



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GH-4-L300-840-FA-HA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13309242.03A
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 06-MAY-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] GH-4-L300-840-FA-HA-DIM-UNV
 [LUMINAIRE] Formed white steel housing, lens enclosures
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, High Bay
 [_SEARCH_MOUNTING] Pendant, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	31211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	215.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.73 ft
Luminous Width (90-270)	1.42 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15861	17219	18958
55	13584	15936	18331
65	11108	14355	16371
75	8502	11701	11817
85	5056	7288	8502

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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	10458.302	10458.302	10458.302	10458.302	10458.302
0.5	10472.931	10458.302	10462.292	10456.972	10441.013
1.0	10467.611	10455.642	10462.292	10458.302	10435.694
1.5	10463.622	10454.312	10463.622	10456.972	10435.694
2.0	10456.972	10448.993	10459.632	10452.982	10433.034
2.5	10448.993	10446.333	10455.642	10448.993	10430.374
3.0	10450.323	10434.364	10451.652	10445.003	10425.055
3.5	10437.024	10429.044	10445.003	10441.013	10426.384
4.0	10430.374	10423.725	10439.683	10437.024	10415.745
4.5	10425.055	10413.085	10435.694	10430.374	10411.756
5.0	10413.085	10405.106	10423.725	10419.735	10410.426
5.5	10401.116	10389.147	10415.745	10413.085	10397.127
6.0	10381.168	10381.168	10403.776	10407.766	10391.807
6.5	10366.539	10370.529	10393.137	10399.787	10381.168
7.0	10351.910	10353.240	10379.838	10386.488	10370.529
7.5	10331.962	10338.611	10365.209	10375.848	10362.549
8.0	10317.333	10319.993	10351.910	10361.220	10350.580
8.5	10298.714	10300.044	10335.952	10349.250	10341.271
9.0	10274.776	10278.766	10319.993	10337.281	10326.642
9.5	10246.848	10258.818	10298.714	10319.993	10313.343
10.0	10225.570	10230.890	10284.086	10305.364	10296.055
10.5	10202.962	10210.941	10262.807	10285.415	10286.745
11.0	10172.374	10189.663	10244.189	10270.787	10274.776
11.5	10151.096	10163.065	10222.910	10256.158	10258.818
12.0	10117.849	10135.137	10200.302	10238.869	10241.529
12.5	10091.251	10107.209	10177.694	10221.580	10224.240
13.0	10056.673	10077.952	10155.086	10202.962	10208.281
13.5	10024.756	10048.694	10128.488	10184.343	10189.663
14.0	9991.508	10018.106	10103.220	10159.075	10173.704
14.5	9959.591	9986.189	10077.952	10137.797	10149.766
15.0	9923.684	9952.941	10050.024	10116.519	10129.818
15.5	9887.777	9918.364	10022.096	10093.910	10108.539
16.0	9850.539	9883.787	9992.838	10069.972	10088.591
16.5	9810.643	9847.880	9962.251	10044.704	10065.983
17.0	9769.416	9810.643	9931.663	10019.436	10043.374
17.5	9726.859	9772.076	9899.746	9992.838	10019.436
18.0	9682.973	9732.179	9867.828	9966.240	9994.168
18.5	9640.416	9690.952	9834.581	9938.313	9970.230
19.0	9593.870	9648.395	9800.003	9909.055	9943.632
19.5	9545.993	9605.839	9765.426	9879.797	9917.034
20.0	9498.117	9561.952	9729.519	9849.210	9890.436
20.5	9448.911	9518.065	9693.612	9819.952	9862.509
21.0	9398.375	9471.519	9657.705	9789.364	9835.911
21.5	9347.839	9424.973	9619.138	9758.777	9807.983
22.0	9297.303	9377.097	9579.241	9726.859	9778.725
22.5	9245.437	9329.220	9540.674	9693.612	9750.797
23.0	9192.241	9280.014	9499.447	9661.694	9721.540
23.5	9137.715	9229.478	9456.890	9628.447	9690.952
24.0	9081.860	9177.612	9414.334	9595.199	9661.694
24.5	9024.674	9125.746	9370.447	9560.622	9631.107
25.0	8967.489	9072.550	9325.231	9524.715	9599.189
25.5	8907.643	9018.025	9280.014	9488.808	9567.272
26.0	8847.798	8962.169	9233.468	9451.571	9534.024
26.5	8786.623	8904.983	9185.591	9414.334	9500.777

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CANDELA TABULATION - (Cont.)

