



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13326828.05
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 4/22/2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] GH-4-L600-840-FA-DIM-UNV
 [LUMINAIRE] Formed white steel housing, frosted lens enclosure
 [LAMP] 1008 White LEDs
 [BALLAST] Six Everline D21CC80UNVPW-C Drivers

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	61173
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	429.8
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)	1.96 ft
Luminous Height	0.27 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23014	25002	27499
55	19618	23020	26280
65	15896	20493	22989
75	11823	16206	15851
85	6614	9115	10204

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	20665.12	20665.12	20665.12	20665.12	20665.12
0.5	20665.12	20665.12	20674.33	20655.91	220665.12
1.0	20665.12	20665.12	20665.12	20646.70	20665.12
1.5	20665.12	20665.12	20665.12	20646.70	20665.12
2.0	20646.70	20655.91	220655.91	220637.49	20665.12
2.5	20646.70	20637.49	20655.91	220637.49	20665.12
3.0	20628.28	20628.28	20637.49	20628.28	20646.70
3.5	20609.86	20609.86	20628.28	20609.86	20637.49
4.0	20591.44	20591.44	20609.86	20619.07	20646.70
4.5	20573.03	20582.24	20591.44	20591.44	20628.28
5.0	20545.40	20563.82	220582.24	20582.24	20600.65
5.5	20536.19	20536.19	20554.61	20563.82	220591.44
6.0	20490.14	20517.77	20536.19	20545.40	20591.44
6.5	20480.94	20490.14	20508.56	20526.98	20563.82
7.0	20444.10	20453.31	20490.14	20499.35	20536.19
7.5	20416.47	20425.68	20462.52	20480.94	20508.56
8.0	20388.85	20398.05	20444.10	20462.52	20490.14
8.5	20342.80	20361.22	20398.05	20434.89	20471.73
9.0	20305.96	20324.38	20379.64	20407.26	20434.89
9.5	20259.92	20278.34	20342.80	20370.43	20407.26
10.0	20223.08	20241.50	20305.96	20352.01	20379.64
10.5	20158.62	20204.66	20269.13	20324.38	20361.22
11.0	20121.78	20149.41	20232.29	20287.55	20333.59
11.5	20066.53	20103.36	20195.46	20269.13	20296.75
12.0	20011.27	20048.11	20149.41	20232.29	20269.13
12.5	19956.02	20002.06	20103.36	20195.46	20241.50
13.0	19891.56	19946.81	20057.32	20158.62	20204.66
13.5	19836.30	19891.56	20020.48	20112.57	20167.83
14.0	19771.84	19836.30	19965.23	20066.53	20121.78
14.5	19707.38	19762.63	19919.18	20029.69	20084.95
15.0	19633.70	19707.38	19863.93	19983.65	20038.90
15.5	19578.45	19633.70	19799.47	19946.81	20002.06
16.0	19495.57	19578.45	19753.42	19891.56	19946.81
16.5	19431.10	19504.78	19688.96	19845.51	19919.18
17.0	19348.22	19431.10	19633.70	19790.26	19863.93
17.5	19274.55	19357.43	19569.24	19744.21	19817.88
18.0	19182.46	19283.76	19513.98	19679.75	19762.63
18.5	19099.58	19210.09	19449.52	19633.70	19716.58
19.0	19016.70	19127.20	19375.85	19578.45	19670.54
19.5	18924.61	19035.11	19311.39	19523.19	19596.87
20.0	18832.51	18961.44	19237.71	19458.73	19560.03
20.5	18731.22	18869.35	19173.25	19403.48	19486.36
21.0	18639.12	18777.26	19090.37	19339.01	19440.31
21.5	18547.03	18685.17	19016.70	19283.76	19385.06
22.0	18436.53	18593.08	18943.02	19210.09	19339.01
22.5	18344.43	18491.78	18860.14	19145.62	19265.34
23.0	18233.93	18408.90	18777.26	19081.16	19200.88
23.5	18123.42	18307.60	18694.38	19016.70	19136.41
24.0	18022.12	18197.09	18602.29	18943.02	19071.95
24.5	17911.61	18105.00	18519.41	18869.35	19007.49
25.0	17810.31	17994.49	18445.73	18795.68	18943.02
25.5	17690.59	17893.19	18344.43	18731.22	18878.56
26.0	17580.08	17782.68	18252.34	18648.33	18804.89
26.5	17460.37	17672.17	18160.25	18574.66	18731.22

