



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-11_9_57-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #3012869.01

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 3-FEB-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] MX2UD-8-00-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	8518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	67
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)	8.00 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	17935	16414	15044
55	15822	14384	13026
65	13910	12511	11328
75	11468	10506	9754
85	8273	8897	9098

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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	2868.136	2868.136	2868.136	2868.136	2868.136
0.5	2863.778	2885.572	2861.598	2861.598	2857.239
1.0	2861.598	2885.572	2861.598	2861.598	2857.239
1.5	2861.598	2883.392	2861.598	2861.598	2857.239
2.0	2861.598	2883.392	2859.419	2861.598	2857.239
2.5	2859.419	2881.213	2859.419	2861.598	2857.239
3.0	2857.239	2881.213	2857.239	2861.598	2855.060
3.5	2855.060	2879.034	2855.060	2859.419	2852.880
4.0	2852.880	2876.854	2852.880	2857.239	2850.701
4.5	2850.701	2874.675	2848.522	2855.060	2848.522
5.0	2846.342	2870.316	2846.342	2852.880	2844.163
5.5	2844.163	2868.136	2841.983	2848.522	2841.983
6.0	2839.804	2863.778	2839.804	2844.163	2837.624
6.5	2835.445	2859.419	2835.445	2837.624	2831.086
7.0	2831.086	2855.060	2831.086	2831.086	2824.548
7.5	2826.727	2850.701	2826.727	2824.548	2818.009
8.0	2822.368	2846.342	2820.189	2815.830	2811.471
8.5	2815.830	2839.804	2815.830	2809.292	2802.753
9.0	2809.292	2835.445	2809.292	2800.574	2794.036
9.5	2804.933	2828.907	2802.753	2791.856	2783.138
10.0	2798.395	2822.368	2794.036	2780.959	2772.241
10.5	2791.856	2815.830	2787.497	2772.241	2761.344
11.0	2785.318	2809.292	2776.600	2761.344	2748.268
11.5	2776.600	2800.574	2767.882	2750.447	2737.370
12.0	2770.062	2794.036	2759.165	2739.550	2724.294
12.5	2761.344	2785.318	2748.268	2726.473	2711.217
13.0	2752.626	2776.600	2737.370	2715.576	2698.141
13.5	2743.909	2767.882	2726.473	2702.499	2687.243
14.0	2735.191	2759.165	2715.576	2689.423	2671.987
14.5	2724.294	2748.268	2702.499	2676.346	2656.731
15.0	2713.397	2737.370	2689.423	2661.090	2643.655
15.5	2704.679	2728.653	2676.346	2645.834	2628.399
16.0	2693.782	2715.576	2663.270	2632.757	2613.143
16.5	2682.884	2704.679	2650.193	2617.501	2597.887
17.0	2671.987	2691.602	2634.937	2600.066	2580.451
17.5	2661.090	2680.705	2619.681	2584.810	2565.195
18.0	2648.014	2667.628	2604.425	2567.374	2547.760
18.5	2637.116	2654.552	2589.169	2552.118	2530.324
19.0	2624.040	2641.475	2573.913	2534.683	2512.889
19.5	2610.963	2626.219	2558.657	2517.247	2495.453
20.0	2597.887	2613.143	2541.221	2499.812	2478.018
20.5	2584.810	2597.887	2523.786	2480.197	2458.403
21.0	2569.554	2582.630	2508.530	2460.582	2438.788
21.5	2556.477	2567.374	2491.094	2440.967	2419.173
22.0	2541.221	2552.118	2473.659	2421.352	2397.378
22.5	2528.145	2536.862	2456.223	2401.737	2375.584
23.0	2512.889	2521.606	2436.608	2379.943	2355.969
23.5	2497.633	2504.171	2419.173	2360.328	2331.995
24.0	2480.197	2488.915	2401.737	2338.534	2310.201
24.5	2464.941	2471.479	2382.122	2316.739	2288.407
25.0	2447.506	2454.044	2362.508	2297.124	2266.612
25.5	2432.249	2434.429	2345.072	2275.330	2244.818
26.0	2412.635	2416.993	2323.278	2251.356	2223.024
26.5	2395.199	2397.378	2303.663	2229.562	2201.229