27.0	8722.788	8847.798	9137.715	9375.767	9466.200
27.5	8658.953	8787.953	9088.509	9337.200	9430.292
28.0	8592.458	8728.107	9039.303	9295.973	9393.055
28.5	8525.963	8666.932	8987.437	9256.076	9354.488
29.0	8456.808	8604.427	8935.571	9212.189	9315.921
29.5	8386.324	8540.592	8883.705	9169.633	9274.695
30.0	8315.840	8475.427	8829.179	9124.416	9233.468
30.5	8244.025	8410.262	8774.654	9079.200	9190.911
31.0	8172.211	8342.437	8718.798	9032.653	9145.695
31.5	8097.737	8273.283	8662.942	8984.777	9100.478
32.0	8023.262	8204.128	8604.427	8935.571	9053.932
32.5	7948.788	8133.644	8545.912	8885.035	9006.056
33.0	7871.654	8063.159	8487.396	8833.169	8956.849
33.5	7793.190	7990.015	8426.221	8781.303	8907.643
34.0	7716.056	7915.541	8365.046	8728.107	8855.777
34.5	7636.263	7841.067	8301.211	8672.252	8802.581
35.0	7556.469	7765.263	8237.376	8615.066	8749.386
35.5	7474.015	7686.799	8170.881	8557.881	8693.530
36.0	7391.562	7609.665	8105.716	8499.365	8639.004
36.5	7307.778	7531.201	8037.891	8440.850	8583.149
37.0	7221.335	7451.407	7970.067	8382.334	8527.293
37.5	7136.222	7371.613	7902.242	8321.159	8467.448
38.0	7048.449	7290.490	7831.757	8258.654	8410.262
38.5	6960.676	7210.696	7761.273	8197.479	8350.417
39.0	6872.902	7129.572	7689.459	8134.974	8289.242
39.5	6783.799	7048.449	7617.644	8073.798	8229.396
40.0	6696.026	6965.995	7547.160	8011.293	8168.221
40.5	6605.593	6883.542	7476.675	7948.788	8107.046
41.0	6516.490	6802.418	7404.861	7884.953	8045.871
41.5	6428.717	6723.954	7333.046	7821.118	7984.695
42.0	6340.944	6640.171	7262.562	7758.613	7922.190
42.5	6251.841	6557.717	7190.748	7694.778	7861.015
43.0	6164.068	6475.263	7120.263	7632.273	7799.840
43.5	6077.625	6394.140	7049.779	7569.768	7738.665
44.0	5989.851	6313.016	6980.624	7507.263	7676.160
44.5	5903.408	6233.222	6910.139	7443.428	7614.984
45.0	5818.295	6153.429	6839.655	7380.923	7553.809
45.5	5733.182	6072.305	6767.841	7315.758	7492.634
46.0	5648.068	5991.181	6697.356	7253.253	7431.459
46.5	5562.955	5911.388	6626.872	7189.418	7368.954
47.0	5477.842	5831.594	6556.387	7125.583	7306.448
47.5	5394.058	5751.800	6485.903	7061.748	7243.943
48.0	5308.945	5672.006	6415.418	6996.583	7181.438
48.5	5225.161	5592.213	6344.934	6930.088	7118.933
49.0	5140.048	5513.749	6273.119	6864.923	7055.098
49.5	5054.935	5433.955	6202.635	6799.758	6993.923
50.0	4971.151	5355.491	6132.150	6733.263	6928.758
50.5	4886.038	5277.027	6060.336	6665.439	6863.593
51.0	4802.254	5198.563	5989.851	6597.614	6798.428
51.5	4717.141	5120.099	5919.367	6529.789	6731.933
52.0	4632.028	5041.636	5847.553	6461.965	6665.439
52.5	4548.244	4961.842	5774.408	6392.810	6598.944
53.0	4464.461	4883.378	5701.264	6323.655	6532.449
53.5	4382.007	4804.914	5629.450	6253.171	6464.624
54.0	4298.224	4726.450	5556.305	6182.686	6394.140
54.5	4215.770	4647.986	5484.491	6112.202	6322.325

