

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMR2XG-L33-927-CA-DIM-UNV (A ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #4792155668.03

[TESTLAB] UL, LLC

[ISSUE DATE] 2026-08-07

[TEST DATE] 3/17/2026

[MANUFAC] H E Williams Inc

[LUMCAT] CMR2xG-L33-927-CA-DIM-UNV (A ONLY)

[LUMINAIRE] 2' x 2' multi-function recessed troffer with door frame; door

[MORE] frame has arrangement of curved diffused acrylic lenses

[OTHER] This test was performed using the calibrated photodetector method

[MORE] of absolute photometry.

[OTHER] The reported results were measured in a facility that meets the

[MORE] requirements of ANSI/IES LM-75-19. The device under test emits no

[MORE] detectable uplight as defined by ANSI/IES LM-75-19.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	25.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.75 ft
Luminous Width (90-270)	1.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2702	3125	3554
55	2503	3147	3707
65	2181	3073	3578
75	1582	2493	2726
85	619	634	462

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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	882.510	882.510	882.510	882.510	882.510
0.5	882.180	881.849	882.841	884.493	878.213
1.0	885.485	880.527	883.502	882.510	882.180
1.5	882.841	879.205	882.841	881.849	879.205
2.0	882.180	878.213	879.866	885.485	881.849
2.5	882.510	877.552	879.866	884.163	877.222
3.0	881.519	879.205	881.188	882.180	879.866
3.5	882.510	879.536	877.883	882.180	881.188
4.0	878.213	876.561	880.858	881.188	879.866
4.5	878.874	876.891	877.222	880.527	876.230
5.0	879.205	877.552	878.213	877.883	879.866
5.5	879.536	875.569	877.552	882.510	879.536
6.0	877.222	875.900	875.569	879.536	878.544
6.5	873.917	873.586	877.222	880.197	878.213
7.0	875.569	873.256	875.900	880.197	873.586
7.5	872.925	871.272	873.256	877.552	874.908
8.0	872.264	869.289	874.247	877.222	874.578
8.5	867.306	868.628	872.264	874.247	873.917
9.0	868.959	867.967	872.264	874.578	874.247
9.5	868.959	866.314	868.959	875.900	872.594
10.0	864.992	865.323	867.637	871.933	874.578
10.5	860.365	863.670	867.967	870.942	870.281
11.0	853.754	859.373	864.001	870.281	873.256
11.5	858.382	858.712	862.018	869.950	868.959
12.0	857.060	856.399	861.356	869.620	867.637
12.5	856.068	853.754	861.356	867.306	865.323
13.0	848.466	851.771	857.721	867.306	867.637
13.5	847.474	849.788	857.721	863.340	870.281
14.0	845.491	849.457	856.399	861.356	867.967
14.5	844.830	846.152	852.102	862.348	862.679
15.0	839.872	841.855	850.780	860.034	863.009
15.5	840.203	837.558	848.135	858.382	856.729
16.0	834.253	835.245	847.805	857.721	864.001
16.5	833.923	832.931	844.830	856.729	858.712
17.0	830.287	830.287	842.847	853.093	859.704
17.5	826.320	826.982	839.872	851.441	856.729
18.0	819.710	823.346	837.889	851.441	854.085
18.5	820.371	823.346	836.236	848.466	848.796
19.0	815.083	815.744	830.948	847.805	849.457
19.5	812.769	814.752	830.287	845.822	847.474
20.0	806.158	812.108	825.990	844.500	843.838
20.5	807.150	807.480	825.329	842.516	843.838
21.0	794.590	803.845	820.702	842.516	843.838
21.5	794.920	801.531	818.718	837.889	840.864
22.0	793.929	797.234	814.752	835.575	841.525
22.5	789.301	793.268	812.108	833.923	835.575
23.0	782.691	790.293	812.438	833.262	838.550
23.5	781.369	786.657	806.819	830.287	837.228
24.0	776.741	782.030	805.167	826.651	834.584
24.5	769.470	778.394	801.531	824.998	829.956
25.0	766.164	774.097	798.226	820.702	828.304
25.5	762.529	770.131	794.590	820.371	825.990
26.0	757.571	765.834	790.954	818.388	825.990
26.5	752.282	761.537	786.657	814.421	822.024

