



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AI3P33-8-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] AI3P33-8-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	21283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	173.8
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)	8.00 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	201.753	201.753	201.753	201.753	201.753
0.5	213.568	219.314	209.198	186.700	167.440
1.0	213.649	219.152	208.065	185.891	162.503
1.5	213.649	218.424	207.418	184.111	155.139
2.0	213.245	218.100	206.447	182.573	151.335
2.5	212.840	217.129	205.152	181.440	149.716
3.0	212.516	215.996	203.776	180.307	150.930
3.5	212.193	214.863	202.238	179.579	154.896
4.0	211.545	213.811	200.782	178.850	159.428
4.5	211.141	212.921	199.325	178.041	164.607
5.0	210.736	212.112	198.111	177.232	170.191
5.5	210.088	211.221	196.654	176.746	174.723
6.0	209.684	210.493	194.631	176.261	175.128
6.5	209.036	209.279	192.689	175.856	174.076
7.0	208.632	207.580	190.666	175.532	173.752
7.5	207.580	206.123	188.804	175.290	173.590
8.0	207.013	204.100	186.943	175.937	173.671
8.5	206.123	202.077	185.001	177.879	173.752
9.0	205.395	199.892	182.897	179.174	174.966
9.5	204.100	197.707	180.631	180.307	180.631
10.0	202.886	195.683	179.498	181.440	187.105
10.5	201.672	193.498	178.284	182.897	193.417
11.0	200.701	191.394	177.232	184.758	198.759
11.5	199.163	189.290	176.503	187.186	203.614
12.0	197.868	187.105	176.180	189.290	207.984
12.5	196.735	185.163	175.532	192.042	210.979
13.0	195.683	183.059	175.290	194.955	213.892
13.5	195.036	181.116	175.532	197.626	216.077
14.0	194.388	179.660	176.099	200.539	221.904
14.5	193.822	177.879	176.584	203.857	227.893
15.0	192.608	175.856	177.555	206.609	233.719
15.5	191.718	173.914	179.417	209.765	238.494
16.0	191.151	171.567	181.116	212.678	242.298
16.5	190.585	169.463	183.140	215.834	245.292
17.0	190.018	167.440	184.758	219.152	246.749
17.5	189.290	165.416	186.458	222.228	246.425
18.0	187.510	163.717	188.157	224.736	245.778
18.5	186.377	162.341	190.018	226.598	244.564
19.0	185.001	161.046	191.799	228.216	242.621
19.5	183.706	159.994	193.336	228.864	241.488
20.0	182.330	158.861	194.793	228.945	241.569
20.5	180.954	157.728	196.250	228.540	241.246
21.0	179.902	156.676	197.545	228.054	240.922
21.5	179.093	156.029	198.516	227.569	240.679
22.0	178.203	155.381	199.325	226.921	239.627
22.5	177.555	154.977	199.487	226.517	238.170
23.0	176.665	154.491	199.730	225.708	236.795
23.5	175.775	154.086	199.568	224.817	235.662
24.0	175.290	153.925	199.406	224.089	234.529
24.5	174.561	153.682	199.244	223.199	233.153
25.0	173.671	154.167	198.759	222.147	231.777
25.5	173.024	154.167	198.273	220.933	230.563
26.0	172.376	154.410	197.626	220.043	228.864
26.5	171.891	154.977	197.140	218.748	227.812

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CANDELA TABULATION - (Cont.)

