0	782.314	1011.716	1346.174	1561.760	1628.495
141.5	787.267	1012.238	1342.003	1554.200	1621.196
142.0	791.959	1011.716	1337.311	1548.205	1612.072
142.5	796.912	1009.891	1331.055	1540.645	1603.209
143.0	800.822	1009.370	1326.362	1533.867	1596.953
143.5	805.775	1008.327	1320.627	1526.568	1586.525
144.0	810.728	1007.545	1315.674	1519.790	1578.183
144.5	814.378	1006.763	1310.982	1512.230	1571.145
145.0	819.070	1006.763	1306.290	1504.670	1562.542
145.5	823.502	1005.720	1301.858	1498.153	1557.068
146.0	828.194	1005.199	1295.341	1489.290	1549.508
146.5	833.669	1003.896	1290.127	1482.512	1542.730
147.0	836.536	1003.896	1284.653	1475.474	1535.170
147.5	840.446	1002.592	1279.700	1468.175	1527.611
148.0	844.878	1001.549	1274.486	1460.875	1519.269
148.5	848.788	1001.289	1267.969	1452.794	1510.405
149.0	854.263	1001.549	1261.973	1443.931	1502.063
149.5	858.434	1001.289	1255.717	1435.850	1493.982
150.0	861.562	1000.507	1250.503	1427.768	1483.294
150.5	866.254	998.943	1245.550	1419.687	1475.995
151.0	869.904	998.161	1238.512	1410.303	1466.350
151.5	874.596	997.900	1233.559	1401.700	1456.183
152.0	877.203	997.118	1226.520	1392.315	1446.538
152.5	881.113	997.378	1220.003	1383.191	1436.110
153.0	885.284	996.336	1214.529	1374.067	1424.640
153.5	889.455	995.032	1208.533	1363.901	1413.691
154.0	892.583	995.293	1201.234	1354.255	1402.482
154.5	896.233	995.554	1194.717	1344.871	1391.273
155.0	899.100	995.554	1188.982	1334.704	1379.542
155.5	902.229	994.511	1182.464	1325.059	1368.332
156.0	905.357	994.772	1176.469	1315.674	1356.862
156.5	909.267	993.729	1169.952	1304.204	1344.610
157.0	911.613	993.729	1163.174	1294.559	1333.401
157.5	914.742	993.990	1156.135	1284.913	1320.888
158.0	917.609	992.686	1149.879	1274.225	1310.200
158.5	920.216	992.947	1143.101	1264.841	1299.772
159.0	921.780	991.904	1136.063	1254.935	1288.563
159.5	925.430	991.904	1130.067	1245.289	1277.093
160.0	926.994	990.861	1124.332	1234.601	1266.405
160.5	929.861	991.122	1118.075	1223.653	1255.977
161.0	932.207	990.340	1112.080	1215.050	1246.332
161.5	934.032	990.340	1107.648	1204.623	1234.862
162.0	936.639	989.819	1101.652	1194.977	1223.653
162.5	939.246	989.297	1096.178	1185.071	1213.486
163.0	941.331	989.037	1090.704	1175.165	1201.755
163.5	942.635	988.776	1085.229	1164.217	1191.588
164.0	944.981	987.994	1078.973	1155.875	1178.815
164.5	946.806	987.733	1074.020	1145.708	1169.430
165.0	948.631	987.212	1068.285	1137.366	1157.178
165.5	950.455	987.212	1062.810	1128.763	1147.533
166.0	952.541	986.169	1057.857	1119.639	1137.105
166.5	953.844	986.169	1052.383	1112.601	1126.939