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55.0	4133.317	4569.523	5410.017	6040.388	6249.181
55.5	4049.533	4491.059	5335.543	5967.243	6173.377
56.0	3968.410	4413.925	5261.068	5895.429	6100.233
56.5	3887.286	4335.461	5185.264	5820.955	6025.759
57.0	3806.162	4258.327	5110.790	5745.151	5948.625
57.5	3727.698	4179.863	5036.316	5668.017	5868.831
58.0	3646.575	4102.729	4960.512	5589.553	5786.377
58.5	3566.781	4025.595	4883.378	5511.089	5698.604
59.0	3488.317	3949.791	4807.574	5431.295	5612.161
59.5	3408.523	3872.657	4731.770	5351.501	5527.048
60.0	3331.389	3796.853	4655.966	5269.048	5441.934
60.5	3252.926	3722.379	4578.832	5185.264	5350.172
61.0	3177.121	3647.905	4503.028	5098.821	5259.739
61.5	3099.988	3574.760	4427.224	5012.378	5166.646
62.0	3024.183	3501.616	4351.420	4925.935	5069.563
62.5	2949.709	3429.802	4276.945	4838.162	4972.481
63.0	2873.905	3357.987	4201.141	4749.059	4876.729
63.5	2799.431	3287.503	4124.007	4657.296	4776.986
64.0	2726.287	3217.018	4048.203	4564.203	4675.914
64.5	2654.472	3147.864	3973.729	4469.780	4573.512
65.0	2582.658	3078.709	3896.595	4375.358	4469.780
65.5	2510.844	3009.555	3820.791	4279.605	4363.389
66.0	2441.689	2941.730	3742.327	4183.853	4258.327
66.5	2371.205	2875.235	3663.863	4088.100	4154.595
67.0	2303.380	2808.740	3584.070	3989.688	4048.203
67.5	2235.555	2742.245	3505.606	3888.616	3940.482
68.0	2167.730	2675.751	3425.812	3790.204	3830.100
68.5	2101.236	2609.256	3344.688	3691.791	3721.049
69.0	2036.071	2542.761	3264.895	3593.379	3610.668
69.5	1972.236	2476.266	3183.771	3492.307	3500.286
70.0	1908.401	2409.772	3102.647	3391.235	3389.905
70.5	1844.566	2343.277	3020.194	3287.503	3278.194
71.0	1782.061	2278.112	2936.410	3182.441	3165.152
71.5	1720.885	2212.947	2855.287	3080.039	3053.441
72.0	1658.380	2147.782	2772.833	2976.307	2943.060
72.5	1598.535	2083.947	2693.039	2873.905	2836.668
73.0	1538.690	2020.112	2611.916	2771.503	2731.606
73.5	1480.174	1954.947	2529.462	2669.101	2625.215
74.0	1421.659	1892.442	2448.338	2568.029	2524.143
74.5	1363.143	1828.607	2365.885	2465.627	2424.400
75.0	1306.357	1764.772	2283.431	2368.545	2325.988
75.5	1250.235	1703.597	2202.308	2272.792	2230.236
76.0	1194.513	1639.762	2121.184	2179.700	2139.803
76.5	1139.854	1577.257	2040.060	2089.267	2053.359
77.0	1086.392	1514.752	1958.937	2001.493	1966.916
77.5	1033.994	1453.576	1877.813	1913.720	1884.463
78.0	981.862	1393.731	1798.019	1831.267	1805.999
78.5	931.459	1333.886	1718.226	1750.143	1728.865
79.0	881.322	1274.306	1639.762	1674.339	1655.720
79.5	832.914	1215.525	1562.628	1599.865	1585.236
80.0	784.772	1157.541	1486.824	1528.050	1518.741
80.5	738.092	1100.223	1412.350	1458.896	1453.576
81.0	691.812	1042.771	1339.205	1391.071	1393.731
81.5	647.659	986.118	1268.189	1326.837	1333.886
82.0	602.842	929.597	1199.167	1264.731	1276.833
82.5	560.019	873.343	1131.343	1205.418	1221.775