27.0	171.648	155.462	196.412	218.019	226.355
27.5	171.405	156.191	195.764	216.886	225.222
28.0	171.000	156.595	194.793	215.834	223.846
28.5	170.110	156.757	194.065	215.025	222.632
29.0	169.301	156.919	193.255	213.568	221.095
29.5	168.411	157.000	192.446	212.273	219.395
30.0	167.763	157.324	191.556	210.817	217.858
30.5	166.954	157.809	190.747	209.279	216.563
31.0	166.307	158.295	189.614	207.661	214.944
31.5	165.659	158.861	188.319	206.123	213.326
32.0	165.012	159.185	187.105	204.585	211.869
32.5	163.960	159.104	185.810	202.886	210.088
33.0	163.555	159.266	184.515	201.186	208.632
33.5	162.665	159.509	183.220	199.649	207.013
34.0	162.179	159.347	181.845	198.030	205.718
34.5	161.856	159.185	180.145	196.331	204.424
35.0	161.370	158.699	178.446	194.793	202.643
35.5	161.046	158.214	176.746	193.336	201.186
36.0	160.480	157.647	175.128	191.556	199.730
36.5	159.832	157.000	173.428	190.018	198.111
37.0	159.347	156.029	171.729	188.319	196.654
37.5	158.780	155.139	170.191	186.781	195.036
38.0	158.214	153.925	168.411	185.082	193.417
38.5	157.647	152.468	167.035	183.625	192.122
39.0	157.162	151.173	165.335	181.926	190.261
39.5	156.271	149.554	163.717	180.307	188.804
40.0	154.653	147.936	161.936	178.850	187.510
40.5	153.115	146.156	160.318	177.151	185.891
41.0	151.092	144.375	158.618	175.532	184.434
41.5	148.988	142.595	156.757	173.914	182.897
42.0	146.722	140.652	155.219	172.376	181.521
42.5	144.456	138.710	153.277	170.758	180.064
43.0	142.271	136.606	151.740	169.139	178.608
43.5	140.005	134.826	150.121	167.682	177.151
44.0	137.658	132.722	148.341	166.064	175.856
44.5	135.149	130.779	146.803	164.526	174.318
45.0	132.722	128.756	145.023	163.069	172.700
45.5	130.536	126.733	143.404	161.451	171.243
46.0	128.190	124.791	141.785	159.832	169.705
46.5	126.005	122.848	140.005	158.376	168.573
47.0	123.819	120.825	138.548	156.838	166.954
47.5	121.473	118.883	136.768	155.219	165.335
48.0	119.207	116.941	135.068	153.844	163.960
48.5	117.022	114.917	133.531	152.387	162.503
49.0	114.836	112.975	131.831	150.849	161.127
49.5	112.328	111.114	130.213	149.312	159.832
50.0	109.819	109.172	128.756	147.936	158.295
50.5	107.391	107.148	127.057	146.398	156.919
51.0	105.044	105.125	125.519	144.942	155.786
51.5	102.697	103.264	123.900	143.404	154.167
52.0	100.269	101.402	122.282	142.028	152.711
52.5	97.761	99.379	120.582	140.410	151.497
53.0	95.333	97.437	119.045	139.034	150.121
53.5	92.905	95.738	117.588	137.658	148.826
54.0	90.396	93.957	116.050	136.040	147.450
54.5	87.807	91.934	114.432	134.745	146.075

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CANDELA TABULATION - (Cont.)

55.0	85.298	90.154	112.813	133.288	144.861
55.5	82.708	88.373	111.276	131.912	143.323
56.0	80.280	86.593	109.657	130.456	142.109
56.5	77.772	84.731	108.119	129.161	140.814
57.0	75.263	82.870	106.501	127.623	139.439
57.5	72.835	81.171	104.882	126.328	138.225
58.0	70.245	79.471	103.345	125.033	137.092
58.5	67.817	77.691	101.807	123.577	135.797
59.0	65.390	75.991	100.269	122.201	134.421
59.5	63.043	74.373	98.732	120.825	132.964
60.0	60.777	72.592	97.194	119.692	131.831
60.5	58.430	70.893	95.576	118.316	130.698
61.0	56.164	69.355	94.281	117.022	129.484
61.5	53.898	67.656	92.662	115.808	128.270
62.0	51.713	66.037	91.206	114.513	126.976
62.5	49.609	64.418	89.749	113.056	125.843
63.0	47.586	62.719	88.211	111.842	124.710
63.5	45.805	61.181	86.835	110.547	123.415
64.0	44.025	59.563	85.217	109.172	122.201
64.5	42.325	57.863	83.841	107.958	121.068
65.0	40.869	56.407	82.304	106.744	119.692
65.5	39.331	54.707	80.847	105.449	118.478
66.0	37.793	53.170	79.390	104.073	117.426
66.5	36.417	51.470	77.933	102.697	116.050
67.0	35.123	49.932	76.477	101.402	114.675
67.5	33.585	48.395	74.939	100.108	113.299
68.0	32.290	46.776	73.563	98.651	112.004
68.5	31.076	45.158	72.107	97.275	110.790
69.0	30.105	43.620	70.650	95.899	109.495
69.5	29.134	42.082	69.274	94.685	108.200
70.0	28.244	40.545	67.817	93.229	106.906
70.5	27.435	39.007	66.442	91.853	105.530
71.0	26.625	37.550	65.066	90.396	104.235
71.5	25.816	36.094	63.690	89.182	102.859
72.0	25.007	34.718	62.314	87.645	101.483
72.5	24.197	33.342	60.939	86.269	100.027
73.0	23.307	31.966	59.725	84.893	98.732
73.5	22.417	30.672	58.349	83.437	97.437
74.0	21.527	29.458	56.973	81.980	96.061
74.5	20.718	28.325	55.678	80.523	94.524
75.0	19.827	27.192	54.303	79.147	93.148
75.5	18.937	26.140	53.008	77.691	91.772
76.0	18.047	25.088	51.794	76.315	90.315
76.5	17.238	24.116	50.580	74.858	88.859
77.0	16.428	23.226	49.366	73.401	87.483
77.5	15.619	22.417	48.071	71.945	85.945
78.0	14.810	21.608	46.776	70.407	84.570
78.5	14.081	20.879	45.724	69.031	83.032
79.0	13.353	20.151	44.591	67.575	81.656
79.5	12.625	19.585	43.458	66.118	80.118
80.0	12.058	18.937	42.406	64.661	78.743
80.5	11.411	18.452	41.354	63.124	75.587
81.0	10.844	17.966	40.383	60.534	71.621
81.5	10.278	17.480	39.331	57.297	67.656
82.0	9.711	17.076	38.360	53.898	63.528
82.5	9.226	16.752	36.984	50.661	59.158