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

167.0	954.887	985.648	1047.430	1105.041	1118.075
167.5	957.754	985.126	1043.259	1096.699	1109.212
168.0	959.319	984.866	1037.524	1088.357	1099.827
168.5	960.361	984.605	1033.092	1081.058	1092.268
169.0	961.925	984.605	1028.661	1073.238	1082.883
169.5	964.011	983.823	1024.750	1065.156	1074.020
170.0	964.793	983.562	1020.579	1057.597	1065.678
170.5	966.878	982.780	1015.626	1050.037	1057.075
171.0	968.443	983.041	1012.238	1042.216	1049.515
171.5	968.443	982.780	1008.327	1035.178	1041.173
172.0	971.049	981.998	1004.678	1028.921	1033.092
172.5	971.571	981.737	1001.549	1021.622	1025.011
173.0	972.874	981.737	999.203	1016.148	1017.973
173.5	974.438	982.259	995.814	1010.934	1010.673
174.0	974.178	981.477	993.208	1004.938	1004.156
174.5	974.960	981.216	991.383	1000.767	998.943
175.0	976.784	981.216	989.819	997.118	992.686
175.5	977.045	980.955	987.733	992.425	989.297
176.0	977.566	981.216	986.430	990.079	985.908
176.5	977.306	980.695	984.605	987.994	982.780
177.0	978.088	979.913	983.823	984.605	979.391
177.5	979.131	980.434	982.780	983.562	977.045
178.0	978.088	980.695	981.477	981.477	975.481
178.5	980.434	980.173	980.955	980.695	973.396
179.0	978.870	980.173	981.216	979.131	973.135
179.5	979.131	980.434	979.652	978.870	972.613
180.0	978.609	978.609	978.609	978.609	978.609



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

Zone	Lumens	%Lamp	%Fixt
0-20	23.62	N.A.	0.30
0-30	52.53	N.A.	0.80
0-40	88.43	N.A.	1.30
0-60	157.62	N.A.	2.30
0-80	202.19	N.A.	2.90
0-90	214.63	N.A.	3.10
10-90	208.74	N.A.	3.00
20-40	64.80	N.A.	0.90
20-50	101.46	N.A.	1.50
40-70	95.20	N.A.	1.40
60-80	44.57	N.A.	0.70
70-80	18.56	N.A.	0.30
80-90	12.44	N.A.	0.20
90-110	1458.59	N.A.	21.30
90-120	2712.18	N.A.	39.60
90-130	3897.38	N.A.	56.80
90-150	5702.88	N.A.	83.20
90-180	6641.16	N.A.	96.90
110-180	5182.57	N.A.	75.60
0-180	6855.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	5.89
10-20	17.73
20-30	28.91
30-40	35.89
40-50	36.66
50-60	32.54
60-70	26.01
70-80	18.56
80-90	12.44
90-100	319.88
100-110	1138.72
110-120	1253.59
120-130	1185.2
130-140	1018.13
140-150	787.37
150-160	540.16
160-170	302.80
170-180	95.32

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AI3P33-4-L16-850-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	96	96	96	96	82	82	82	82	57	57	57	34	34	34	13	13	13	3
1	87	83	80	76	75	72	69	66	50	48	46	30	29	28	11	11	11	3
2	79	73	67	62	68	62	58	54	44	41	38	26	25	23	10	9	9	2
3	72	64	57	51	62	55	49	45	38	35	32	23	21	20	9	8	8	2
4	66	56	49	43	56	48	42	38	34	30	27	20	18	17	8	7	6	1
5	60	50	42	37	51	43	37	32	30	26	23	18	16	14	7	6	6	1
6	55	44	37	31	47	38	32	27	27	23	20	16	14	12	6	5	5	1
7	51	40	32	27	43	34	28	24	24	20	17	15	12	11	6	5	4	1
8	47	36	28	24	40	31	25	21	22	18	15	13	11	9	5	4	4	1
9	43	32	25	21	37	28	22	18	20	16	13	12	10	8	5	4	3	1
10	40	29	23	18	35	25	20	16	18	14	12	11	9	7	4	3	3	1