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CANDELA TABULATION - (Cont.)

83.0	517.064	817.088	1065.646	1149.030	1167.782
83.5	475.172	760.568	1001.944	1093.174	1116.714
84.0	434.743	706.308	940.369	1039.979	1067.906
84.5	394.048	651.516	880.258	988.379	1020.828
85.0	354.550	597.256	823.073	938.907	974.947
85.5	314.919	543.794	767.616	891.429	930.528
86.0	275.155	490.865	714.154	845.282	887.440
86.5	235.259	439.664	663.618	800.996	844.484
87.0	195.894	389.793	614.412	758.041	803.523
87.5	156.396	340.453	567.334	716.681	763.626
88.0	117.563	293.242	523.181	677.050	724.128
88.5	78.464	250.020	483.284	640.079	688.221
89.0	47.610	213.714	450.170	610.156	658.963
89.5	26.731	187.382	422.375	584.755	634.360
90.0	12.368	170.892	400.698	560.950	608.959
90.5	20.613	182.329	407.746	566.935	608.294
91.0	21.677	177.541	400.565	553.104	587.681
91.5	23.539	172.222	390.191	538.608	571.988
92.0	24.736	169.296	382.212	526.905	562.679
92.5	25.667	166.503	376.361	518.260	554.966
93.0	26.997	163.444	370.775	510.946	547.651
93.5	28.460	159.986	365.189	503.898	540.337
94.0	29.923	156.529	359.338	496.849	532.623
94.5	31.519	152.938	353.220	489.668	524.644
95.0	33.380	149.480	346.970	482.486	516.931
95.5	35.641	146.023	340.985	475.172	509.483
96.0	38.035	142.698	335.267	467.990	502.435
96.5	40.429	139.639	329.548	461.075	495.652
97.0	42.557	136.846	323.830	454.159	488.870
97.5	44.552	134.319	318.244	447.244	482.087
98.0	46.014	132.059	312.792	440.861	475.438
98.5	46.945	129.798	307.605	434.477	468.522
99.0	47.477	128.202	302.551	428.227	461.607
99.5	48.009	126.739	297.365	421.976	454.957
100.0	48.408	124.877	292.178	415.592	448.042
100.5	48.674	123.281	287.125	409.342	441.525
101.0	48.940	121.951	282.337	402.825	434.876
101.5	49.339	120.755	277.416	396.309	428.492
102.0	49.605	119.691	272.629	389.925	421.976
102.5	49.871	118.893	267.974	383.542	415.592
103.0	50.137	118.361	263.452	377.291	409.342
103.5	50.270	117.962	259.596	371.573	402.825
104.0	50.669	117.696	255.872	365.987	396.442
104.5	50.802	117.430	252.414	360.269	390.191
105.0	51.068	117.297	249.090	354.683	384.074
105.5	51.467	117.297	245.898	349.098	378.089
106.0	51.600	117.297	243.105	343.645	372.371
106.5	51.999	117.563	240.312	338.193	366.785
107.0	52.265	117.829	237.519	333.006	361.200
107.5	52.531	118.095	234.461	328.085	355.614
108.0	52.797	118.228	231.668	323.564	350.029
108.5	53.063	118.494	229.141	319.441	344.576
109.0	53.196	118.893	226.614	315.584	339.389
109.5	53.462	119.292	223.821	311.595	334.602
110.0	53.728	119.824	221.295	307.472	330.346
110.5	53.861	120.622	218.901	303.349	326.356

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CANDELA TABULATION - (Cont.)