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CANDELA TABULATION - (Cont.)

83.0	8.740	16.428	35.689	47.505	54.869
83.5	8.416	16.105	34.232	45.158	52.846
84.0	8.012	15.943	33.099	45.077	54.626
84.5	7.688	15.862	32.614	46.695	56.811
85.0	7.364	16.024	32.614	48.476	57.701
85.5	7.122	16.186	33.019	49.204	57.782
86.0	7.041	16.428	33.585	48.961	57.621
86.5	6.879	16.671	33.504	47.505	54.788
87.0	6.717	16.833	33.261	44.834	50.337
87.5	6.798	17.319	33.180	42.730	47.100
88.0	6.879	19.423	34.718	43.782	47.909
88.5	6.960	21.608	37.470	49.123	54.950
89.0	7.445	25.492	41.759	55.921	61.910
89.5	11.492	32.128	46.776	61.910	67.898
90.0	21.041	41.192	52.603	68.060	74.373
90.5	29.539	58.025	59.644	74.615	81.251
91.0	41.840	139.439	68.546	80.847	86.997
91.5	60.939	269.651	79.066	87.807	93.067
92.0	84.327	420.582	92.500	96.871	100.674
92.5	106.986	619.745	111.033	108.524	110.224
93.0	131.265	767.114	148.745	123.253	122.929
93.5	156.595	876.448	253.870	145.913	139.762
94.0	182.411	954.947	443.970	182.330	167.035
94.5	208.389	1052.061	690.718	233.638	206.447
95.0	234.448	1206.633	958.994	325.006	261.882
95.5	260.587	1381.437	1195.303	492.364	345.481
96.0	287.213	1574.854	1404.097	739.437	505.637
96.5	312.543	1726.189	1595.895	1021.308	746.235
97.0	338.683	1842.725	1807.926	1288.370	1038.303
97.5	365.551	1935.792	2045.044	1517.395	1306.174
98.0	393.066	1990.823	2277.307	1744.802	1542.483
98.5	421.310	2022.385	2507.142	1981.921	1759.369
99.0	448.906	2045.044	2747.497	2240.889	1978.684
99.5	477.393	2082.271	2987.043	2524.946	2233.606
100.0	507.741	2121.926	3206.358	2837.327	2531.420
100.5	536.146	2154.297	3389.254	3148.899	2862.415
101.0	565.119	2188.286	3529.259	3428.909	3196.646
101.5	593.362	2228.750	3631.228	3663.599	3519.548
102.0	622.982	2265.977	3708.919	3858.635	3791.465
102.5	653.330	2297.539	3761.522	4061.764	4011.589
103.0	683.435	2325.864	3799.558	4255.991	4214.717
103.5	713.216	2350.142	3831.929	4430.795	4402.470
104.0	741.784	2372.802	3859.445	4568.372	4597.506
104.5	769.947	2397.080	3883.723	4667.104	4760.170
105.0	799.485	2422.977	3915.285	4734.274	4890.464
105.5	827.082	2447.255	3940.372	4777.975	4982.722
106.0	854.597	2472.343	3968.697	4810.346	5055.557
106.5	882.922	2496.621	3992.166	4841.098	5107.351
107.0	910.437	2520.090	4015.635	4871.851	5142.959
107.5	938.762	2543.559	4033.439	4901.794	5168.856
108.0	967.896	2566.219	4056.908	4932.547	5200.417
108.5	997.030	2591.307	4081.187	4960.062	5220.649
109.0	1026.164	2613.966	4103.846	4985.150	5254.639
109.5	1052.870	2635.008	4127.315	5006.191	5279.727
110.0	1082.813	2656.858	4149.166	5027.232	5308.051
110.5	1111.138	2677.899	4166.161	5051.510	5333.948

