



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_37\_234-10\_52\_31-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from UL #13012869.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 3-FEB-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2UD-4-00-L4/835U/L8/835D-F-F-(L2.5U)-AC/Dxx-DIM-UNV  
 [LUMINAIRE] Formed White aluminum housing, frosted plastic lens  
 [LAMP] 144 White LEDs

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.96 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18438	16875	15467
55	16266	14788	13392
65	14300	12862	11646
75	11790	10801	10027
85	8505	9146	9353

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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	1458.832	1458.832	1458.832	1458.832	1458.832
0.5	1456.615	1467.700	1455.506	1455.506	1453.289
1.0	1455.506	1467.700	1455.506	1455.506	1453.289
1.5	1455.506	1466.592	1455.506	1455.506	1453.289
2.0	1455.506	1466.592	1454.398	1455.506	1453.289
2.5	1454.398	1465.483	1454.398	1455.506	1453.289
3.0	1453.289	1465.483	1453.289	1455.506	1452.181
3.5	1452.181	1464.375	1452.181	1454.398	1451.072
4.0	1451.072	1463.266	1451.072	1453.289	1449.964
4.5	1449.964	1462.158	1448.855	1452.181	1448.855
5.0	1447.747	1459.941	1447.747	1451.072	1446.638
5.5	1446.638	1458.832	1445.530	1448.855	1445.530
6.0	1444.421	1456.615	1444.421	1446.638	1443.313
6.5	1442.204	1454.398	1442.204	1443.313	1439.987
7.0	1439.987	1452.181	1439.987	1439.987	1436.661
7.5	1437.770	1449.964	1437.770	1436.661	1433.336
8.0	1435.553	1447.747	1434.444	1432.227	1430.010
8.5	1432.227	1444.421	1432.227	1428.902	1425.576
9.0	1428.902	1442.204	1428.902	1424.467	1421.142
9.5	1426.685	1438.878	1425.576	1420.033	1415.599
10.0	1423.359	1435.553	1421.142	1414.491	1410.057
10.5	1420.033	1432.227	1417.816	1410.057	1404.514
11.0	1416.708	1428.902	1412.274	1404.514	1397.863
11.5	1412.274	1424.467	1407.839	1398.971	1392.320
12.0	1408.948	1421.142	1403.405	1393.428	1385.669
12.5	1404.514	1416.708	1397.863	1386.777	1379.018
13.0	1400.080	1412.274	1392.320	1381.235	1372.366
13.5	1395.646	1407.839	1386.777	1374.583	1366.824
14.0	1391.211	1403.405	1381.235	1367.932	1359.064
14.5	1385.669	1397.863	1374.583	1361.281	1351.304
15.0	1380.126	1392.320	1367.932	1353.521	1344.653
15.5	1375.692	1387.886	1361.281	1345.761	1336.893
16.0	1370.149	1381.235	1354.630	1339.110	1329.133
16.5	1364.607	1375.692	1347.979	1331.351	1321.374
17.0	1359.064	1369.041	1340.219	1322.482	1312.505
17.5	1353.521	1363.498	1332.459	1314.723	1304.746
18.0	1346.870	1356.847	1324.699	1305.854	1295.877
18.5	1341.327	1350.196	1316.940	1298.094	1287.009
19.0	1334.676	1343.544	1309.180	1289.226	1278.141
19.5	1328.025	1335.785	1301.420	1280.358	1269.273
20.0	1321.374	1329.133	1292.552	1271.490	1260.404
20.5	1314.723	1321.374	1283.684	1261.513	1250.427
21.0	1306.963	1313.614	1275.924	1251.536	1240.451
21.5	1300.312	1305.854	1267.056	1241.559	1230.474
22.0	1292.552	1298.094	1258.187	1231.582	1219.389
22.5	1285.901	1290.335	1249.319	1221.606	1208.303
23.0	1278.141	1282.575	1239.342	1210.520	1198.326
23.5	1270.381	1273.707	1230.474	1200.543	1186.132
24.0	1261.513	1265.947	1221.606	1189.458	1175.047
24.5	1253.753	1257.079	1211.629	1178.373	1163.962
25.0	1244.885	1248.210	1201.652	1168.396	1152.876
25.5	1237.125	1238.234	1192.784	1157.311	1141.791
26.0	1227.148	1229.365	1181.698	1145.117	1130.706
26.5	1218.280	1219.389	1171.722	1134.031	1119.620