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27.0	2375.584	2379.943	2284.048	2209.947	2179.217
27.5	2358.149	2360.328	2262.254	2188.153	2156.769
28.0	2338.534	2340.713	2242.639	2164.397	2135.192
28.5	2318.919	2321.098	2220.844	2142.820	2113.180
29.0	2299.304	2299.304	2199.050	2121.026	2091.604
29.5	2275.330	2279.689	2176.820	2098.578	2068.284
30.0	2255.715	2257.895	2154.589	2077.220	2045.400
30.5	2236.100	2236.100	2131.487	2053.900	2022.516
31.0	2214.306	2214.306	2108.167	2031.451	1999.850
31.5	2192.512	2192.512	2084.848	2007.696	1975.440
32.0	2171.371	2170.063	2061.528	1983.722	1951.902
32.5	2149.795	2146.090	2037.772	1959.312	1928.800
33.0	2128.218	2122.988	2014.016	1934.902	1903.954
33.5	2106.206	2099.232	1990.042	1910.057	1880.417
34.0	2083.976	2075.258	1965.197	1885.211	1854.699
34.5	2061.528	2051.066	1941.441	1859.930	1829.854
35.0	2039.733	2027.310	1916.813	1834.213	1804.354
35.5	2016.849	2003.555	1891.968	1809.367	1777.765
36.0	1993.529	1978.709	1867.776	1783.214	1750.958
36.5	1971.953	1954.517	1842.712	1757.061	1722.843
37.0	1948.197	1930.326	1816.995	1730.907	1694.947
37.5	1924.659	1906.134	1791.714	1704.536	1667.268
38.0	1901.775	1881.506	1765.996	1678.165	1639.589
38.5	1878.019	1857.532	1740.715	1650.922	1616.487
39.0	1853.827	1833.341	1715.869	1625.859	1593.821
39.5	1829.636	1809.367	1690.806	1604.718	1567.450
40.0	1805.008	1785.611	1665.524	1580.744	1541.732
40.5	1780.816	1761.637	1641.115	1555.027	1516.887
41.0	1757.061	1738.099	1621.936	1530.181	1492.913
41.5	1732.651	1714.344	1598.834	1506.208	1469.593
42.0	1708.677	1690.152	1577.257	1482.670	1447.145
42.5	1684.267	1666.396	1553.501	1460.221	1425.350
43.0	1660.729	1642.204	1530.617	1438.209	1404.210
43.5	1638.063	1623.461	1507.951	1416.633	1383.287
44.0	1618.230	1601.885	1485.721	1395.492	1362.801
44.5	1599.269	1579.001	1463.709	1374.570	1342.096
45.0	1575.514	1556.552	1441.914	1354.083	1321.609
45.5	1552.412	1533.015	1420.338	1333.596	1301.341
46.0	1529.310	1509.695	1398.979	1313.328	1280.854
46.5	1506.425	1486.593	1377.839	1292.841	1260.803
47.0	1483.323	1463.926	1356.698	1272.572	1240.534
47.5	1460.439	1441.260	1335.340	1251.867	1220.266
48.0	1437.991	1418.594	1313.981	1231.381	1200.215
48.5	1415.761	1396.146	1292.405	1211.112	1180.164
49.0	1393.531	1373.698	1270.829	1190.843	1160.331
49.5	1371.301	1351.686	1249.034	1170.792	1140.716
50.0	1349.070	1329.455	1227.676	1150.742	1121.101
50.5	1326.840	1307.225	1206.317	1130.909	1101.704
51.0	1304.610	1285.213	1185.177	1111.294	1082.307
51.5	1281.944	1263.201	1164.254	1091.461	1062.910
52.0	1259.713	1240.752	1143.550	1071.846	1043.513
52.5	1237.265	1218.958	1123.499	1052.231	1024.334
53.0	1215.253	1197.164	1103.448	1032.834	1004.937
53.5	1193.241	1175.587	1083.833	1013.437	985.541
54.0	1171.228	1154.229	1064.000	994.040	966.361
54.5	1149.216	1133.088	1044.385	974.643	947.182