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CANDELA TABULATION - (Cont.)

111.0	1133.798	2700.559	4180.728	5070.933	5357.417
111.5	1161.313	2723.219	4195.295	5088.737	5380.886
112.0	1188.829	2744.260	4208.243	5103.304	5405.165
112.5	1213.916	2763.683	4217.955	5111.397	5427.015
113.0	1240.622	2781.487	4230.094	5130.010	5439.154
113.5	1268.138	2803.337	4238.186	5142.959	5451.293
114.0	1294.844	2818.714	4251.944	5154.289	5466.670
114.5	1323.169	2838.136	4261.655	5166.428	5468.288
115.0	1352.303	2857.559	4274.604	5180.185	5474.763
115.5	1378.200	2873.745	4285.934	5194.752	5488.520
116.0	1405.715	2891.549	4294.836	5200.417	5498.232
116.5	1431.612	2907.734	4307.784	5203.655	5519.273
117.0	1459.127	2923.110	4319.923	5206.082	5524.128
117.5	1483.406	2938.487	4331.253	5207.701	5545.170
118.0	1510.112	2950.626	4346.630	5209.319	5550.835
118.5	1536.818	2966.811	4350.676	5208.510	5555.690
119.0	1562.715	2977.332	4362.006	5215.794	5553.262
119.5	1588.612	2989.471	4372.527	5212.557	5550.025
120.0	1614.509	3004.847	4379.001	5215.794	5547.597
120.5	1640.406	3014.559	4386.284	5219.840	5535.458
121.0	1664.684	3025.889	4395.996	5219.840	5530.603
121.5	1692.199	3035.600	4400.851	5219.840	5532.221
122.0	1717.287	3046.121	4407.325	5224.696	5524.128
122.5	1739.947	3055.832	4414.609	5222.268	5522.510
123.0	1766.653	3063.925	4419.465	5222.268	5523.319
123.5	1788.503	3072.018	4427.557	5223.886	5533.031
124.0	1811.972	3082.538	4429.176	5220.649	5534.649
124.5	1835.441	3089.822	4435.650	5221.459	5536.268
125.0	1856.483	3097.914	4437.269	5219.840	5530.603
125.5	1880.761	3103.579	4439.697	5219.840	5520.891
126.0	1900.184	3110.863	4439.697	5218.222	5510.371
126.5	1923.653	3117.337	4434.841	5216.603	5497.422
127.0	1942.266	3123.002	4438.887	5215.794	5486.902
127.5	1967.354	3127.858	4438.887	5209.319	5476.381
128.0	1985.158	3130.286	4440.506	5201.227	5469.907
128.5	2006.199	3139.188	4438.078	5203.655	5460.196
129.0	2031.287	3141.615	4436.459	5195.562	5453.721
129.5	2048.281	3148.899	4429.176	5190.706	5445.629
130.0	2067.704	3148.899	4424.320	5186.660	5434.299
130.5	2089.555	3149.708	4424.320	5178.567	5422.969
131.0	2108.168	3154.564	4419.465	5172.093	5406.783
131.5	2125.972	3153.755	4409.753	5164.000	5391.407
132.0	2146.204	3158.610	4404.088	5155.098	5371.984
132.5	2162.390	3160.229	4395.186	5140.531	5358.227
133.0	2181.003	3161.038	4385.475	5133.247	5335.567
133.5	2200.426	3159.419	4377.382	5117.871	5321.000
134.0	2215.802	3161.038	4366.862	5107.351	5302.386
134.5	2231.987	3162.657	4357.150	5091.165	5291.866
135.0	2247.364	3161.847	4347.439	5073.361	5278.108
135.5	2264.359	3159.419	4334.490	5058.794	5270.015
136.0	2279.735	3160.229	4323.970	5042.608	5251.402
136.5	2296.730	3158.610	4312.640	5028.041	5237.644
137.0	2312.106	3156.992	4300.501	5009.428	5225.505
137.5	2325.054	3157.801	4281.887	4990.815	5203.655
138.0	2340.431	3152.945	4264.083	4973.010	5185.850
138.5	2354.188	3154.564	4255.181	4952.779	5168.856

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CANDELA TABULATION - (Cont.)