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27.0	749.307	757.901	786.657	811.777	819.710
27.5	743.688	752.613	780.377	810.455	821.693
28.0	737.078	747.655	774.097	808.141	814.091
28.5	734.434	743.688	773.767	805.167	812.769
29.0	729.145	740.053	768.148	803.514	814.091
29.5	724.848	735.095	765.834	797.895	808.141
30.0	719.560	729.476	762.529	797.895	809.464
30.5	713.610	726.501	759.884	794.259	807.811
31.0	710.305	720.551	755.918	791.615	801.861
31.5	703.695	716.255	750.299	788.971	801.861
32.0	700.059	711.627	746.333	785.996	800.209
32.5	692.787	706.669	742.366	784.343	797.895
33.0	689.482	701.381	740.383	780.377	793.598
33.5	683.202	696.092	734.103	775.089	789.962
34.0	677.252	690.804	731.459	776.080	788.310
34.5	671.964	685.846	726.832	770.461	785.996
35.0	666.014	680.558	723.196	768.809	785.004
35.5	661.056	674.278	718.899	764.181	779.716
36.0	655.107	669.981	714.932	761.206	779.055
36.5	649.157	664.692	710.636	758.232	773.767
37.0	643.538	659.734	705.678	753.604	770.792
37.5	636.928	653.785	701.381	751.952	771.783
38.0	629.656	648.827	697.745	746.663	765.834
38.5	626.020	642.877	692.787	745.011	763.520
39.0	619.079	637.919	687.829	740.053	760.215
39.5	612.469	630.978	683.532	737.739	757.240
40.0	606.850	626.351	678.905	733.773	753.935
40.5	600.570	620.071	673.616	728.815	751.291
41.0	594.951	615.113	669.320	725.179	745.011
41.5	588.340	609.494	664.692	721.543	740.714
42.0	581.399	603.544	659.404	715.924	737.078
42.5	575.450	597.264	654.115	711.958	732.781
43.0	568.839	591.976	649.818	708.322	731.459
43.5	562.890	585.365	643.869	703.695	727.823
44.0	556.609	579.746	639.242	698.737	722.865
44.5	550.329	573.797	634.614	695.431	720.221
45.0	544.049	567.847	629.326	690.473	715.594
45.5	537.439	561.237	624.368	687.168	709.644
46.0	530.167	555.618	618.749	682.210	706.339
46.5	523.557	549.007	613.791	676.591	701.711
47.0	518.599	542.727	608.502	671.964	696.753
47.5	510.666	536.117	602.883	667.336	692.787
48.0	505.047	530.167	596.934	662.048	686.838
48.5	498.437	524.218	591.315	656.098	681.219
49.0	491.826	517.938	586.688	652.463	676.261
49.5	483.563	511.327	580.738	645.852	672.625
50.0	477.944	505.708	575.450	640.894	666.675
50.5	470.672	498.767	569.170	635.936	661.056
51.0	463.731	492.156	563.220	629.326	654.776
51.5	456.459	485.876	557.271	622.715	649.157
52.0	450.179	478.935	550.991	618.749	643.208
52.5	443.569	472.325	545.041	612.799	637.258
53.0	435.636	465.714	539.091	604.867	630.978
53.5	429.026	459.434	533.142	599.909	626.020
54.0	422.085	452.824	526.862	592.968	618.418
54.5	414.482	446.213	519.921	586.688	612.138

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CANDELA TABULATION - (Cont.)

55.0	408.863	438.941	513.971	579.085	605.528
55.5	401.922	432.331	507.030	572.805	598.587
56.0	394.981	425.720	500.750	566.525	591.976
56.5	387.710	419.440	493.809	559.254	585.365
57.0	380.438	412.830	487.199	552.313	577.433
57.5	373.497	406.219	480.588	544.710	569.170
58.0	366.225	399.609	473.316	537.439	560.576
58.5	358.623	392.668	466.706	530.498	552.643
59.0	351.682	385.726	460.095	522.565	544.710
59.5	344.410	378.455	453.154	514.963	536.778
60.0	337.139	371.514	445.552	507.030	527.854
60.5	329.867	364.242	438.280	498.437	519.260
61.0	322.430	356.970	431.009	489.512	510.336
61.5	315.059	350.029	423.076	481.249	501.411
62.0	307.656	342.758	416.135	472.655	491.165
62.5	300.153	335.156	409.194	463.401	480.919
63.0	292.815	328.148	401.922	454.807	471.333
63.5	285.213	320.712	394.320	445.221	462.078
64.0	277.611	313.341	386.057	435.636	451.502
64.5	269.942	305.871	378.124	426.051	441.255
65.0	262.472	298.434	369.861	416.135	430.678
65.5	254.837	291.096	361.928	407.541	419.440
66.0	247.202	283.626	353.335	397.625	410.185
66.5	239.501	276.255	345.071	387.049	399.278
67.0	231.866	268.686	336.478	376.802	388.040
67.5	224.462	261.216	327.553	365.564	377.133
68.0	216.793	253.680	318.398	354.987	365.895
68.5	209.125	246.111	309.474	344.410	354.326
69.0	201.589	238.641	300.186	333.172	342.427
69.5	194.152	231.039	291.228	322.364	330.264
70.0	186.881	223.602	281.874	310.994	318.695
70.5	179.576	216.000	272.322	299.459	306.995
71.0	172.139	208.464	262.770	288.221	295.426
71.5	165.066	200.928	252.920	277.214	283.725
72.0	157.761	193.392	243.269	266.042	271.892
72.5	150.688	185.922	233.353	254.705	260.093
73.0	143.813	178.551	223.503	243.335	248.128
73.5	136.872	171.048	213.587	231.799	236.295
74.0	130.030	163.611	203.705	220.231	224.627
74.5	123.386	156.274	193.656	209.059	212.860
75.0	116.610	148.870	183.774	197.953	200.961
75.5	109.967	141.565	173.891	186.781	189.029
76.0	103.422	134.294	164.173	175.477	176.833
76.5	96.977	127.055	154.423	164.107	164.603
77.0	90.829	119.883	144.804	152.671	152.638
77.5	84.648	112.842	135.252	141.466	140.970
78.0	78.699	105.703	125.865	130.360	129.071
78.5	72.782	98.597	116.511	119.354	117.106
79.0	66.998	91.589	107.323	108.314	104.711
79.5	61.478	84.681	98.332	97.142	92.713
80.0	56.190	77.872	89.507	86.036	81.079
80.5	51.034	71.196	80.748	75.162	69.940
81.0	46.109	64.618	72.187	64.750	59.231
81.5	41.349	58.206	63.792	54.835	49.282
82.0	36.887	52.025	55.628	45.514	40.060
82.5	32.656	46.142	47.662	37.019	32.326