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55.0	1127.422	1111.948	1024.988	955.464	928.221
55.5	1106.063	1091.025	1005.591	936.503	909.478
56.0	1084.923	1069.885	986.194	917.978	890.953
56.5	1064.000	1048.962	966.797	899.453	873.082
57.0	1043.513	1028.257	947.182	881.146	855.428
57.5	1023.027	1007.989	927.785	863.056	837.993
58.0	1002.976	987.938	908.389	844.967	820.775
58.5	982.925	967.887	889.209	827.096	803.558
59.0	962.874	948.054	870.466	809.442	786.558
59.5	943.042	928.221	851.505	792.225	769.776
60.0	923.645	908.389	832.762	775.225	753.213
60.5	904.030	888.774	814.455	758.225	736.431
61.0	884.633	869.377	796.366	741.444	720.085
61.5	865.018	850.416	778.276	724.662	703.957
62.0	845.621	831.454	760.405	708.316	688.266
62.5	826.224	812.711	742.751	692.189	672.356
63.0	807.045	793.750	725.316	676.061	656.664
63.5	787.866	774.789	708.098	659.933	641.190
64.0	768.687	755.828	690.881	644.241	625.716
64.5	749.508	736.867	673.881	628.331	610.242
65.0	730.329	718.124	656.882	612.639	594.768
65.5	711.368	699.599	640.100	596.729	579.512
66.0	692.407	681.073	623.318	581.037	565.128
66.5	673.445	662.766	606.537	565.345	549.871
67.0	654.920	644.023	589.755	549.654	534.833
67.5	636.177	625.498	572.973	534.180	519.577
68.0	617.434	606.973	556.410	518.706	504.757
68.5	598.909	588.665	539.628	503.449	489.937
69.0	580.384	570.576	523.064	488.411	475.335
69.5	561.640	552.487	506.501	473.373	460.733
70.0	543.551	534.397	490.373	458.553	446.566
70.5	525.462	516.526	474.245	443.951	432.400
71.0	507.372	498.437	458.335	429.349	418.452
71.5	489.719	481.001	442.425	415.182	404.721
72.0	472.066	463.566	426.733	401.016	391.209
72.5	454.630	446.566	411.477	387.068	377.914
73.0	437.195	429.567	396.439	373.337	364.619
73.5	419.759	412.785	381.401	359.607	351.543
74.0	402.542	396.003	366.581	346.094	338.684
74.5	385.542	379.440	352.197	333.018	326.043
75.0	368.760	363.312	337.812	319.941	313.621
75.5	352.197	347.184	323.646	307.082	301.416
76.0	335.633	331.710	309.480	294.224	289.211
76.5	319.505	316.018	295.749	281.583	277.224
77.0	303.377	300.762	282.019	269.378	265.455
77.5	287.685	285.506	268.942	257.173	253.686
78.0	272.211	270.686	255.866	245.404	242.135
78.5	256.955	256.084	243.007	233.635	230.802
79.0	242.135	241.699	230.584	222.302	219.687
79.5	227.315	227.969	218.161	210.969	208.790
80.0	213.149	214.456	205.739	199.636	197.893
80.5	199.200	201.162	193.970	188.739	187.213
81.0	185.688	188.085	182.419	177.842	176.752
81.5	172.393	175.445	170.650	167.163	166.291
82.0	159.535	162.804	159.535	156.701	156.265
82.5	146.894	150.599	148.202	146.458	146.022