111.0	54.127	121.287	216.773	299.360	322.367
111.5	54.393	122.084	214.645	295.636	318.377
112.0	54.659	123.015	212.650	292.311	314.121
112.5	54.925	124.079	210.789	288.986	309.999
113.0	55.191	125.409	208.927	285.662	306.275
113.5	55.457	126.606	207.331	282.470	302.950
114.0	55.590	127.936	205.735	279.145	299.493
114.5	55.856	129.399	204.006	275.953	296.168
115.0	56.122	130.729	202.676	272.629	292.444
115.5	56.255	132.192	201.346	269.437	288.853
116.0	56.521	133.655	200.016	266.245	285.396
116.5	56.787	134.984	198.819	263.186	281.938
117.0	57.186	136.447	197.623	260.394	278.746
117.5	57.319	137.644	196.426	257.867	275.687
118.0	57.584	139.107	195.495	255.473	272.629
118.5	57.850	140.570	194.431	253.079	269.703
119.0	58.249	141.900	193.500	250.818	266.777
119.5	58.382	143.230	192.569	248.691	264.117
120.0	58.648	144.693	191.904	246.563	261.591
120.5	58.781	146.023	191.106	244.302	259.197
121.0	59.047	147.485	190.441	242.174	256.936
121.5	59.180	148.948	189.643	240.179	254.808
122.0	59.446	150.411	188.978	238.317	252.680
122.5	59.712	152.007	188.446	236.456	250.685
123.0	59.845	153.470	187.914	234.860	248.691
123.5	60.111	154.534	187.648	233.264	246.696
124.0	60.244	155.199	187.249	231.801	244.568
124.5	60.643	155.598	187.116	230.205	242.839
125.0	61.042	155.864	186.983	228.609	241.243
125.5	61.308	155.997	187.116	227.279	239.780
126.0	61.707	156.263	187.515	225.816	238.184
126.5	62.106	156.130	187.914	224.619	236.588
127.0	62.372	155.864	188.579	223.556	235.126
127.5	62.771	155.465	189.510	222.492	233.796
128.0	63.170	154.933	190.308	221.295	232.333
128.5	63.569	154.534	191.106	220.231	231.003
129.0	63.968	154.002	191.771	219.167	229.673
129.5	64.234	153.470	192.569	217.970	228.343
130.0	64.633	152.938	193.367	216.906	227.146
130.5	65.032	152.140	194.165	215.975	225.949
131.0	65.431	151.209	194.963	215.044	224.885
131.5	65.830	150.278	195.761	214.113	223.689
132.0	66.096	149.214	196.426	213.448	222.492
132.5	66.096	148.416	197.224	212.916	221.428
133.0	66.229	147.352	198.022	212.650	220.364
133.5	66.362	146.555	198.819	212.517	219.300
134.0	66.495	145.757	199.750	212.650	218.502
134.5	66.628	145.092	200.681	212.783	217.704
135.0	66.894	144.294	201.479	213.315	217.305
135.5	67.426	143.496	202.144	213.714	217.172
136.0	67.825	142.698	202.942	214.379	217.039
136.5	68.091	141.634	203.873	215.044	217.172
137.0	68.490	140.304	204.937	215.709	217.438
137.5	69.022	139.107	206.001	216.374	217.837
138.0	69.421	137.644	207.331	217.039	218.369
138.5	69.687	135.782	208.395	217.704	219.034