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**CANDELA TABULATION - (Cont.)**

27.0	1208.303	1210.520	1161.745	1124.054	1108.424
27.5	1199.435	1200.543	1150.659	1112.969	1097.006
28.0	1189.458	1190.567	1140.683	1100.886	1086.032
28.5	1179.481	1180.590	1129.597	1089.912	1074.836
29.0	1169.504	1169.504	1118.512	1078.826	1063.861
29.5	1157.311	1159.528	1107.205	1067.408	1052.000
30.0	1147.334	1148.442	1095.898	1056.545	1040.360
30.5	1137.357	1137.357	1084.147	1044.683	1028.720
31.0	1126.272	1126.272	1072.286	1033.265	1017.192
31.5	1115.186	1115.186	1060.425	1021.182	1004.776
32.0	1104.433	1103.768	1048.563	1008.989	992.804
32.5	1093.459	1091.574	1036.480	996.573	981.053
33.0	1082.484	1079.824	1024.397	984.157	968.416
33.5	1071.288	1067.741	1012.203	971.520	956.444
34.0	1059.981	1055.547	999.566	958.883	943.363
34.5	1048.563	1043.242	987.483	946.024	930.726
35.0	1037.478	1031.159	974.957	932.943	917.756
35.5	1025.838	1019.076	962.319	920.306	904.232
36.0	1013.977	1006.439	950.014	907.003	890.597
36.5	1003.002	994.134	937.266	893.701	876.297
37.0	990.919	981.829	924.186	880.399	862.108
37.5	978.947	969.525	911.327	866.985	848.029
38.0	967.308	956.998	898.246	853.572	833.951
38.5	955.225	944.804	885.387	839.715	822.200
39.0	942.920	932.500	872.750	826.967	810.672
39.5	930.615	920.306	860.001	816.214	797.258
40.0	918.089	908.223	847.142	804.020	784.178
40.5	905.784	896.029	834.727	790.940	771.540
41.0	893.701	884.057	824.972	778.302	759.346
41.5	881.285	871.974	813.221	766.109	747.485
42.0	869.091	859.669	802.247	754.136	736.067
42.5	856.676	847.586	790.164	742.718	724.982
43.0	844.704	835.281	778.524	731.522	714.229
43.5	833.175	825.748	766.995	720.548	703.587
44.0	823.087	814.773	755.688	709.795	693.167
44.5	813.443	803.134	744.492	699.153	682.636
45.0	801.360	791.716	733.407	688.733	672.216
45.5	789.609	779.744	722.432	678.313	661.906
46.0	777.859	767.882	711.569	668.003	651.486
46.5	766.219	756.132	700.816	657.583	641.288
47.0	754.469	744.603	690.063	647.274	630.978
47.5	742.829	733.074	679.199	636.742	620.669
48.0	731.411	721.545	668.336	626.322	610.470
48.5	720.104	710.128	657.361	616.013	600.272
49.0	708.797	698.710	646.387	605.704	590.184
49.5	697.490	687.513	635.301	595.505	580.207
50.0	686.183	676.206	624.438	585.306	570.230
50.5	674.876	664.899	613.574	575.219	560.364
51.0	663.569	653.703	602.821	565.242	550.498
51.5	652.040	642.507	592.179	555.154	540.633
52.0	640.733	631.089	581.648	545.178	530.767
52.5	629.315	620.004	571.450	535.201	521.011
53.0	618.119	608.918	561.251	525.335	511.145
53.5	606.923	597.944	551.274	515.469	501.280
54.0	595.727	587.080	541.187	505.603	491.524
54.5	584.531	576.327	531.210	495.737	481.769