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83.0	134.907	138.612	137.304	136.433	136.215
83.5	122.920	127.061	126.625	126.407	126.407
84.0	111.587	115.946	116.164	116.600	117.036
84.5	100.472	105.049	106.138	107.228	107.664
85.0	89.575	94.370	96.331	97.857	98.510
85.5	79.331	84.126	86.742	88.703	89.793
86.0	69.306	74.101	77.370	79.767	80.857
86.5	59.717	64.729	68.216	71.050	72.575
87.0	50.345	55.358	59.281	62.550	64.293
87.5	41.191	46.422	50.781	54.268	56.011
88.0	32.256	37.704	42.281	45.986	48.166
88.5	23.538	28.986	33.781	38.140	40.537
89.0	14.602	20.051	25.064	28.986	31.384
89.5	5.884	10.897	14.166	15.910	17.435
90.0	4.875	9.011	11.626	14.113	15.108
90.5	4.982	5.105	4.736	5.044	5.167
91.0	6.520	6.458	5.536	5.720	5.843
91.5	9.288	7.996	6.397	6.458	6.520
92.0	12.117	9.534	7.566	7.319	7.319
92.5	15.008	11.256	8.857	8.304	8.242
93.0	18.022	13.286	10.333	9.411	9.411
93.5	20.974	15.562	11.994	10.887	10.641
94.0	23.927	18.206	13.839	12.486	12.117
94.5	26.941	20.667	15.746	14.147	13.655
95.0	29.954	23.127	17.776	15.808	15.316
95.5	32.968	25.772	19.867	17.468	16.976
96.0	35.921	28.417	22.020	19.129	18.575
96.5	38.873	31.431	24.234	20.851	20.113
97.0	41.949	34.322	26.449	22.573	21.589
97.5	45.024	37.274	28.847	24.419	23.250
98.0	47.853	40.349	31.308	26.326	25.034
98.5	50.990	43.794	34.137	28.478	26.879
99.0	54.004	46.931	37.581	30.631	28.786
99.5	57.018	50.068	40.349	32.907	30.754
100.0	59.909	53.266	43.179	35.121	32.845
100.5	62.861	56.588	46.254	37.335	35.060
101.0	66.429	59.909	49.084	39.734	37.397
101.5	69.381	63.169	51.913	42.318	39.734
102.0	72.334	66.921	54.681	45.516	42.256
102.5	75.348	70.857	57.203	49.391	44.839
103.0	78.669	74.732	59.909	52.836	47.607
103.5	81.806	78.915	62.677	56.403	50.929
104.0	85.004	83.098	65.445	59.663	55.726
104.5	89.002	86.727	68.090	62.615	59.601
105.0	92.447	90.109	71.411	65.383	62.492
105.5	96.014	93.861	74.609	68.397	65.506
106.0	99.766	97.675	77.500	71.534	68.705
106.5	103.580	101.365	80.945	74.486	71.780
107.0	107.393	105.425	84.451	77.439	74.794
107.5	110.899	109.423	88.080	80.576	77.869
108.0	114.528	113.544	91.094	83.528	81.191
108.5	118.342	118.157	94.169	86.419	84.328
109.0	122.340	123.078	97.675	89.556	87.342
109.5	126.522	127.937	101.242	93.369	90.786
110.0	131.258	132.612	105.117	97.613	93.800
110.5	136.056	137.594	109.054	101.365	97.367

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CANDELA TABULATION - (Cont.)