139.0	2371.183	3152.945	4237.377	4928.500	5143.768
139.5	2383.322	3149.708	4225.238	4910.696	5122.727
140.0	2399.508	3147.280	4209.052	4884.799	5097.639
140.5	2415.693	3147.280	4192.058	4866.995	5076.598
141.0	2428.642	3140.806	4179.109	4848.382	5055.557
141.5	2444.018	3142.425	4166.161	4824.913	5032.897
142.0	2458.585	3140.806	4151.594	4806.299	5004.572
142.5	2473.961	3135.141	4132.171	4782.830	4977.057
143.0	2486.101	3133.523	4117.604	4761.789	4957.634
143.5	2501.477	3130.286	4099.800	4739.129	4925.263
144.0	2516.853	3127.858	4084.424	4718.088	4899.366
144.5	2528.183	3125.430	4069.857	4694.619	4877.516
145.0	2542.750	3125.430	4055.290	4671.150	4850.810
145.5	2556.508	3122.193	4041.532	4650.918	4833.815
146.0	2571.075	3120.574	4021.300	4623.403	4810.346
146.5	2588.070	3116.528	4005.115	4602.361	4789.304
147.0	2596.972	3116.528	3988.120	4580.511	4765.835
147.5	2609.111	3112.481	3972.743	4557.851	4742.366
148.0	2622.868	3109.244	3956.558	4535.191	4716.469
148.5	2635.008	3108.435	3936.326	4510.104	4688.954
149.0	2652.002	3109.244	3917.713	4482.588	4663.057
149.5	2664.951	3108.435	3898.290	4457.501	4637.970
150.0	2674.662	3106.007	3882.104	4432.413	4604.789
150.5	2689.229	3101.152	3866.728	4407.325	4582.129
151.0	2700.559	3098.724	3844.878	4378.191	4552.186
151.5	2715.126	3097.914	3829.501	4351.485	4520.624
152.0	2723.219	3095.487	3807.651	4322.351	4490.681
152.5	2735.358	3096.296	3787.419	4294.027	4458.310
153.0	2748.307	3093.059	3770.424	4265.702	4422.702
153.5	2761.255	3089.012	3751.811	4234.140	4388.712
154.0	2770.966	3089.822	3729.151	4204.197	4353.913
154.5	2782.296	3090.631	3708.919	4175.063	4319.114
155.0	2791.198	3090.631	3691.115	4143.501	4282.697
155.5	2800.910	3087.394	3670.883	4113.558	4247.898
156.0	2810.621	3088.203	3652.270	4084.424	4212.290
156.5	2822.760	3084.966	3632.038	4048.816	4174.254
157.0	2830.044	3084.966	3610.996	4018.872	4139.455
157.5	2839.755	3085.775	3589.146	3988.929	4100.609
158.0	2848.657	3081.729	3569.723	3955.749	4067.429
158.5	2856.750	3082.538	3548.682	3926.615	4035.058
159.0	2861.605	3079.301	3526.831	3895.862	4000.259
159.5	2872.935	3079.301	3508.218	3865.919	3964.651
160.0	2877.791	3076.064	3490.414	3832.738	3931.470
160.5	2886.693	3076.873	3470.991	3798.749	3899.099
161.0	2893.976	3074.445	3452.378	3772.043	3869.156
161.5	2899.641	3074.445	3438.620	3739.671	3833.548
162.0	2907.734	3072.827	3420.007	3709.728	3798.749
162.5	2915.827	3071.208	3403.012	3678.976	3767.187
163.0	2922.301	3070.399	3386.017	3648.223	3730.769
163.5	2926.348	3069.590	3369.022	3614.233	3699.208
164.0	2933.631	3067.162	3349.600	3588.337	3659.553
164.5	2939.296	3066.353	3334.223	3556.775	3630.419
165.0	2944.961	3064.734	3316.419	3530.878	3592.383
165.5	2950.626	3064.734	3299.425	3504.172	3562.440
166.0	2957.100	3061.497	3284.048	3475.847	3530.069
166.5	2961.146	3061.497	3267.053	3453.997	3498.507

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CANDELA TABULATION - (Cont.)