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	17322.23417561.67018068.16818500.99318648.338
27.5	17211.72517451.16117966.86818418.11218583.875
28.0	17082.79917331.44317874.77818344.43918500.993
28.5	16953.87217220.93517764.26918252.34918427.321
29.0	16806.52717092.00817672.17818169.46718344.439
29.5	16668.39116972.29017561.67018077.37718252.349
30.0	16530.25516843.36317469.57917994.49518169.467
30.5	16392.12016714.43617359.07017902.40518086.586
31.0	16253.98416585.51017257.77117819.52318003.704
31.5	16106.63916456.58317147.26217727.43317930.032
32.0	15968.50316327.65617036.75317635.34217837.941
32.5	15830.36716189.52016935.45417543.25117745.851
33.0	15683.02216060.59316824.94517441.95217662.969
33.5	15544.88615922.45816714.43617349.86117552.461
34.0	15397.54115793.53116603.92817248.56217460.370
34.5	15250.19715655.39516484.21017156.47117368.279
35.0	15102.85215517.25916373.70117055.17217276.189
35.5	14955.50715379.12316253.98416963.08117165.680
36.0	14808.16215240.98816134.26616861.78117073.590
36.5	14651.60815102.85216014.54816751.27316972.290
37.0	14495.05414955.50715894.83016640.76416870.990
37.5	14329.29114817.37115775.11316539.46416760.482
38.0	14172.73714670.02615646.18616428.95616659.182
38.5	14006.97414522.68115526.46816318.44716557.883
39.0	13841.21114375.33615397.54116207.93816447.374
39.5	13675.44814227.99115268.61516097.43016336.865
40.0	13509.68514080.64615148.89715986.92116226.356
40.5	13343.92213924.09315019.97015867.20316106.639
41.0	13178.15913767.53914881.83415756.69515996.130
41.5	13012.39613620.19414752.90815636.97715876.412
42.0	12846.63313463.64014623.98115517.25915765.904
42.5	12680.87013307.08614485.84515397.54115646.186
43.0	12515.10713150.53214347.70915277.82415526.468
43.5	12358.55312993.97814209.57315158.10615397.541
44.0	12192.79012837.42414071.43715029.17915277.824
44.5	12017.81812680.87013933.30214900.25215158.106
45.0	11852.05512524.31613795.16614780.53515029.179
45.5	11677.08312367.76213657.03014651.60814909.462
46.0	11511.32012211.20813509.68514522.68114780.535
46.5	11336.34812045.44513371.54914393.75414642.399
47.0	11161.37611888.89113224.20414255.61914513.472
47.5	10986.40411732.33713086.06814126.69214375.336
48.0	10811.43211566.57412947.93313988.55614246.409
48.5	10636.46011410.02012800.58813859.62914108.274
49.0	10470.69711244.25712662.45213721.49313970.138
49.5	10295.72411087.70312515.10713583.35713832.002
50.0	10120.75210921.94012367.76213445.22213693.866
50.5	9954.989 10756.17712220.41713307.08613564.939
51.0	9780.017 10599.62312073.07213159.74113426.804
51.5	9614.254 10433.86011925.72713021.60513288.668
52.0	9439.282 10277.30611778.38212874.26013150.532
52.5	9273.519 10111.54311631.03812726.91513003.187
53.0	9102.231 9954.989 11483.69312579.57012865.051
53.5	8931.863 9798.435 11327.13912432.22512717.706
54.0	8764.259 9641.882 11179.79412284.88112561.152
54.5	8599.416 9485.328 11023.24012128.32712413.807