111.0	141.223	143.130	113.237	105.240	101.427
111.5	146.697	148.481	117.788	108.931	106.409
112.0	152.602	153.647	122.770	112.683	111.391
112.5	158.753	158.876	128.060	116.681	115.328
113.0	164.288	164.350	134.272	120.802	119.879
113.5	170.009	170.132	140.854	124.554	124.308
114.0	176.036	176.098	147.804	128.675	128.429
114.5	182.310	181.941	154.816	132.919	132.796
115.0	188.830	187.846	161.705	137.594	137.102
115.5	195.350	194.120	168.655	142.453	140.608
116.0	201.808	200.701	175.483	147.066	144.975
116.5	208.390	207.344	182.187	152.233	149.711
117.0	215.586	214.294	188.769	157.892	154.755
117.5	223.029	221.429	195.904	164.165	159.921
118.0	230.656	228.995	203.715	170.501	165.272
118.5	238.467	236.806	211.896	177.082	170.808
119.0	246.525	244.803	219.953	184.340	176.775
119.5	254.705	252.983	228.011	192.582	183.233
120.0	263.070	261.348	236.130	201.378	189.937
120.5	271.620	269.713	244.741	210.604	197.134
121.0	280.354	278.571	253.967	219.584	205.007
121.5	289.211	287.366	263.440	228.872	213.433
122.0	298.192	295.916	272.912	237.975	222.721
122.5	307.295	304.896	282.753	246.771	232.439
123.0	316.521	313.999	293.209	255.505	242.158
123.5	325.747	323.287	304.035	264.301	252.061
124.0	334.851	332.636	314.676	273.588	261.225
124.5	343.954	342.108	325.255	283.430	270.513
125.0	353.364	351.765	336.019	293.825	280.108
125.5	363.390	361.422	346.906	304.219	289.765
126.0	373.232	371.325	357.978	314.491	299.729
126.5	383.134	381.166	368.803	325.132	309.940
127.0	393.160	390.884	379.505	336.019	319.966
127.5	403.309	400.664	390.023	347.214	330.299
128.0	413.273	410.506	400.480	358.039	341.432
128.5	422.930	420.285	410.752	368.557	352.872
129.0	432.710	430.188	420.716	379.198	364.067
129.5	442.244	440.091	430.619	390.761	375.323
130.0	451.409	449.994	440.214	402.879	386.640
130.5	460.450	459.897	449.748	414.996	397.896
131.0	469.369	469.676	459.405	426.805	409.891
131.5	478.411	479.456	468.938	438.492	421.639
132.0	487.452	489.052	478.042	450.732	433.510
132.5	496.617	498.278	487.083	463.218	445.688
133.0	505.413	507.135	496.063	474.720	458.113
133.5	513.839	515.931	505.228	485.423	470.599
134.0	522.143	524.480	514.270	495.571	483.208
134.5	530.385	533.091	523.066	505.843	495.018
135.0	538.566	541.703	531.923	515.623	506.704
135.5	546.623	550.006	540.780	524.972	518.145
136.0	554.681	558.002	549.453	533.829	528.970
136.5	562.554	565.691	557.756	542.318	538.996
137.0	570.119	573.010	565.691	551.236	548.284
137.5	577.623	580.145	573.564	560.093	557.203
138.0	584.820	587.280	581.314	568.643	565.937
138.5	591.893	594.231	589.002	576.639	574.425

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CANDELA TABULATION - (Cont.)