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

139.0	69.421	134.054	209.459	218.635	219.699
139.5	69.288	132.192	210.656	219.566	220.497
140.0	68.490	130.330	211.719	220.497	221.295
140.5	67.825	127.803	212.650	221.428	222.093
141.0	67.293	125.675	213.315	222.359	223.024
141.5	66.495	123.547	213.581	223.290	223.954
142.0	65.697	122.217	212.916	224.087	225.018
142.5	64.766	121.021	211.985	225.151	225.949
143.0	62.505	119.558	210.922	225.949	227.013
143.5	61.973	119.026	209.725	226.747	227.944
144.0	61.574	118.361	208.129	227.545	229.008
144.5	60.244	117.829	206.001	228.343	229.939
145.0	60.111	117.430	203.740	229.274	231.003
145.5	60.510	117.031	201.612	230.072	231.934
146.0	60.909	116.632	199.484	230.737	232.599
146.5	61.308	116.233	197.224	231.535	233.397
147.0	61.840	115.834	194.830	232.333	234.195
147.5	62.372	115.435	192.303	232.998	235.126
148.0	63.037	114.770	190.042	233.264	236.057
148.5	63.569	114.105	187.648	232.998	236.987
149.0	64.367	113.307	185.255	232.200	237.918
149.5	65.032	112.509	182.728	230.737	238.982
150.0	65.830	111.445	180.201	229.008	239.913
150.5	66.628	110.514	177.674	226.880	239.647
151.0	67.559	109.450	175.280	224.220	238.982
151.5	68.357	108.387	172.753	221.428	237.918
152.0	69.022	107.323	170.094	218.369	235.924
152.5	69.421	105.993	167.434	215.177	233.530
153.0	69.820	104.796	165.040	211.852	231.003
153.5	69.953	103.466	162.646	208.661	228.343
154.0	69.953	102.269	160.252	205.336	225.151
154.5	69.953	100.939	157.992	201.878	221.561
155.0	70.086	99.609	155.598	198.287	218.103
155.5	69.953	98.279	153.204	194.830	214.778
156.0	69.820	97.082	150.943	191.505	211.453
156.5	69.820	95.885	148.549	188.047	207.863
157.0	69.687	94.556	146.289	184.723	204.405
157.5	69.288	93.226	144.028	181.531	200.947
158.0	68.889	91.896	142.033	178.605	197.224
158.5	68.224	90.433	140.437	175.812	193.367
159.0	67.559	89.103	138.974	173.019	189.776
159.5	66.761	87.640	137.245	170.360	187.116
160.0	65.830	86.177	135.383	167.567	184.590
160.5	65.032	84.847	133.389	164.774	182.196
161.0	64.101	83.517	131.128	161.848	180.467
161.5	63.303	82.321	128.468	158.923	178.472
162.0	62.771	81.124	125.808	155.997	176.078
162.5	62.638	80.060	123.148	153.071	173.684
163.0	63.037	79.129	120.489	150.411	171.025
163.5	63.303	78.198	118.095	148.150	167.567
164.0	63.835	77.400	115.435	145.757	163.843
164.5	64.101	76.469	112.775	142.831	160.119
165.0	64.367	75.671	110.115	139.240	157.327
165.5	64.500	75.006	107.456	135.250	154.002
166.0	64.500	74.341	104.929	130.995	149.347
166.5	64.633	73.676	102.402	127.271	143.496

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	64.633	73.277	100.008	123.680	137.511
167.5	64.500	72.745	97.481	120.356	131.793
168.0	64.500	72.346	94.955	116.898	126.340
168.5	64.500	72.080	92.428	113.307	121.021
169.0	64.367	71.681	89.901	109.450	115.701
169.5	64.500	71.415	87.640	105.461	110.647
170.0	64.633	71.016	85.645	101.604	105.860
170.5	64.899	70.617	83.783	97.747	101.072
171.0	65.032	70.351	82.188	93.758	96.683
171.5	65.165	70.219	80.991	90.034	92.960
172.0	65.431	70.086	79.927	86.576	89.236
172.5	65.564	69.953	78.996	83.251	85.512
173.0	65.830	69.820	78.198	80.592	82.188
173.5	66.096	69.820	77.267	78.331	79.262
174.0	66.362	69.953	76.469	76.469	77.134
174.5	66.761	70.219	75.671	74.873	75.272
175.0	67.293	70.351	74.873	73.410	73.144
175.5	67.825	70.883	74.341	72.213	71.548
176.0	68.490	71.415	73.942	71.149	69.820
176.5	69.288	72.080	73.809	70.219	67.958
177.0	70.086	72.745	73.676	69.820	66.894
177.5	71.149	73.277	73.676	69.421	66.229
178.0	71.947	73.942	73.543	69.155	66.096
178.5	72.612	74.474	73.543	69.022	66.495
179.0	73.011	74.740	73.676	69.155	67.027
179.5	73.277	74.873	73.942	69.421	67.559
180.0	72.346	72.346	72.346	72.346	72.346