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	8432.732	9319.565	10875.895	11971.773	12257.253
55.5	8272.495	9166.694	10719.341	11815.219	12100.699
56.0	8110.416	9009.219	10571.996	11658.665	11934.936
56.5	7947.415	8851.745	10415.442	11502.111	11769.173
57.0	7781.652	8696.111	10258.888	11345.557	11603.410
57.5	7614.047	8539.558	10111.543	11179.794	11428.438
58.0	7449.205	8383.924	9954.989	11023.240	11262.675
58.5	7286.205	8227.371	9798.435	10857.477	11087.703
59.0	7122.284	8071.737	9641.882	10682.505	10912.731
59.5	6963.888	7916.104	9485.328	10516.742	10737.759
60.0	6804.571	7761.392	9328.774	10341.770	10553.578
60.5	6647.097	7608.522	9176.824	10176.007	10369.397
61.0	6487.780	7455.652	9022.112	10001.035	10185.216
61.5	6326.621	7303.702	8868.321	9816.854	9991.826
62.0	6170.067	7153.595	8713.609	9641.882	9789.226
62.5	6015.355	7005.329	8556.134	9457.700	9586.627
63.0	5865.248	6857.063	8399.580	9264.310	9393.237
63.5	5718.824	6709.718	8242.105	9078.287	9187.875
64.0	5570.558	6564.215	8082.788	8887.660	8980.671
64.5	5420.450	6420.554	7924.393	8695.191	8769.784
65.0	5272.185	6276.893	7762.313	8499.038	8554.292
65.5	5127.602	6134.152	7599.313	8301.043	8338.800
66.0	4985.783	5993.254	7435.392	8100.286	8121.466
66.5	4843.963	5851.434	7271.471	7895.845	7904.133
67.0	4701.223	5710.536	7105.708	7691.403	7683.115
67.5	4561.245	5571.479	6940.865	7486.962	7461.177
68.0	4423.110	5431.501	6775.102	7278.838	7233.713
68.5	4284.053	5291.524	6610.260	7067.950	7004.408
69.0	4144.996	5153.388	6444.497	6856.142	6772.340
69.5	4008.702	5015.252	6277.813	6644.334	6543.034
70.0	3874.250	4877.116	6111.129	6432.526	6312.808
70.5	3740.719	4740.822	5945.366	6219.796	6085.344
71.0	3609.950	4605.449	5779.603	6007.988	5860.643
71.5	3481.944	4470.076	5611.999	5797.101	5641.468
72.0	3354.859	4335.624	5443.473	5585.292	5427.818
72.5	3230.537	4203.934	5275.868	5377.168	5215.088
73.0	3109.898	4072.245	5106.421	5170.885	5007.885
73.5	2988.339	3942.397	4936.975	4967.365	4802.523
74.0	2869.542	3814.391	4770.291	4767.528	4603.607
74.5	2755.350	3688.227	4601.765	4570.454	4413.900
75.0	2641.157	3562.984	4434.160	4377.064	4224.194
75.5	2530.649	3438.661	4266.556	4188.279	4044.617
76.0	2421.061	3316.181	4098.951	4006.860	3867.803
76.5	2312.394	3194.621	3934.109	3828.205	3692.831
77.0	2207.411	3072.141	3769.267	3655.074	3525.227
77.5	2100.586	2951.502	3606.266	3486.549	3363.147
78.0	1997.444	2831.785	3443.266	3322.627	3204.751
78.5	1896.145	2711.146	3283.028	3164.232	3055.565
79.0	1796.687	2591.428	3123.712	3010.440	2910.983
79.5	1696.308	2470.790	2967.158	2863.095	2773.768
80.0	1597.771	2351.072	2811.525	2721.276	2642.078
80.5	1501.997	2230.433	2659.575	2582.219	2515.914
81.0	1408.065	2111.637	2512.230	2449.609	2394.355
81.5	1315.053	1994.682	2365.806	2319.761	2275.558
82.0	1222.963	1875.885	2225.829	2194.518	2161.365
82.5	1133.635	1758.930	2088.614	2073.879	2052.699