139.0	598.598	600.935	596.199	584.020	582.482
139.5	604.871	607.332	602.965	591.094	590.232
140.0	611.207	613.606	609.608	597.921	597.860
140.5	617.542	620.002	616.312	604.625	605.302
141.0	623.693	625.538	623.078	611.207	612.375
141.5	629.844	631.689	629.229	618.157	618.772
142.0	635.380	637.840	635.380	624.923	625.538
142.5	640.300	643.376	640.915	631.689	631.689
143.0	645.836	648.911	647.066	637.840	637.840
143.5	651.372	654.447	652.602	643.991	643.991
144.0	656.907	659.983	658.753	650.141	650.141
144.5	661.828	664.903	664.288	656.292	656.292
145.0	667.364	669.824	669.209	661.828	662.443
145.5	672.284	674.130	674.130	667.979	668.594
146.0	677.205	679.050	679.665	674.130	674.745
146.5	682.126	683.971	685.201	679.665	680.280
147.0	686.431	688.892	689.507	685.816	686.431
147.5	690.737	693.197	694.427	691.352	691.967
148.0	695.042	697.503	699.348	696.888	697.503
148.5	699.348	701.808	703.654	701.808	703.038
149.0	703.654	705.499	707.959	706.729	708.574
149.5	707.344	709.804	712.265	711.650	714.110
150.0	711.035	714.110	715.955	715.955	719.031
150.5	715.340	718.416	720.261	720.876	724.566
151.0	719.031	722.721	723.951	725.181	728.872
151.5	722.721	726.412	728.257	729.487	733.793
152.0	726.412	730.717	731.947	733.793	737.483
152.5	730.717	734.408	735.023	737.483	741.789
153.0	734.408	738.098	738.713	741.174	745.479
153.5	738.098	741.789	741.789	744.249	749.170
154.0	741.789	745.479	745.479	747.939	752.245
154.5	744.864	749.170	748.555	751.015	755.936
155.0	748.555	752.860	751.630	754.090	759.011
155.5	752.245	755.936	754.705	757.166	761.471
156.0	755.936	759.626	757.781	760.241	764.547
156.5	759.626	762.701	760.856	762.701	767.007
157.0	763.317	765.777	763.932	765.777	769.467
157.5	766.392	768.852	767.007	768.852	771.928
158.0	770.082	771.313	770.082	771.313	774.388
158.5	773.158	774.388	772.543	774.388	776.848
159.0	775.618	776.848	775.618	776.848	779.309
159.5	778.694	779.924	778.694	779.309	782.384
160.0	781.154	782.384	781.154	781.769	784.844
160.5	782.999	784.229	783.614	784.229	787.920
161.0	785.459	786.690	786.690	786.690	790.380
161.5	787.920	789.150	789.150	789.150	793.456
162.0	790.380	790.995	791.610	792.225	795.916
162.5	792.840	793.456	794.071	794.686	798.991
163.0	794.686	795.301	796.531	797.146	801.452
163.5	797.146	797.146	798.376	798.991	803.912
164.0	798.991	799.606	800.221	801.452	806.372
164.5	800.837	801.452	802.682	803.297	808.833
165.0	802.682	803.297	803.912	805.757	810.678
165.5	803.912	805.142	805.757	807.602	812.523
166.0	805.757	806.987	806.987	809.448	814.983
166.5	807.602	808.217	808.217	810.678	816.214

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CANDELA TABULATION - (Cont.)

167.0	809.448	810.063	810.063	811.908	818.059
167.5	810.678	811.293	811.293	813.753	819.289
168.0	812.523	813.138	812.523	814.983	820.519
168.5	813.753	814.368	813.138	816.214	821.749
169.0	815.598	815.598	814.368	816.829	822.979
169.5	816.829	816.829	815.598	817.444	823.595
170.0	818.059	818.059	816.829	818.674	824.210
170.5	819.289	819.289	817.444	819.289	824.825
171.0	820.519	820.519	818.674	819.904	825.440
171.5	821.749	821.134	819.289	819.904	826.055
172.0	822.364	822.364	819.904	820.519	826.670
172.5	823.595	822.979	820.519	821.134	826.670
173.0	824.210	823.595	821.134	821.134	827.285
173.5	825.440	824.825	821.134	821.749	827.285
174.0	826.055	825.440	821.749	822.364	827.285
174.5	826.670	825.440	822.364	822.364	827.900
175.0	827.285	826.055	822.364	822.364	827.900
175.5	827.900	826.670	822.979	822.979	827.900
176.0	827.900	826.670	822.979	822.979	827.900
176.5	828.515	827.285	822.979	822.979	827.900
177.0	828.515	827.285	823.595	823.595	827.900
177.5	829.130	827.285	823.595	823.595	827.900
178.0	829.130	827.285	823.595	823.595	827.900
178.5	829.130	827.900	823.595	823.595	827.900
179.0	829.130	827.900	824.210	823.595	827.900
179.5	829.130	827.900	824.210	823.595	827.900
180.0	826.055	826.055	826.055	826.055	826.055

