



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-840-MD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/5/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L480-840-MD-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	46397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	338
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.36 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	43766	42526	37186
55	33049	30994	26184
65	25678	23220	21607
75	24730	20198	21752
85	22108	14995	16661

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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	20975.714	20975.714	20975.714	20975.714	20975.714
0.5	20792.431	20955.349	21016.444	20975.714	20996.079
1.0	20792.431	20955.349	21016.444	20955.349	20996.079
1.5	20792.431	20955.349	21016.444	20955.349	20996.079
2.0	20772.066	20955.349	20996.079	20934.984	20975.714
2.5	20772.066	20934.984	20996.079	20934.984	20955.349
3.0	20751.702	20914.620	20975.714	20914.620	20934.984
3.5	20751.702	20914.620	20955.349	20894.255	20934.984
4.0	20731.337	20894.255	20934.984	20873.890	20914.620
4.5	20710.972	20873.890	20914.620	20853.525	20894.255
5.0	20710.972	20853.525	20914.620	20853.525	20873.890
5.5	20690.607	20833.161	20894.255	20833.161	20853.525
6.0	20670.242	20812.796	20873.890	20812.796	20833.161
6.5	20649.878	20812.796	20853.525	20792.431	20812.796
7.0	20629.513	20772.066	20833.161	20772.066	20792.431
7.5	20588.783	20751.702	20812.796	20751.702	20772.066
8.0	20568.419	20731.337	20792.431	20731.337	20751.702
8.5	20548.054	20710.972	20772.066	20710.972	20751.702
9.0	20507.324	20670.242	20731.337	20690.607	20690.607
9.5	20486.960	20649.878	20710.972	20649.878	20670.242
10.0	20446.230	20629.513	20690.607	20629.513	20629.513
10.5	20405.500	20588.783	20649.878	20588.783	20609.148
11.0	20385.136	20548.054	20609.148	20548.054	20568.419
11.5	20346.443	20507.324	20568.419	20507.324	20527.689
12.0	20309.786	20466.595	20527.689	20466.595	20486.960
12.5	20271.093	20425.865	20486.960	20425.865	20446.230
13.0	20228.327	20385.136	20446.230	20385.136	20405.500
13.5	20179.451	20330.151	20405.500	20334.224	20364.771
14.0	20130.576	20281.275	20342.370	20287.385	20317.932
14.5	20077.628	20230.363	20289.421	20238.509	20273.129
15.0	20022.643	20181.488	20236.473	20185.561	20226.290
15.5	19963.585	20126.503	20179.451	20132.613	20179.451
16.0	19904.527	20069.482	20118.357	20079.664	20126.503
16.5	19843.433	20010.424	20059.299	20024.679	20071.518
17.0	19780.302	19947.293	19996.169	19965.621	20012.460
17.5	19713.098	19880.089	19935.074	19906.564	19951.366
18.0	19643.858	19812.886	19873.980	19843.433	19888.235
18.5	19578.691	19743.645	19808.813	19778.265	19816.959
19.0	19509.451	19674.405	19743.645	19711.062	19749.755
19.5	19442.247	19601.092	19676.442	19641.822	19678.478
20.0	19370.970	19525.742	19599.056	19574.618	19611.274
20.5	19293.584	19444.283	19515.560	19507.414	19535.925
21.0	19214.161	19356.715	19423.918	19436.137	19462.612
21.5	19132.702	19269.146	19346.532	19358.751	19385.225
22.0	19047.170	19181.578	19265.073	19281.365	19307.839
22.5	18955.529	19087.900	19173.432	19197.870	19224.344
23.0	18861.851	18994.222	19077.717	19110.301	19134.739
23.5	18764.100	18898.507	18982.003	19018.660	19045.134
24.0	18660.240	18796.684	18880.179	18922.945	18953.492
24.5	18558.416	18692.823	18780.392	18823.158	18859.814
25.0	18452.519	18588.963	18680.604	18719.297	18762.063
25.5	18340.513	18476.957	18574.708	18611.364	18662.276
26.0	18230.543	18369.023	18468.811	18499.358	18554.343
26.5	18118.537	18252.944	18356.804	18387.352	18444.373

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CANDELA TABULATION - (Cont.)