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	1047.991	1641.975	1954.162	1958.766	1946.794
83.5	962.346	1525.020	1825.235	1847.337	1845.495
84.0	879.465	1410.827	1699.992	1740.512	1747.879
84.5	795.662	1297.556	1578.432	1636.449	1653.026
85.0	716.465	1185.205	1459.635	1536.991	1559.093
85.5	636.346	1072.855	1345.443	1439.375	1467.924
86.0	558.990	965.109	1234.934	1346.364	1378.596
86.5	482.555	857.363	1128.109	1256.115	1295.714
87.0	406.119	753.301	1025.889	1171.392	1214.674
87.5	328.763	662.131	936.561	1093.115	1141.923
88.0	252.328	579.250	856.442	1024.968	1077.460
88.5	176.814	503.735	787.374	966.951	1022.205
89.0	119.718	442.956	726.595	913.538	970.634
89.5	80.119	386.780	672.261	861.968	920.906
90.0	41.441	334.289	620.690	815.001	875.781
90.5	36.836	232.068	485.317	669.498	731.199
91.0	34.994	223.780	489.922	679.628	733.962
91.5	34.994	218.255	489.001	683.312	733.962
92.0	35.915	214.571	489.001	678.707	728.436
92.5	38.678	214.571	486.238	670.419	716.465
93.0	41.441	209.046	477.950	658.447	707.255
93.5	44.203	203.520	468.741	647.397	695.284
94.0	46.966	197.995	459.532	636.346	684.233
94.5	49.729	194.311	450.323	626.216	673.182
95.0	51.571	189.707	442.035	615.165	662.131
95.5	53.413	185.102	433.747	605.035	652.001
96.0	53.413	182.339	425.458	594.905	641.871
96.5	54.333	179.577	418.091	584.775	631.741
97.0	54.333	177.735	410.724	574.645	621.611
97.5	55.254	174.972	403.357	565.436	611.481
98.0	55.254	172.209	395.989	556.227	602.272
98.5	55.254	170.368	389.543	547.018	592.142
99.0	55.254	169.447	383.097	538.730	582.012
99.5	56.175	168.526	376.650	530.442	572.803
100.0	56.175	167.605	371.125	523.074	563.594
100.5	56.175	166.684	366.520	515.707	556.227
101.0	56.175	166.684	361.916	507.419	548.860
101.5	56.175	167.605	356.390	500.052	541.492
102.0	56.175	167.605	351.786	492.684	534.125
102.5	55.254	168.526	347.181	486.238	525.837
103.0	55.254	169.447	342.577	479.792	518.470
103.5	55.254	170.368	337.972	474.266	512.024
104.0	56.175	170.368	334.289	468.741	506.498
104.5	56.175	172.209	330.605	462.295	500.973
105.0	56.175	173.130	326.921	456.769	495.447
105.5	56.175	174.051	324.159	450.323	489.001
106.0	56.175	175.893	320.475	443.876	482.555
106.5	57.096	176.814	317.712	438.351	476.108
107.0	57.096	178.656	315.871	432.826	469.662
107.5	57.096	180.497	313.108	427.300	464.136
108.0	57.096	182.339	311.266	422.696	458.611
108.5	57.096	184.181	309.424	419.012	453.086
109.0	58.017	186.023	308.503	414.408	447.560
109.5	58.017	187.865	306.662	410.724	443.876
110.0	58.017	189.707	305.741	407.961	439.272
110.5	58.017	192.469	304.820	404.278	435.588