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55.0	573.445	565.575	521.344	485.982	472.125
55.5	562.582	554.933	511.478	476.337	462.592
56.0	551.829	544.180	501.612	466.915	453.169
56.5	541.187	533.538	491.746	457.492	444.079
57.0	530.767	523.007	481.769	448.181	435.100
57.5	520.346	512.697	471.903	438.980	426.232
58.0	510.148	502.499	462.037	429.779	417.474
58.5	499.949	492.300	452.282	420.689	408.717
59.0	489.751	482.213	442.749	411.710	400.070
59.5	479.663	472.125	433.105	402.952	391.535
60.0	469.797	462.037	423.571	394.306	383.110
60.5	459.820	452.061	414.260	385.659	374.574
61.0	449.954	442.195	405.059	377.124	366.260
61.5	439.978	432.550	395.858	368.588	358.057
62.0	430.112	422.906	386.768	360.274	350.075
62.5	420.246	413.373	377.789	352.071	341.983
63.0	410.491	403.728	368.920	343.868	334.002
63.5	400.735	394.084	360.163	335.664	326.131
64.0	390.980	384.440	351.406	327.683	318.260
64.5	381.225	374.796	342.759	319.591	310.390
65.0	371.470	365.262	334.112	311.609	302.519
65.5	361.826	355.840	325.577	303.517	294.759
66.0	352.182	346.417	317.041	295.535	287.443
66.5	342.537	337.105	308.505	287.554	279.683
67.0	333.115	327.572	299.970	279.573	272.034
67.5	323.581	318.150	291.434	271.702	264.275
68.0	314.048	308.727	283.009	263.831	256.737
68.5	304.625	299.415	274.473	256.072	249.199
69.0	295.203	290.214	266.048	248.423	241.771
69.5	285.669	281.014	257.624	240.774	234.344
70.0	276.469	271.813	249.420	233.236	227.139
70.5	267.268	262.723	241.217	225.809	219.933
71.0	258.067	253.522	233.125	218.381	212.839
71.5	249.088	244.654	225.033	211.176	205.855
72.0	240.109	235.785	217.051	203.970	198.982
72.5	231.240	227.139	209.291	196.876	192.220
73.0	222.372	218.492	201.643	189.892	185.458
73.5	213.504	209.957	193.994	182.908	178.807
74.0	204.746	201.421	186.456	176.035	172.266
74.5	196.100	192.996	179.139	169.384	165.837
75.0	187.564	184.793	171.823	162.733	159.518
75.5	179.139	176.590	164.617	156.193	153.310
76.0	170.714	168.719	157.412	149.652	147.103
76.5	162.511	160.738	150.428	143.223	141.006
77.0	154.308	152.978	143.444	137.015	135.020
77.5	146.327	145.218	136.793	130.807	129.033
78.0	138.456	137.680	130.142	124.821	123.158
78.5	130.696	130.253	123.602	118.835	117.394
79.0	123.158	122.937	117.283	113.071	111.740
79.5	115.620	115.953	110.964	107.306	106.198
80.0	108.415	109.080	104.646	101.542	100.655
80.5	101.320	102.318	98.660	95.999	95.223
81.0	94.447	95.667	92.784	90.456	89.902
81.5	87.685	89.237	86.798	85.025	84.581
82.0	81.145	82.808	81.145	79.704	79.482
82.5	74.715	76.600	75.380	74.494	74.272

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**CANDELA TABULATION - (Cont.)**