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L300-840-FA-HA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3821.65	N.A.	12.20
0-30	8106.77	N.A.	26.00
0-40	13225.77	N.A.	42.40
0-60	23186.67	N.A.	74.30
0-80	29053.02	N.A.	93.10
0-90	29904.82	N.A.	95.80
10-90	28915.19	N.A.	92.60
20-40	9404.13	N.A.	30.10
20-50	14627.00	N.A.	46.90
40-70	13637.68	N.A.	43.70
60-80	5866.35	N.A.	18.80
70-80	2189.56	N.A.	7.00
80-90	851.80	N.A.	2.70
90-110	594.82	N.A.	1.90
90-120	789.48	N.A.	2.50
90-130	951.94	N.A.	3.10
90-150	1197.53	N.A.	3.80
90-180	1305.79	N.A.	4.20
110-180	710.97	N.A.	2.30
0-180	31210.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	989.62
10-20	2832.02
20-30	4285.12
30-40	5119.01
40-50	5222.87
50-60	4738.03
60-70	3676.79
70-80	2189.57
80-90	851.80
90-100	344.36
100-110	250.46
110-120	194.66
120-130	162.46
130-140	136.30
140-150	109.29
150-160	69.66
160-170	31.28
170-180	7.32

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L300-840-FA-HA-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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	83	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	57	52	62	56	51	59	54	49	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	47	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	42	35	62	49	41	35	47	40	35	46	39	34	44	38	34	31
8	59	46	37	32	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L300-840-FA-HA-DIM-UNV_.IES