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	58.938	195.232	303.899	401.515	431.905
111.5	58.938	197.995	302.057	397.831	428.221
112.0	58.938	201.678	301.136	395.068	425.458
112.5	58.938	204.441	299.294	392.306	421.775
113.0	58.938	208.125	298.373	389.543	419.012
113.5	58.938	211.808	297.453	386.780	415.328
114.0	58.938	216.413	296.532	384.939	412.566
114.5	58.938	221.017	295.611	382.176	410.724
115.0	59.859	225.622	295.611	380.334	408.882
115.5	59.859	230.226	294.690	378.492	406.119
116.0	59.859	234.831	294.690	376.650	404.278
116.5	59.859	239.435	294.690	374.809	402.436
117.0	60.780	244.040	294.690	372.967	400.594
117.5	60.780	248.645	294.690	371.125	398.752
118.0	60.780	253.249	294.690	369.283	396.910
118.5	60.780	257.854	294.690	367.441	394.148
119.0	61.701	263.379	295.611	365.600	392.306
119.5	61.701	267.984	295.611	364.679	390.464
120.0	61.701	271.667	296.532	362.837	388.622
120.5	62.622	276.272	296.532	361.916	386.780
121.0	62.622	279.955	297.453	360.995	384.939
121.5	62.622	283.639	297.453	360.074	384.018
122.0	63.542	286.402	298.373	358.232	383.097
122.5	63.542	290.085	299.294	358.232	382.176
123.0	63.542	292.848	300.215	357.311	380.334
123.5	64.463	294.690	302.057	356.390	379.413
124.0	64.463	296.532	302.978	355.470	378.492
124.5	64.463	297.453	304.820	354.549	376.650
125.0	65.384	298.373	306.662	354.549	375.729
125.5	65.384	299.294	308.503	353.628	374.809
126.0	66.305	299.294	311.266	353.628	373.888
126.5	66.305	298.373	313.108	352.707	372.967
127.0	67.226	297.453	315.871	351.786	372.967
127.5	67.226	296.532	318.633	351.786	372.967
128.0	68.147	294.690	322.317	351.786	372.046
128.5	68.147	293.769	326.001	351.786	372.046
129.0	69.068	291.927	329.684	351.786	371.125
129.5	69.068	289.164	333.368	351.786	371.125
130.0	69.989	287.323	337.051	352.707	371.125
130.5	70.910	285.481	341.656	352.707	370.204
131.0	70.910	282.718	345.340	352.707	370.204
131.5	70.910	280.876	349.944	353.628	370.204
132.0	71.831	278.113	354.549	354.549	370.204
132.5	71.831	276.272	358.232	356.390	370.204
133.0	72.752	273.509	362.837	357.311	370.204
133.5	72.752	271.667	367.441	359.153	371.125
134.0	72.752	268.904	371.125	360.995	372.046
134.5	72.752	267.063	375.729	362.837	372.967
135.0	72.752	264.300	380.334	364.679	373.888
135.5	73.672	261.537	384.018	367.441	374.809
136.0	72.752	259.695	388.622	370.204	376.650
136.5	72.752	256.933	392.306	372.967	377.571
137.0	72.752	254.170	395.989	376.650	380.334
137.5	72.752	252.328	399.673	379.413	382.176
138.0	72.752	249.565	403.357	383.097	384.939
138.5	72.752	246.803	406.119	386.780	387.701