83.0	68.618	70.503	69.838	69.394	69.283
83.5	62.521	64.628	64.406	64.295	64.295
84.0	56.757	58.974	59.085	59.307	59.528
84.5	51.103	53.431	53.986	54.540	54.762
85.0	45.561	48.000	48.997	49.773	50.106
85.5	40.351	42.789	44.120	45.117	45.672
86.0	35.251	37.690	39.353	40.572	41.127
86.5	30.374	32.923	34.697	36.138	36.914
87.0	25.607	28.157	30.152	31.815	32.702
87.5	20.951	23.612	25.829	27.603	28.489
88.0	16.406	19.178	21.506	23.390	24.499
88.5	11.972	14.744	17.182	19.399	20.619
89.0	7.427	10.199	12.748	14.744	15.963
89.5	2.993	5.543	7.205	8.092	8.868
90.0	2.448	4.548	5.878	7.140	7.645
90.5	2.490	2.551	2.367	2.521	2.582
91.0	3.258	3.228	2.767	2.859	2.920
91.5	4.642	3.996	3.197	3.228	3.258
92.0	6.056	4.765	3.781	3.658	3.658
92.5	7.500	5.625	4.426	4.150	4.119
93.0	9.007	6.640	5.164	4.703	4.703
93.5	10.482	7.777	5.994	5.441	5.318
94.0	11.957	9.099	6.916	6.240	6.056
94.5	13.464	10.328	7.869	7.070	6.824
95.0	14.970	11.558	8.884	7.900	7.654
95.5	16.476	12.880	9.929	8.730	8.484
96.0	17.952	14.201	11.005	9.560	9.283
96.5	19.427	15.708	12.111	10.421	10.052
97.0	20.964	17.152	13.218	11.281	10.789
97.5	22.501	18.628	14.417	12.203	11.619
98.0	23.915	20.165	15.646	13.156	12.511
98.5	25.483	21.886	17.060	14.232	13.433
99.0	26.989	23.454	18.782	15.308	14.386
99.5	28.495	25.022	20.165	16.445	15.369
100.0	29.940	26.620	21.579	17.552	16.415
100.5	31.415	28.280	23.116	18.659	17.521
101.0	33.198	29.940	24.530	19.857	18.689
101.5	34.674	31.569	25.944	21.148	19.857
102.0	36.149	33.444	27.327	22.747	21.118
102.5	37.655	35.411	28.587	24.683	22.409
103.0	39.315	37.348	29.940	26.405	23.792
103.5	40.883	39.438	31.323	28.188	25.452
104.0	42.481	41.528	32.706	29.817	27.849
104.5	44.479	43.342	34.028	31.292	29.786
105.0	46.201	45.033	35.688	32.675	31.231
105.5	47.983	46.908	37.286	34.182	32.737
106.0	49.859	48.813	38.731	35.749	34.335
106.5	51.764	50.658	40.452	37.225	35.872
107.0	53.670	52.687	42.205	38.700	37.379
107.5	55.422	54.685	44.018	40.268	38.916
108.0	57.236	56.744	45.524	41.743	40.575
108.5	59.142	59.050	47.061	43.188	42.143
109.0	61.140	61.509	48.813	44.756	43.649
109.5	63.230	63.937	50.596	46.662	45.371
110.0	65.597	66.273	52.533	48.783	46.877
110.5	67.995	68.763	54.500	50.658	48.660