167.0	2964.384	3059.878	3251.677	3430.527	3470.991
167.5	2973.286	3058.260	3238.729	3404.631	3443.476
168.0	2978.141	3057.451	3220.925	3378.734	3414.342
168.5	2981.378	3056.641	3207.167	3356.074	3390.873
169.0	2986.234	3056.641	3193.409	3331.796	3361.739
169.5	2992.708	3054.213	3181.270	3306.708	3334.223
170.0	2995.136	3053.404	3168.322	3283.239	3308.327
170.5	3001.610	3050.976	3152.945	3259.770	3281.620
171.0	3006.466	3051.786	3142.425	3235.492	3258.151
171.5	3006.466	3050.976	3130.286	3213.641	3232.254
172.0	3014.559	3048.548	3118.956	3194.218	3207.167
172.5	3016.177	3047.739	3109.244	3171.559	3182.079
173.0	3020.224	3047.739	3101.961	3154.564	3160.229
173.5	3025.079	3049.358	3091.440	3138.378	3137.569
174.0	3024.270	3046.930	3083.347	3119.765	3117.337
174.5	3026.698	3046.121	3077.682	3106.816	3101.152
175.0	3032.363	3046.121	3072.827	3095.487	3081.729
175.5	3033.172	3045.311	3066.353	3080.920	3071.208
176.0	3034.791	3046.121	3062.306	3073.636	3060.688
176.5	3033.981	3044.502	3056.641	3067.162	3050.976
177.0	3036.409	3042.074	3054.213	3056.641	3040.456
177.5	3039.646	3043.693	3050.976	3053.404	3033.172
178.0	3036.409	3044.502	3046.930	3046.930	3028.317
178.5	3043.693	3042.884	3045.311	3044.502	3021.842
179.0	3038.837	3042.884	3046.121	3039.646	3021.033
179.5	3039.646	3043.693	3041.265	3038.837	3019.414
180.0	3038.028	3038.028	3038.028	3038.028	3038.028

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	73.34	N.A.	0.30
0-30	163.09	N.A.	0.80
0-40	274.52	N.A.	1.30
0-60	489.33	N.A.	2.30
0-80	627.68	N.A.	2.90
0-90	666.30	N.A.	3.10
10-90	648.01	N.A.	3.00
20-40	201.18	N.A.	0.90
20-50	314.97	N.A.	1.50
40-70	295.55	N.A.	1.40
60-80	138.35	N.A.	0.70
70-80	57.61	N.A.	0.30
80-90	38.62	N.A.	0.20
90-110	4528.1	N.A.	21.30
90-120	8419.78	N.A.	39.60
90-130	12099.16	N.A.	56.80
90-150	17704.23	N.A.	83.20
90-180	20617.04	N.A.	96.90
110-180	16088.94	N.A.	75.60
0-180	21283.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	18.29
10-20	55.05
20-30	89.75
30-40	111.43
40-50	113.80
50-60	101.02
60-70	80.74
70-80	57.61
80-90	38.62
90-100	993.03
100-110	3535.07
110-120	3891.68
120-130	3679.38
130-140	3160.73
140-150	2444.34
150-160	1676.89
160-170	940.01
170-180	295.91

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AI3P33-8-L27-835-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	163	163	163	163	140	140	140	140	98	98	98	58	58	58	22	22	22	5
1	148	142	135	130	127	122	117	112	85	82	79	51	49	48	19	19	18	4
2	135	123	114	106	116	106	99	92	74	69	65	44	42	40	17	16	15	3
3	123	108	97	88	105	93	84	76	65	59	54	39	36	33	15	14	13	3
4	112	95	83	74	96	82	72	64	57	51	46	35	31	28	13	12	11	2
5	103	84	72	62	88	73	62	55	51	44	39	31	27	24	12	10	9	2
6	94	75	62	53	80	65	54	47	46	39	34	28	24	21	11	9	8	2
7	87	67	55	46	74	58	48	40	41	34	29	25	21	18	10	8	7	2
8	80	61	48	40	68	52	42	35	37	30	25	22	19	16	9	7	6	1
9	74	55	43	35	63	47	38	31	33	27	22	20	17	14	8	7	6	1
10	69	50	39	31	59	43	34	27	31	24	20	19	15	12	7	6	5	1