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	72.752	244.040	408.882	390.464	390.464
139.5	72.752	241.277	409.803	394.148	394.148
140.0	72.752	239.435	411.645	397.831	396.910
140.5	72.752	236.673	411.645	401.515	400.594
141.0	73.672	233.910	412.566	405.198	404.278
141.5	73.672	231.147	411.645	409.803	407.961
142.0	73.672	228.385	410.724	413.487	411.645
142.5	74.593	225.622	408.882	418.091	415.328
143.0	74.593	222.859	406.119	421.775	419.012
143.5	74.593	220.096	403.357	425.458	422.696
144.0	74.593	218.255	399.673	429.142	427.300
144.5	75.514	215.492	395.989	432.826	431.905
145.0	75.514	213.650	391.385	436.509	436.509
145.5	75.514	211.808	386.780	440.193	440.193
146.0	75.514	209.966	382.176	442.956	443.876
146.5	75.514	208.125	376.650	445.718	448.481
147.0	75.514	206.283	372.046	446.639	453.086
147.5	75.514	204.441	366.520	446.639	456.769
148.0	75.514	203.520	361.916	445.718	460.453
148.5	75.514	201.678	356.390	444.797	463.216
149.0	75.514	199.837	351.786	442.956	464.136
149.5	75.514	197.995	347.181	441.114	465.057
150.0	75.514	195.232	342.577	437.430	464.136
150.5	75.514	193.390	337.972	433.747	462.295
151.0	75.514	191.548	332.447	428.221	460.453
151.5	75.514	189.707	327.842	422.696	457.690
152.0	75.514	186.944	323.238	416.249	454.006
152.5	75.514	184.181	317.712	409.803	449.402
153.0	76.435	181.418	313.108	403.357	443.876
153.5	76.435	178.656	307.582	395.989	437.430
154.0	76.435	175.893	302.978	388.622	430.063
154.5	76.435	173.130	297.453	381.255	421.775
155.0	77.356	170.368	292.848	374.809	413.487
155.5	77.356	166.684	287.323	367.441	405.198
156.0	77.356	163.921	282.718	360.074	395.989
156.5	78.277	161.158	277.193	353.628	387.701
157.0	78.277	158.396	271.667	346.261	378.492
157.5	79.198	155.633	267.063	338.893	370.204
158.0	79.198	151.949	261.537	331.526	360.995
158.5	79.198	150.108	256.933	324.159	351.786
159.0	80.119	147.345	252.328	316.792	343.498
159.5	80.119	144.582	247.724	309.424	334.289
160.0	80.119	141.819	243.119	301.136	326.001
160.5	80.119	139.978	239.435	293.769	317.712
161.0	81.040	137.215	235.752	286.402	308.503
161.5	81.040	134.452	232.068	279.034	299.294
162.0	81.040	132.610	227.464	270.746	291.006
162.5	81.040	129.848	222.859	263.379	281.797
163.0	81.961	127.085	218.255	256.012	273.509
163.5	81.040	125.243	212.729	248.645	264.300
164.0	81.961	123.401	207.204	242.198	256.012
164.5	81.961	120.639	201.678	236.673	247.724
165.0	81.961	118.797	196.153	230.226	240.356
165.5	81.961	116.955	189.707	224.701	233.910
166.0	81.961	115.113	184.181	218.255	227.464
166.5	81.961	112.350	177.735	211.808	220.096

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	81.961	110.509	172.209	205.362	213.650
167.5	81.961	108.667	166.684	197.995	206.283
168.0	82.882	107.746	161.158	190.627	198.916
168.5	82.882	105.904	155.633	183.260	191.548
169.0	82.882	104.062	150.108	175.893	184.181
169.5	82.882	102.221	144.582	168.526	175.893
170.0	82.882	101.300	139.978	161.158	167.605
170.5	82.882	99.458	135.373	153.791	159.317
171.0	82.882	98.537	130.769	146.424	151.949
171.5	82.882	96.695	126.164	139.978	144.582
172.0	83.802	95.774	122.480	133.531	136.294
172.5	83.802	94.853	117.876	128.006	128.927
173.0	83.802	93.932	114.192	122.480	122.480
173.5	84.723	93.011	110.509	116.955	116.955
174.0	84.723	92.091	106.825	112.350	111.430
174.5	84.723	91.170	104.062	107.746	105.904
175.0	84.723	91.170	101.300	103.141	101.300
175.5	84.723	90.249	98.537	99.458	97.616
176.0	84.723	89.328	96.695	95.774	93.932
176.5	84.723	89.328	94.853	93.011	90.249
177.0	84.723	89.328	93.011	90.249	86.565
177.5	85.644	88.407	92.091	88.407	83.802
178.0	85.644	88.407	91.170	86.565	81.961
178.5	85.644	88.407	90.249	85.644	80.119
179.0	85.644	87.486	89.328	84.723	79.198
179.5	85.644	87.486	89.328	84.723	78.277
180.0	85.644	85.644	85.644	85.644	85.644