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111.0	70.577	71.530	56.590	52.594	50.689
111.5	73.312	74.204	58.865	54.439	53.178
112.0	76.263	76.786	61.355	56.314	55.668
112.5	79.337	79.399	63.998	58.312	57.636
113.0	82.104	82.134	67.103	60.371	59.910
113.5	84.962	85.024	70.392	62.246	62.123
114.0	87.975	88.006	73.866	64.306	64.183
114.5	91.110	90.926	77.370	66.427	66.365
115.0	94.369	93.877	80.813	68.763	68.517
115.5	97.627	97.012	84.286	71.191	70.269
116.0	100.854	100.301	87.698	73.497	72.452
116.5	104.144	103.621	91.049	76.079	74.819
117.0	107.740	107.094	94.338	78.907	77.339
117.5	111.459	110.660	97.904	82.042	79.921
118.0	115.271	114.441	101.807	85.208	82.596
118.5	119.175	118.345	105.896	88.497	85.362
119.0	123.202	122.341	109.922	92.125	88.344
119.5	127.290	126.429	113.949	96.244	91.571
120.0	131.470	130.610	118.007	100.639	94.922
120.5	135.743	134.790	122.310	105.250	98.518
121.0	140.108	139.217	126.921	109.738	102.453
121.5	144.535	143.612	131.655	114.380	106.664
122.0	149.022	147.885	136.389	118.929	111.306
122.5	153.572	152.373	141.307	123.325	116.162
123.0	158.183	156.922	146.533	127.690	121.019
123.5	162.793	161.564	151.943	132.085	125.968
124.0	167.343	166.236	157.260	136.727	130.548
124.5	171.892	170.970	162.548	141.645	135.190
125.0	176.595	175.796	167.927	146.840	139.985
125.5	181.606	180.622	173.368	152.035	144.811
126.0	186.524	185.571	178.901	157.168	149.791
126.5	191.473	190.489	184.311	162.486	154.894
127.0	196.483	195.346	189.659	167.927	159.904
127.5	201.555	200.234	194.916	173.521	165.068
128.0	206.535	205.152	200.141	178.931	170.632
128.5	211.361	210.039	205.275	184.188	176.349
129.0	216.249	214.988	210.254	189.506	181.944
129.5	221.013	219.937	215.203	195.285	187.569
130.0	225.593	224.886	219.999	201.340	193.225
130.5	230.112	229.835	224.763	207.396	198.850
131.0	234.569	234.723	229.589	213.298	204.844
131.5	239.088	239.610	234.354	219.138	210.715
132.0	243.606	244.405	238.903	225.255	216.648
132.5	248.186	249.016	243.422	231.495	222.734
133.0	252.582	253.443	247.910	237.243	228.944
133.5	256.793	257.838	252.490	242.592	235.184
134.0	260.943	262.111	257.008	247.664	241.485
134.5	265.062	266.414	261.404	252.797	247.387
135.0	269.150	270.718	265.830	257.685	253.227
135.5	273.177	274.868	270.257	262.357	258.945
136.0	277.204	278.864	274.591	266.783	264.355
136.5	281.138	282.706	278.741	271.025	269.365
137.0	284.919	286.364	282.706	275.482	274.007
137.5	288.669	289.930	286.641	279.909	278.464
138.0	292.266	293.495	290.514	284.182	282.829
138.5	295.801	296.969	294.356	288.178	287.071

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 192\_168\_37\_234-10\_52\_31-MERGED.IES****CANDELA TABULATION - (Cont.)**