27.0	18000.42118138.90118242.76218269.23618330.330
27.5	17880.26918020.78618124.64618149.08418212.215
28.0	17754.00717898.59718002.45718022.82218087.990
28.5	17627.74617772.33617874.15917894.52417957.655
29.0	17485.19217642.00117743.82517760.11717821.211
29.5	17348.74817507.59417609.41717621.63617678.658
30.0	17208.23117369.11317468.90017477.04617529.995
30.5	17061.60517228.59617322.27417324.31117371.150
31.0	16910.90617084.00617173.61117157.31917204.158
31.5	16758.17016937.38017016.80316982.18217026.985
32.0	16605.43416790.75416862.03016821.30116868.140
32.5	16444.55216631.90816699.11216648.20016693.003
33.0	16287.74416473.06316532.12116458.80816446.589
33.5	16122.78916306.07216356.98416267.37916220.540
34.0	15955.79816132.97116179.81016063.73115990.418
34.5	15790.84315957.83415996.52815847.86515752.150
35.0	15613.67015780.66115807.13515625.88915501.664
35.5	15436.49615599.41515609.59715393.73015236.922
36.0	15251.17715410.02215405.94915151.39014966.070
36.5	15061.78515214.52015192.11914896.83014685.036
37.0	14868.31915014.94614974.21614638.19714399.929
37.5	14670.78114811.29814750.20414367.34614108.713
38.0	14465.09714605.61414524.15514096.49413809.351
38.5	14255.34014393.82014289.96013817.49713509.989
39.0	14041.51014179.99014051.69213532.39013202.481
39.5	13821.57013964.12313807.31513245.24712897.009
40.0	13599.59413744.18413558.86412956.06712589.501
40.5	13371.50913522.20813304.30512662.81512277.920
41.0	13141.38713296.15913049.74512371.59811948.011
41.5	12913.30113066.03712791.11312076.30911609.956
42.0	12681.14312833.87912526.37111787.12911328.922
42.5	12448.98412599.68412265.70211518.31411047.888
43.0	12214.79012363.45212005.03211227.09810752.599
43.5	11980.59512123.14811744.36310917.55410453.237
44.0	11746.40011882.84411481.65810638.55610157.948
44.5	11514.24111638.46711218.95210357.5229872.841
45.0	11284.12011392.05310964.39310082.5989587.734
45.5	11049.92511149.71210705.7609811.747 9308.737
46.0	10815.73010907.37110451.2009547.005 9039.922
46.5	10587.64410662.99410202.7509290.408 8779.253
47.0	10357.52210422.6909952.264 9037.885 8524.693
47.5	10127.40110184.4229707.886 8789.435 8280.316
48.0	9901.352 9946.154 9465.546 8549.131 8044.085
48.5	9675.303 9713.996 9225.241 8314.936 7813.963
49.0	9449.254 9483.874 8991.046 8082.778 7594.023
49.5	9221.168 9253.752 8760.924 7860.802 7382.229
50.0	8997.156 9027.703 8532.839 7642.899 7178.582
50.5	8777.216 8803.690 8306.790 7429.068 6979.007
51.0	8559.313 8583.751 8088.887 7225.421 6787.578
51.5	8339.374 8367.884 7870.984 7013.627 6606.332
52.0	8127.580 8154.054 7661.227 6822.198 6427.122
52.5	7913.750 7944.297 7461.652 6640.952 6256.058
53.0	7703.993 7736.576 7270.223 6461.742 6091.103
53.5	7498.309 7530.892 7060.466 6286.605 5930.221
54.0	7298.734 7329.281 6856.818 6115.541 5775.449
54.5	7103.232 7131.743 6665.390 5950.586 5624.750

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CANDELA TABULATION - (Cont.)