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CANDELA TABULATION - (Cont.)

83.0	28.690	40.424	40.027	29.714	25.847
83.5	24.988	35.069	32.821	23.699	20.856
84.0	21.550	30.045	26.244	18.972	16.989
84.5	18.311	25.285	20.460	15.337	13.882
85.0	15.370	20.889	15.733	12.362	11.469
85.5	12.692	16.791	11.998	10.048	9.519
86.0	10.279	13.122	9.156	8.197	7.933
86.5	8.197	9.850	7.040	6.743	6.644
87.0	6.346	7.139	5.454	5.553	5.487
87.5	4.760	4.991	4.330	4.495	4.528
88.0	3.504	3.471	3.371	3.603	3.636
88.5	2.479	2.413	2.611	2.809	2.876
89.0	1.719	1.686	1.950	2.115	2.181
89.5	1.157	1.190	1.421	1.520	1.487
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR2XG-L33-927-CA-DIM-UNV (A ONLY).IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMR2XG-L33-927-CA-DIM-UNV (A ONLY).IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	323.89	N.A.	12.20
0-30	691.91	N.A.	26.10
0-40	1145.19	N.A.	43.30
0-60	2085.74	N.A.	78.80
0-80	2620.39	N.A.	99.00
0-90	2647.1	N.A.	100.00
10-90	2563.54	N.A.	96.80
20-40	821.30	N.A.	31.00
20-50	1306.64	N.A.	49.40
40-70	1293.13	N.A.	48.90
60-80	534.64	N.A.	20.20
70-80	182.08	N.A.	6.90
80-90	26.71	N.A.	1.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2647.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.55
10-20	240.33
20-30	368.02
30-40	453.27
40-50	485.35
50-60	455.21
60-70	352.57
70-80	182.08
80-90	26.71
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

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	15.2	16.9	15.6	17.2	17.5	17.4	19.1	17.8	19.4	19.7
	3H	16.8	18.3	17.1	18.6	18.9	19.3	20.8	19.7	21.1	21.5
	4H	17.3	18.7	17.6	19.0	19.4	19.9	21.3	20.3	21.6	22.0
	6H	17.5	18.8	17.9	19.2	19.6	20.1	21.4	20.5	21.8	22.2
	8H	17.6	18.8	18.0	19.2	19.6	20.1	21.4	20.6	21.8	22.2
	12H	17.6	18.8	18.0	19.1	19.6	20.1	21.3	20.6	21.7	22.1