139.0	299.151	300.320	297.953	291.866	291.098
139.5	302.287	303.516	301.334	295.401	294.971
140.0	305.453	306.652	304.654	298.813	298.783
140.5	308.619	309.849	308.004	302.164	302.502
141.0	311.693	312.615	311.386	305.453	306.037
141.5	314.767	315.689	314.459	308.926	309.234
142.0	317.533	318.763	317.533	312.308	312.615
142.5	319.992	321.529	320.300	315.689	315.689
143.0	322.759	324.296	323.374	318.763	318.763
143.5	325.525	327.062	326.140	321.837	321.837
144.0	328.292	329.829	329.214	324.911	324.911
144.5	330.751	332.288	331.981	327.985	327.985
145.0	333.518	334.747	334.440	330.751	331.058
145.5	335.977	336.899	336.899	333.825	334.132
146.0	338.436	339.358	339.665	336.899	337.206
146.5	340.895	341.817	342.432	339.665	339.973
147.0	343.047	344.276	344.584	342.739	343.047
147.5	345.198	346.428	347.043	345.506	345.813
148.0	347.350	348.580	349.502	348.272	348.580
148.5	349.502	350.731	351.654	350.731	351.346
149.0	351.654	352.576	353.805	353.191	354.113
149.5	353.498	354.727	355.957	355.650	356.879
150.0	355.342	356.879	357.801	357.801	359.338
150.5	357.494	359.031	359.953	360.260	362.105
151.0	359.338	361.183	361.797	362.412	364.257
151.5	361.183	363.027	363.949	364.564	366.716
152.0	363.027	365.179	365.793	366.716	368.560
152.5	365.179	367.023	367.330	368.560	370.712
153.0	367.023	368.867	369.175	370.404	372.556
153.5	368.867	370.712	370.712	371.941	374.400
154.0	370.712	372.556	372.556	373.786	375.937
154.5	372.249	374.400	374.093	375.323	377.782
155.0	374.093	376.245	375.630	376.860	379.319
155.5	375.937	377.782	377.167	378.396	380.548
156.0	377.782	379.626	378.704	379.933	382.085
156.5	379.626	381.163	380.241	381.163	383.315
157.0	381.470	382.700	381.778	382.700	384.544
157.5	383.007	384.237	383.315	384.237	385.774
158.0	384.852	385.466	384.852	385.466	387.003
158.5	386.389	387.003	386.081	387.003	388.233
159.0	387.618	388.233	387.618	388.233	389.462
159.5	389.155	389.770	389.155	389.462	390.999
160.0	390.385	390.999	390.385	390.692	392.229
160.5	391.307	391.922	391.614	391.922	393.766
161.0	392.536	393.151	393.151	393.151	394.996
161.5	393.766	394.381	394.381	394.381	396.532
162.0	394.996	395.303	395.610	395.918	397.762
162.5	396.225	396.532	396.840	397.147	399.299
163.0	397.147	397.455	398.069	398.377	400.529
163.5	398.377	398.377	398.992	399.299	401.758
164.0	399.299	399.606	399.914	400.529	402.988
164.5	400.221	400.529	401.143	401.451	404.217
165.0	401.143	401.451	401.758	402.680	405.139
165.5	401.758	402.373	402.680	403.602	406.062
166.0	402.680	403.295	403.295	404.525	407.291
166.5	403.602	403.910	403.910	405.139	407.906

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

167.0	404.525	404.832	404.832	405.754	408.828
167.5	405.139	405.447	405.447	406.676	409.443
168.0	406.062	406.369	406.062	407.291	410.058
168.5	406.676	406.984	406.369	407.906	410.672
169.0	407.598	407.598	406.984	408.213	411.287
169.5	408.213	408.213	407.598	408.521	411.595
170.0	408.828	408.828	408.213	409.135	411.902
170.5	409.443	409.443	408.521	409.443	412.209
171.0	410.058	410.058	409.135	409.750	412.517
171.5	410.672	410.365	409.443	409.750	412.824
172.0	410.980	410.980	409.750	410.058	413.131
172.5	411.595	411.287	410.058	410.365	413.131
173.0	411.902	411.595	410.365	410.365	413.439
173.5	412.517	412.209	410.365	410.672	413.439
174.0	412.824	412.517	410.672	410.980	413.439
174.5	413.131	412.517	410.980	410.980	413.746
175.0	413.439	412.824	410.980	410.980	413.746
175.5	413.746	413.131	411.287	411.287	413.746
176.0	413.746	413.131	411.287	411.287	413.746
176.5	414.054	413.439	411.287	411.287	413.746
177.0	414.054	413.439	411.595	411.595	413.746
177.5	414.361	413.439	411.595	411.595	413.746
178.0	414.361	413.439	411.595	411.595	413.746
178.5	414.361	413.746	411.595	411.595	413.746
179.0	414.361	413.746	411.902	411.595	413.746
179.5	414.361	413.746	411.902	411.595	413.746
180.0	412.824	412.824	412.824	412.824	412.824