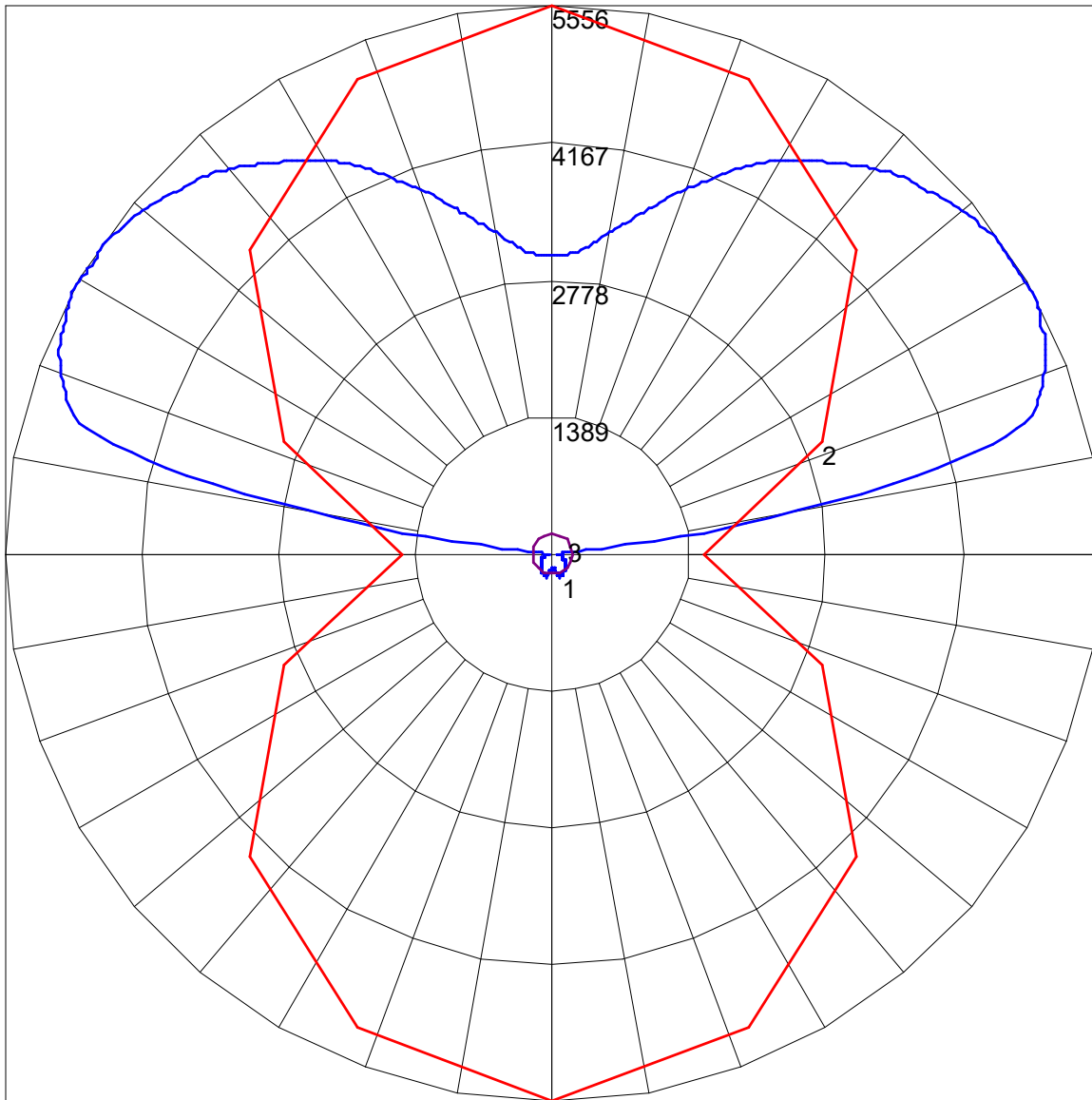
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AI3P33-8-L27-835-DIM-UNV_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	3H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	4H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	6H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	8H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	12H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
4H	2H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	3H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	4H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	6H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	8H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	12H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
8H	4H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	6H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	8H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	12H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
12H	4H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	6H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
	8H	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8

Maximum UGR = 8.8

POLAR GRAPH



Maximum Candela = 5555.69 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)