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7556.33	N.A.	12.40
0-30	16034.29	N.A.	26.20
0-40	26217.98	N.A.	42.90
0-60	46230.46	N.A.	75.60
0-80	57713.49	N.A.	94.30
0-90	59227.27	N.A.	96.80
10-90	57272.07	N.A.	93.60
20-40	18661.65	N.A.	30.50
20-50	29176.78	N.A.	47.70
40-70	27286.49	N.A.	44.60
60-80	11483.03	N.A.	18.80
70-80	4209.02	N.A.	6.90
80-90	1513.78	N.A.	2.50
90-110	768.50	N.A.	1.30
90-120	1051.85	N.A.	1.70
90-130	1316.11	N.A.	2.20
90-150	1757.39	N.A.	2.90
90-180	1945.42	N.A.	3.20
110-180	1176.93	N.A.	1.90
0-180	61172.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1955.2
10-20	5601.13
20-30	8477.96
30-40	10183.7
40-50	10515.13
50-60	9497.35
60-70	7274.01
70-80	4209.02
80-90	1513.78
90-100	440.10
100-110	328.39
110-120	283.36
120-130	264.26
130-140	239.01
140-150	202.27
150-160	126.11
160-170	51.54
170-180	10.38

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-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	104	104	104	99	99	99	97
1	108	103	98	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	62	58	56
4	82	69	61	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GH-4-L600-840-FA-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