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1027.96	N.A.	12.10
0-30	2116.1	N.A.	24.80
0-40	3317.35	N.A.	38.90
0-60	5359.22	N.A.	62.90
0-80	6378.37	N.A.	74.90
0-90	6486.89	N.A.	76.20
10-90	6216.3	N.A.	73.00
20-40	2289.39	N.A.	26.90
20-50	3408.59	N.A.	40.00
40-70	2698.48	N.A.	31.70
60-80	1019.15	N.A.	12.00
70-80	362.54	N.A.	4.30
80-90	108.53	N.A.	1.30
90-110	103.90	N.A.	1.20
90-120	267.12	N.A.	3.10
90-130	558.17	N.A.	6.60
90-150	1378.33	N.A.	16.20
90-180	2030.98	N.A.	23.80
110-180	1927.08	N.A.	22.60
0-180	8517.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.59
10-20	757.36
20-30	1088.14
30-40	1201.25
40-50	1119.2
50-60	922.67
60-70	656.61
70-80	362.54
80-90	108.53
90-100	23.21
100-110	80.69
110-120	163.22
120-130	291.05
130-140	403.98
140-150	416.18
150-160	346.98
160-170	227.13
170-180	78.54

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	88	87	84	81	79	77	75	71	70	68	65
2	95	88	81	76	90	84	78	73	76	72	68	70	66	63	63	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	43	50	45	41	46	42	38	36
6	68	56	48	42	65	54	46	40	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	30	28
8	59	46	38	33	56	45	37	32	41	35	31	38	33	29	36	31	28	25
9	55	43	35	30	53	41	34	29	38	32	28	35	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
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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	19.7	20.9	20.4	21.6	22.4	18.6	19.7	19.3	20.4	21.3
	3H	21.4	22.4	22.1	23.1	24.0	20.2	21.2	20.9	21.9	22.8
	4H	21.9	22.9	22.6	23.6	24.5	20.8	21.7	21.5	22.4	23.3
	6H	22.3	23.2	23.1	23.9	24.8	21.2	22.1	21.9	22.8	23.7
	8H	22.4	23.3	23.2	24.0	24.9	21.4	22.2	22.1	23.0	23.9
	12H	22.5	23.3	23.3	24.1	25.0	21.5	22.3	22.3	23.0	24.0