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

Zone	Lumens	%Lamp	%Fixt
0-20	522.85	N.A.	12.10
0-30	1076.32	N.A.	24.90
0-40	1687.32	N.A.	39.10
0-60	2725.88	N.A.	63.20
0-80	3244.25	N.A.	75.20
0-90	3299.45	N.A.	76.50
10-90	3161.82	N.A.	73.30
20-40	1164.46	N.A.	27.00
20-50	1733.72	N.A.	40.20
40-70	1372.54	N.A.	31.80
60-80	518.37	N.A.	12.00
70-80	184.40	N.A.	4.30
80-90	55.20	N.A.	1.30
90-110	51.93	N.A.	1.20
90-120	133.50	N.A.	3.10
90-130	278.95	N.A.	6.50
90-150	688.83	N.A.	16.00
90-180	1014.99	N.A.	23.50
110-180	963.07	N.A.	22.30
0-180	4314.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.63
10-20	385.22
20-30	553.47
30-40	611.00
40-50	569.26
50-60	469.30
60-70	333.97
70-80	184.40
80-90	55.20
90-100	11.60
100-110	40.32
110-120	81.57
120-130	145.46
130-140	201.89
140-150	207.99
150-160	173.41
160-170	113.51
170-180	39.25

**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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	65
2	95	88	81	76	90	84	78	73	76	72	68	70	66	63	64	61	58	55
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50	47
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	41
5	74	62	54	47	70	59	52	46	55	48	44	50	45	41	46	42	38	36
6	68	56	48	42	65	54	46	41	50	43	38	46	40	36	42	38	34	32
7	63	51	43	37	60	49	41	36	45	39	34	42	36	32	39	34	31	28
8	59	46	38	33	56	45	37	32	42	35	31	39	33	29	36	31	28	26
9	55	43	35	30	53	41	34	29	38	32	28	36	30	26	33	28	25	23
10	52	39	32	27	49	38	31	26	35	29	25	33	28	24	31	26	23	21

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 192\_168\_37\_234-10\_52\_31-MERGED.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	19.9	21.0	20.6	21.7	22.6	18.8	19.9	19.5	20.6	21.5
	3H	21.5	22.5	22.2	23.3	24.1	20.4	21.4	21.1	22.1	23.0
	4H	22.1	23.0	22.8	23.8	24.7	20.9	21.9	21.7	22.6	23.5
	6H	22.5	23.4	23.2	24.1	25.0	21.4	22.3	22.1	23.0	23.9
	8H	22.6	23.4	23.4	24.2	25.1	21.5	22.4	22.3	23.1	24.1
	12H	22.7	23.5	23.4	24.2	25.2	21.7	22.5	22.4	23.2	24.2