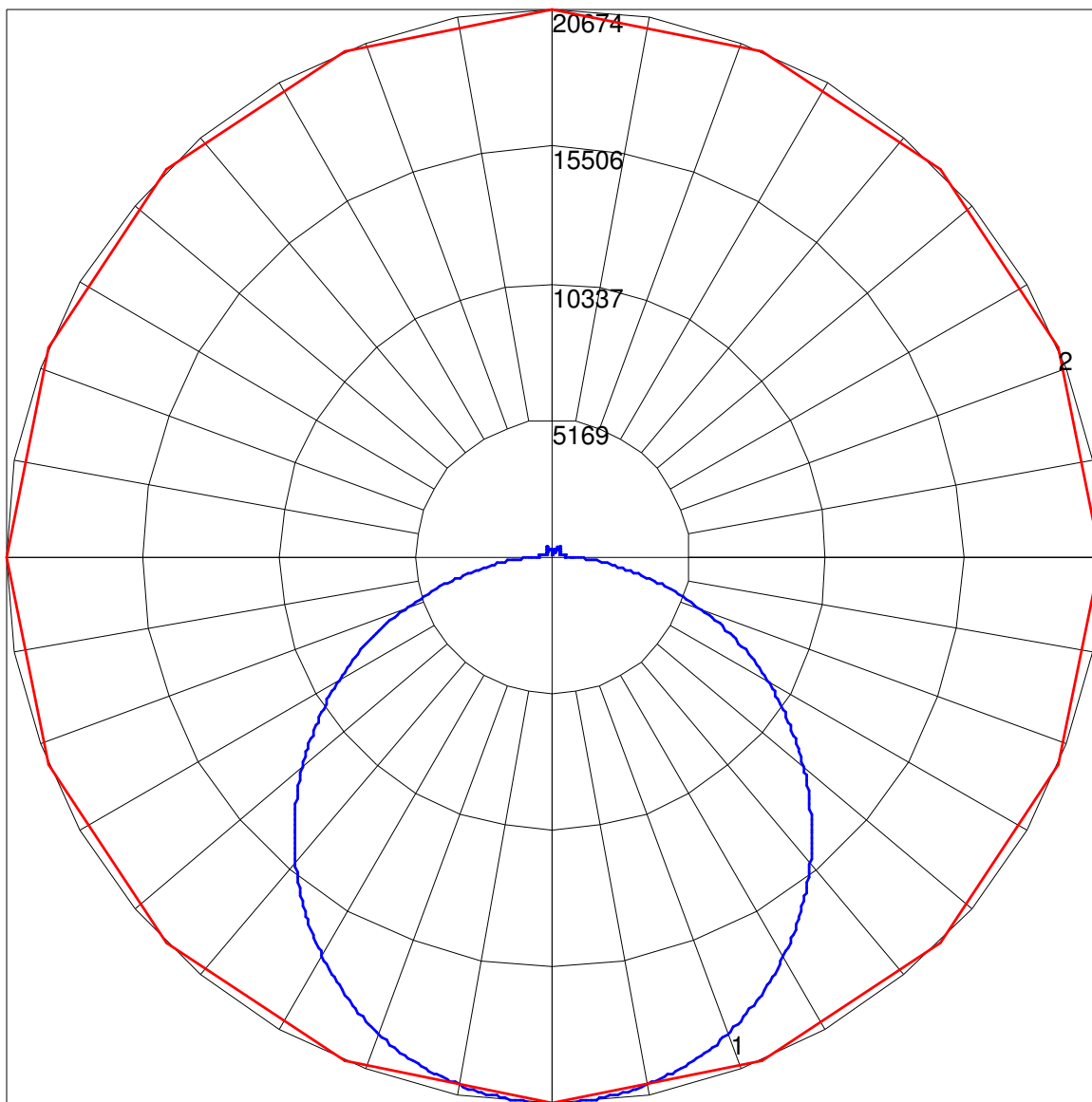
X=2H	Y=2H	21.5	23.1	21.9	23.5	23.9	23.8	25.3	24.2	25.7	26.1
	3H	23.0	24.4	23.4	24.8	25.2	25.5	26.9	25.9	27.3	27.8
	4H	23.4	24.8	23.9	25.2	25.6	26.1	27.4	26.5	27.8	28.3
	6H	23.8	25.0	24.2	25.4	25.9	26.5	27.7	26.9	28.1	28.6
	8H	23.8	25.0	24.3	25.5	26.0	26.6	27.8	27.1	28.2	28.7
	12H	23.9	25.0	24.3	25.5	26.0	26.7	27.9	27.2	28.3	28.8

UGR Viewed Endwise

4H	2H	22.5	23.8	22.9	24.2	24.7	24.2	25.6	24.7	26.0	26.4
	3H	24.2	25.3	24.6	25.7	26.2	26.2	27.3	26.6	27.8	28.2
	4H	24.8	25.8	25.2	26.3	26.8	26.9	27.9	27.3	28.4	28.9
	6H	25.2	26.1	25.7	26.6	27.1	27.4	28.3	27.9	28.8	29.3
	8H	25.3	26.1	25.8	26.6	27.2	27.6	28.4	28.1	28.9	29.4
	12H	25.4	26.1	25.9	26.7	27.2	27.7	28.5	28.3	29.0	29.6
8H	4H	25.2	26.1	25.7	26.6	27.1	27.1	27.9	27.6	28.4	29.0
	6H	25.8	26.5	26.3	27.0	27.6	27.7	28.4	28.2	29.0	29.5
	8H	26.0	26.6	26.5	27.2	27.7	27.9	28.6	28.5	29.1	29.7
	12H	26.1	26.7	26.7	27.2	27.9	28.2	28.8	28.8	29.3	29.9
12H	4H	25.3	26.0	25.8	26.6	27.1	27.1	27.9	27.6	28.4	28.9
	6H	25.9	26.5	26.5	27.1	27.7	27.7	28.4	28.3	28.9	29.5
	8H	26.1	26.7	26.7	27.3	27.9	28.0	28.6	28.6	29.1	29.8

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 20674.33 Located At Horizontal Angle = 45, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)