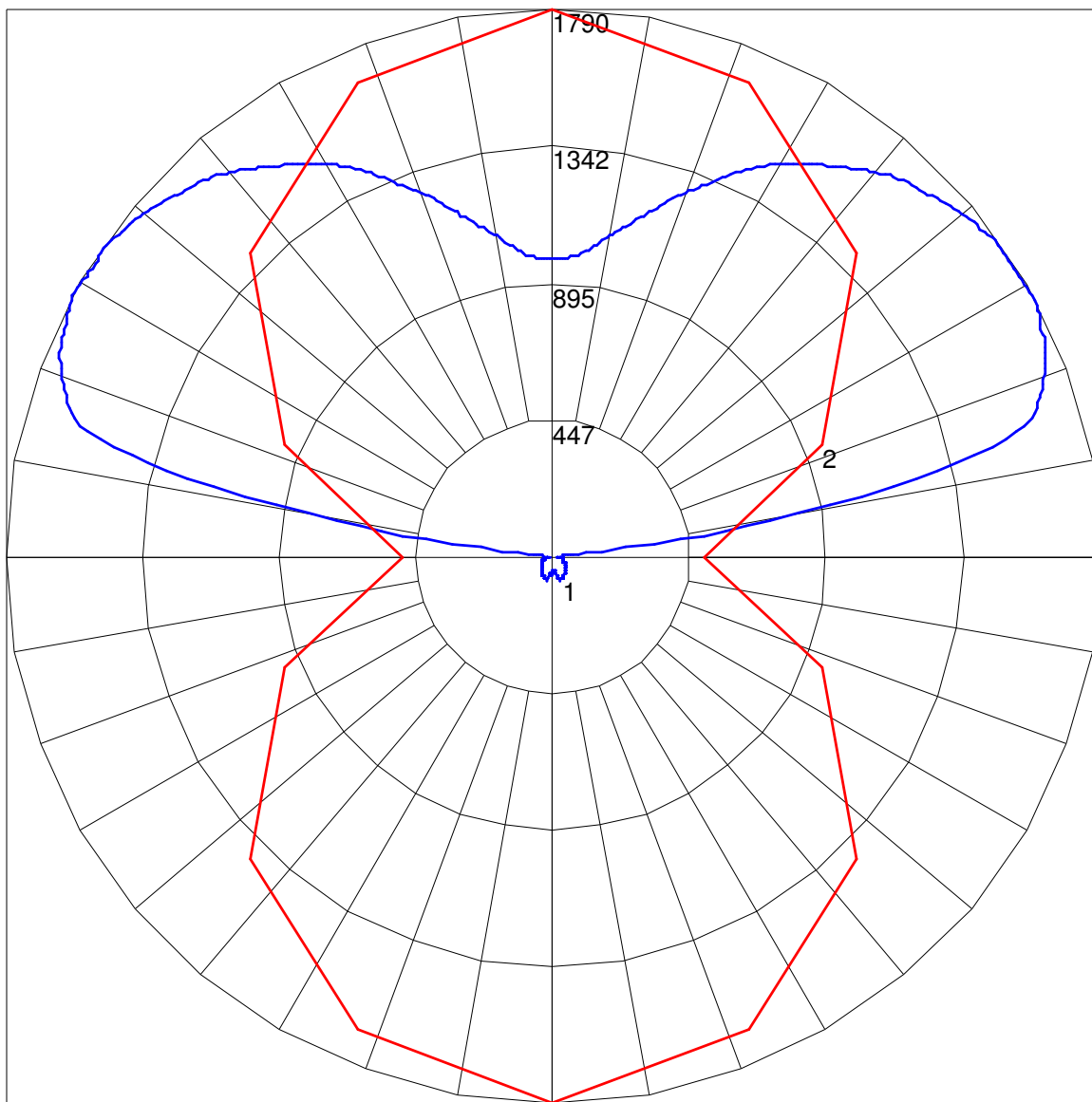
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AI3P33-4-L16-850-DIM-UNV\_.IES**

**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					UGR Viewed Endwise				
X=2H	Y=2H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	3H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	4H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	6H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	8H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	12H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
4H	2H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	3H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	4H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	6H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	8H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	12H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
8H	4H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	6H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	8H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	12H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
12H	4H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	6H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	8H	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

Maximum UGR = 6.7

POLAR GRAPH



Maximum Candela = 1789.598 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.)