UGR TABLE - CORRECTED

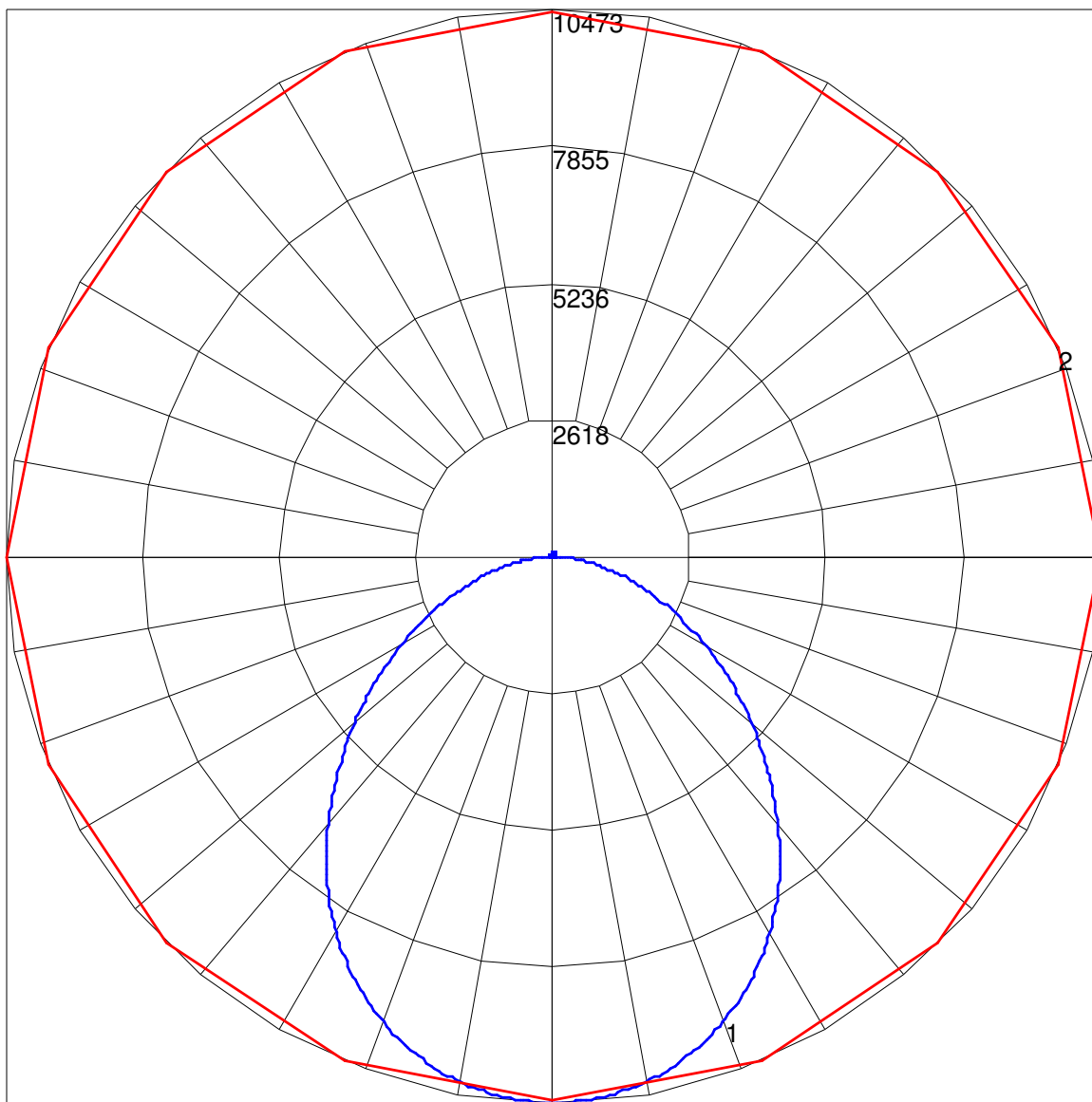
Reflectances

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	20.0	21.6	20.4	22.0	22.4	22.6	24.1	23.0	24.5	25.0
	3H	21.5	22.9	21.9	23.3	23.7	24.5	25.9	24.9	26.3	26.7
	4H	21.9	23.3	22.4	23.7	24.2	25.1	26.4	25.5	26.8	27.3
	6H	22.2	23.5	22.7	23.9	24.4	25.6	26.8	26.0	27.2	27.7
	8H	22.3	23.5	22.8	24.0	24.5	25.8	26.9	26.2	27.4	27.9
	12H	22.4	23.5	22.9	24.0	24.5	25.9	27.1	26.4	27.5	28.0
4H	2H	21.0	22.4	21.5	22.8	23.3	23.0	24.3	23.5	24.8	25.2
	3H	22.7	23.8	23.2	24.3	24.8	25.1	26.2	25.6	26.7	27.2
	4H	23.3	24.3	23.8	24.8	25.3	25.9	26.9	26.4	27.4	27.9
	6H	23.7	24.6	24.2	25.1	25.7	26.5	27.4	27.0	27.9	28.5
	8H	23.8	24.7	24.4	25.2	25.7	26.7	27.6	27.3	28.1	28.6
	12H	23.9	24.7	24.4	25.2	25.8	27.0	27.7	27.5	28.3	28.8
8H	4H	23.8	24.7	24.4	25.2	25.7	26.1	26.9	26.6	27.4	28.0
	6H	24.4	25.1	25.0	25.7	26.2	26.8	27.5	27.4	28.1	28.6
	8H	24.6	25.2	25.2	25.8	26.4	27.1	27.8	27.7	28.3	28.9
	12H	24.7	25.3	25.3	25.8	26.5	27.5	28.0	28.1	28.6	29.2
12H	4H	23.9	24.7	24.5	25.2	25.8	26.1	26.9	26.6	27.4	28.0
	6H	24.5	25.2	25.1	25.7	26.3	26.9	27.5	27.4	28.0	28.6
	8H	24.8	25.3	25.4	25.9	26.6	27.2	27.8	27.8	28.3	29.0

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 10472.931 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)