UGR Viewed Endwise

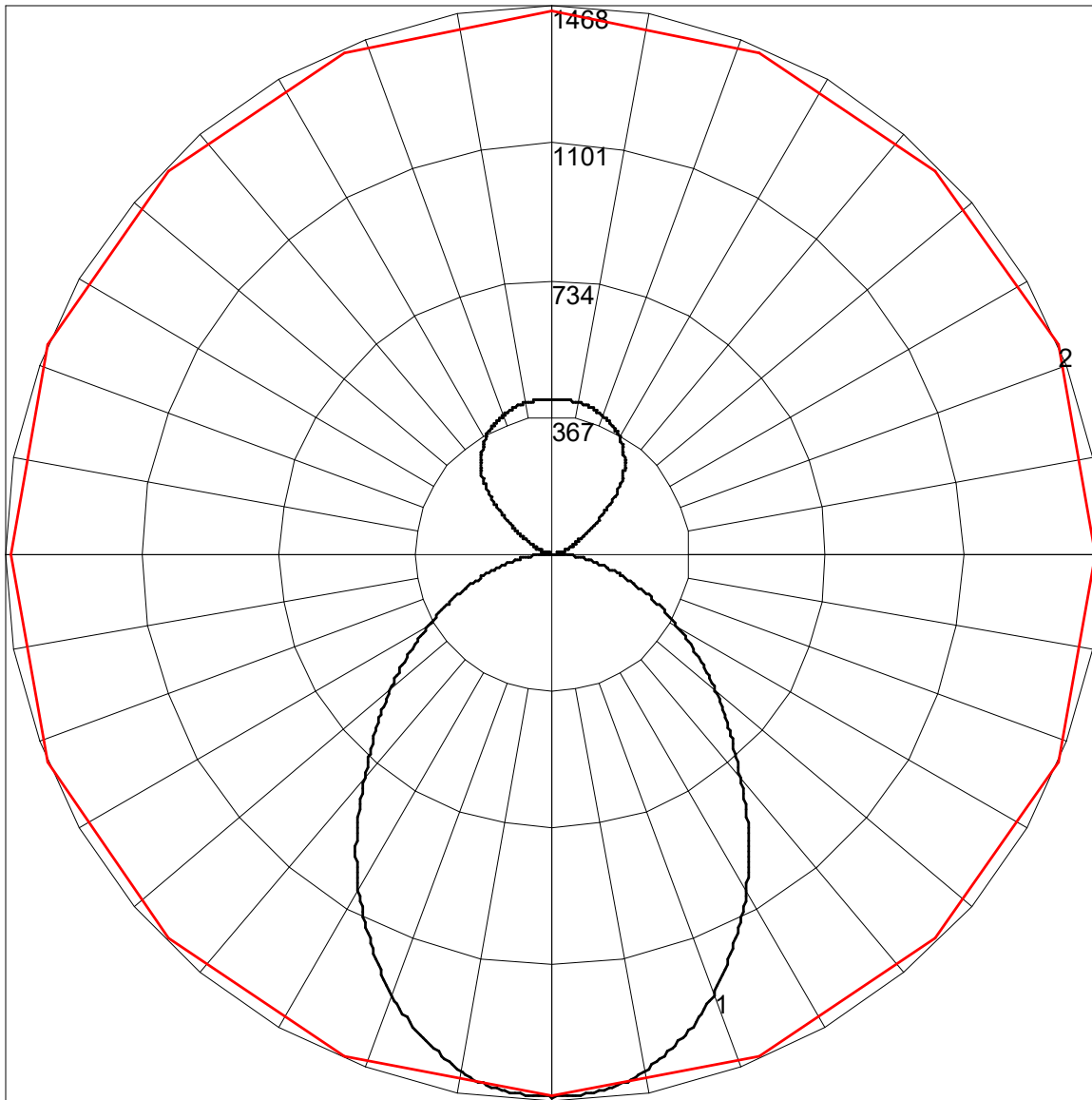
4H	2H	20.3	21.3	21.0	22.0	22.9	19.4	20.3	20.1	21.1	22.0
	3H	22.2	22.9	22.9	23.7	24.6	21.2	22.0	21.9	22.7	23.7
	4H	22.9	23.6	23.6	24.4	25.3	21.9	22.6	22.6	23.4	24.3
	6H	23.4	24.0	24.2	24.8	25.8	22.5	23.1	23.2	23.9	24.8
	8H	23.6	24.1	24.3	24.9	25.9	22.7	23.2	23.5	24.0	25.0
	12H	23.7	24.2	24.5	25.0	26.0	22.8	23.4	23.6	24.2	25.1

8H	4H	23.1	23.6	23.8	24.4	25.4	22.2	22.8	23.0	23.6	24.5
	6H	23.7	24.2	24.5	25.0	26.0	22.9	23.4	23.7	24.2	25.2
	8H	23.9	24.4	24.8	25.2	26.2	23.2	23.6	24.0	24.4	25.4
	12H	24.1	24.5	25.0	25.3	26.4	23.4	23.8	24.3	24.6	25.7

12H	4H	23.0	23.6	23.9	24.4	25.4	22.2	22.7	23.0	23.5	24.5
	6H	23.7	24.2	24.6	25.0	26.0	23.0	23.4	23.8	24.2	25.2
	8H	24.0	24.4	24.9	25.2	26.3	23.3	23.7	24.1	24.5	25.5

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1467.7 Located At Horizontal Angle = 22.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)