UGR Viewed Endwise

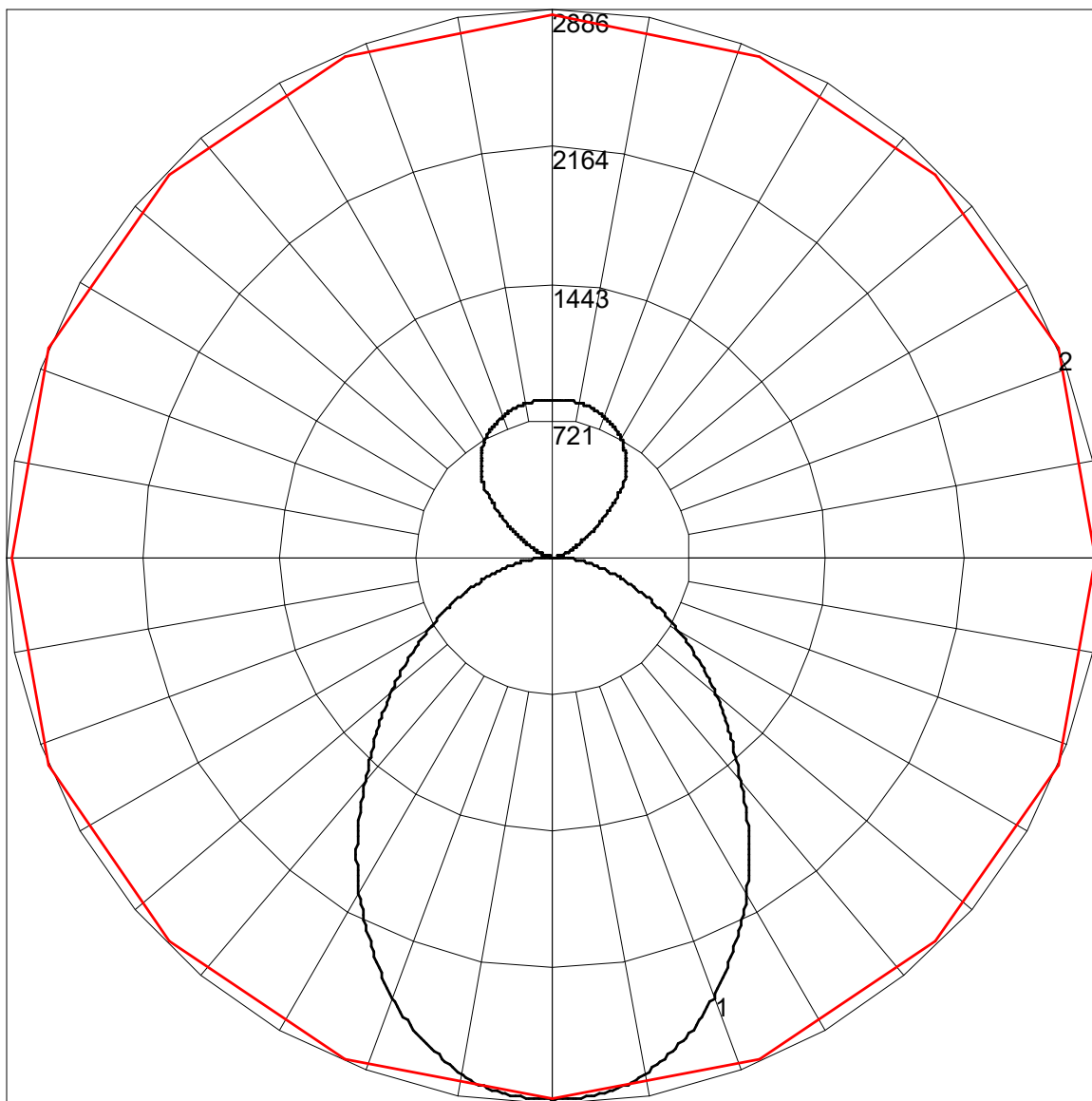
4H	2H	20.1	21.1	20.9	21.8	22.7	19.2	20.2	20.0	20.9	21.8
	3H	22.0	22.8	22.7	23.5	24.5	21.0	21.8	21.8	22.6	23.5
	4H	22.7	23.4	23.5	24.2	25.1	21.7	22.4	22.5	23.2	24.1
	6H	23.2	23.8	24.0	24.6	25.6	22.3	22.9	23.1	23.7	24.6
	8H	23.4	24.0	24.2	24.8	25.7	22.5	23.1	23.3	23.9	24.8
	12H	23.5	24.0	24.3	24.8	25.8	22.7	23.2	23.5	24.0	25.0

8H	4H	22.9	23.5	23.7	24.3	25.2	22.0	22.6	22.8	23.4	24.3
	6H	23.5	24.0	24.3	24.8	25.8	22.7	23.2	23.5	24.0	25.0
	8H	23.8	24.2	24.6	25.0	26.0	23.0	23.4	23.8	24.3	25.2
	12H	23.9	24.3	24.8	25.1	26.2	23.2	23.6	24.1	24.5	25.5

12H	4H	22.9	23.4	23.7	24.2	25.2	22.0	22.5	22.8	23.4	24.3
	6H	23.6	24.0	24.4	24.8	25.8	22.8	23.2	23.6	24.0	25.0
	8H	23.8	24.2	24.7	25.0	26.1	23.1	23.5	23.9	24.3	25.3

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 2885.572 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.)