UGR Viewed Endwise

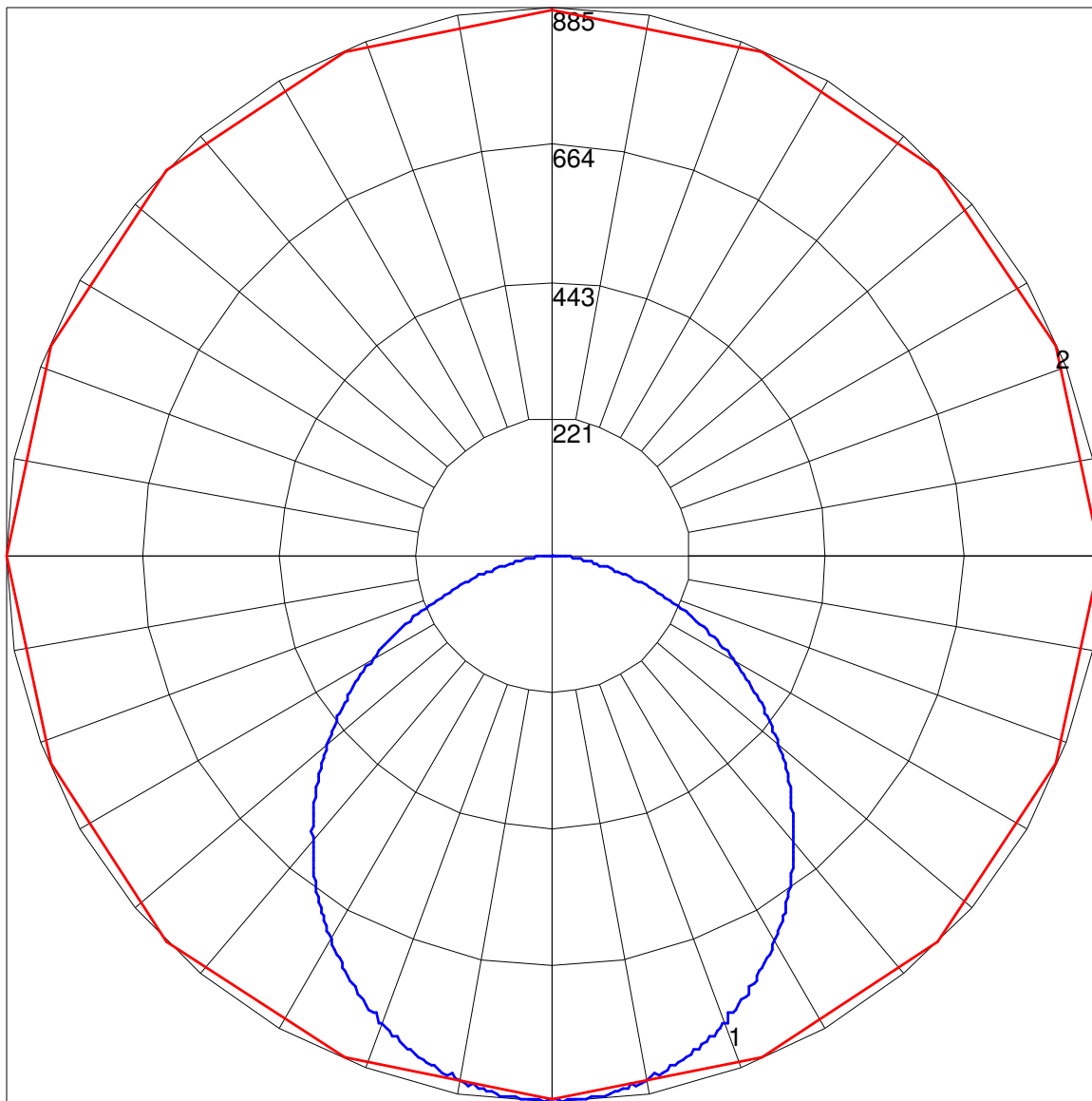
4H	2H	16.2	17.6	16.6	18.0	18.3	17.9	19.3	18.3	19.7	20.0
	3H	18.0	19.2	18.4	19.6	20.0	20.0	21.2	20.4	21.6	22.0
	4H	18.6	19.6	19.0	20.1	20.5	20.7	21.8	21.1	22.2	22.6
	6H	18.9	19.9	19.4	20.3	20.8	21.1	22.0	21.5	22.4	22.9
	8H	19.0	19.9	19.4	20.3	20.8	21.1	22.0	21.5	22.4	22.9
	12H	19.0	19.8	19.5	20.3	20.7	21.1	21.9	21.6	22.3	22.8

8H	4H	19.0	19.9	19.5	20.3	20.8	20.9	21.8	21.4	22.2	22.7
	6H	19.5	20.2	19.9	20.7	21.1	21.3	22.0	21.8	22.5	23.0
	8H	19.6	20.2	20.1	20.7	21.2	21.4	22.0	21.9	22.5	23.0
	12H	19.6	20.2	20.1	20.7	21.2	21.4	21.9	21.9	22.4	23.0

12H	4H	19.0	19.8	19.5	20.3	20.8	20.9	21.7	21.4	22.2	22.6
	6H	19.5	20.2	20.0	20.6	21.2	21.3	22.0	21.9	22.4	23.0
	8H	19.6	20.2	20.1	20.7	21.3	21.4	22.0	21.9	22.4	23.0

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 885.485 Located At Horizontal Angle = 0, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)