55.0	6911.803	6936.241	6482.107	5789.704	5476.087
55.5	6720.374	6742.776	6300.860	5632.896	5333.533
56.0	6539.128	6555.420	6123.687	5480.160	5195.053
56.5	6359.918	6370.100	5950.586	5333.533	5060.646
57.0	6182.744	6188.854	5781.558	5188.944	4928.275
57.5	6013.717	6011.680	5616.604	5048.427	4799.976
58.0	5850.799	5840.616	5455.722	4911.983	4675.751
58.5	5689.917	5671.589	5296.877	4779.612	4555.599
59.0	5533.108	5508.671	5142.105	4649.277	4439.520
59.5	5378.336	5347.789	4991.405	4523.016	4325.477
60.0	5231.710	5190.980	4844.779	4402.863	4217.544
60.5	5087.120	5042.317	4702.226	4282.711	4113.684
61.0	4946.603	4895.691	4561.709	4168.669	4009.823
61.5	4808.122	4753.138	4425.265	4056.662	3912.072
62.0	4675.751	4616.694	4292.894	3950.766	3818.395
62.5	4547.453	4484.323	4164.596	3846.905	3728.790
63.0	4421.192	4360.097	4038.334	3745.081	3643.258
63.5	4292.894	4241.982	3918.182	3647.330	3559.762
64.0	4146.267	4107.574	3802.103	3553.653	3480.339
64.5	4052.589	3993.532	3688.060	3464.048	3402.953
65.0	3956.875	3883.562	3578.090	3376.479	3329.640
65.5	3848.942	3775.629	3472.193	3292.983	3258.363
66.0	3749.154	3657.513	3370.370	3209.488	3189.123
66.5	3649.367	3553.653	3270.582	3130.065	3121.919
67.0	3555.689	3453.865	3172.831	3052.679	3056.752
67.5	3464.048	3356.114	3081.190	2977.330	2991.585
68.0	3376.479	3262.436	2991.585	2904.016	2928.454
68.5	3290.947	3170.795	2904.016	2832.740	2865.323
69.0	3209.488	3081.190	2818.484	2761.463	2804.229
69.5	3132.102	2993.621	2737.025	2692.223	2743.135
70.0	3054.716	2908.089	2655.566	2625.019	2684.077
70.5	2979.366	2824.594	2578.180	2555.779	2622.982
71.0	2906.053	2743.135	2498.757	2488.575	2563.925
71.5	2832.740	2661.676	2423.408	2421.371	2502.830
72.0	2763.499	2580.216	2348.058	2354.168	2441.736
72.5	2692.223	2500.794	2266.599	2284.927	2378.605
73.0	2622.982	2421.371	2193.286	2217.724	2315.474
73.5	2555.779	2341.949	2124.046	2146.447	2252.344
74.0	2488.575	2262.526	2050.732	2077.207	2187.176
74.5	2407.116	2183.103	1975.383	2005.930	2119.973
75.0	2333.803	2103.681	1906.143	1934.653	2052.769
75.5	2258.453	2026.295	1836.902	1861.340	1981.492
76.0	2181.067	1946.872	1753.407	1790.063	1912.252
76.5	2103.681	1867.449	1678.057	1716.750	1838.939
77.0	2024.258	1790.063	1602.707	1643.437	1765.626
77.5	1944.836	1710.641	1527.358	1570.124	1690.276
78.0	1861.340	1633.255	1454.045	1494.774	1612.890
78.5	1775.808	1553.832	1378.695	1421.461	1535.504
79.0	1692.312	1476.446	1305.382	1348.148	1456.081
79.5	1608.817	1397.023	1227.996	1272.798	1376.659
80.0	1523.285	1319.637	1154.683	1199.485	1297.236
80.5	1437.753	1242.251	1081.369	1126.172	1215.777
81.0	1352.221	1164.865	1008.056	1052.859	1136.354
81.5	1268.725	1089.515	934.743	981.582	1054.895
82.0	1185.230	1016.202	863.466	910.305	975.473
82.5	1101.734	940.852	792.190	841.065	898.086

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CANDELA TABULATION - (Cont.)

83.0	1020.275	861.430	724.986	771.825	820.700
83.5	938.816	796.263	659.819	704.621	747.387
84.0	859.393	733.132	594.651	637.417	672.037
84.5	779.971	661.855	533.557	574.287	600.761
85.0	702.585	598.724	476.536	511.156	529.484
85.5	627.235	537.630	419.514	452.098	464.317
86.0	549.849	474.499	366.566	395.077	397.113
86.5	476.536	413.405	317.690	333.982	338.055
87.0	403.222	352.311	268.815	276.961	278.997
87.5	331.946	291.216	221.976	224.012	224.012
88.0	260.669	236.231	179.210	175.137	175.137
88.5	191.429	187.356	140.517	134.407	128.298
89.0	134.407	144.590	107.933	99.787	93.678
89.5	91.641	107.933	77.386	71.277	71.277
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L480-840-MD-DIM-UNV_.IES

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 : GS-4-L480-840-MD-DIM-UNV_.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 : GS-4-L480-840-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7678.07	N.A.	16.50
0-30	16254.7	N.A.	35.00
0-40	25990.23	N.A.	56.00
0-60	39991.65	N.A.	86.20
0-80	45761.8	N.A.	98.60
0-90	46396.97	N.A.	100.00
10-90	44413.87	N.A.	95.70
20-40	18312.17	N.A.	39.50
20-50	26586.75	N.A.	57.30
40-70	17633.42	N.A.	38.00
60-80	5770.15	N.A.	12.40
70-80	2138.15	N.A.	4.60
80-90	635.17	N.A.	1.40
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	46396.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1983.1
10-20	5694.97
20-30	8576.63
30-40	9735.53
40-50	8274.58
50-60	5726.83
60-70	3632.00
70-80	2138.15
80-90	635.17
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
PHOTOMETRIC FILENAME : GS-4-L480-840-MD-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L480-840-MD-DIM-UNV_.IES

UGR TABLE - CORRECTED

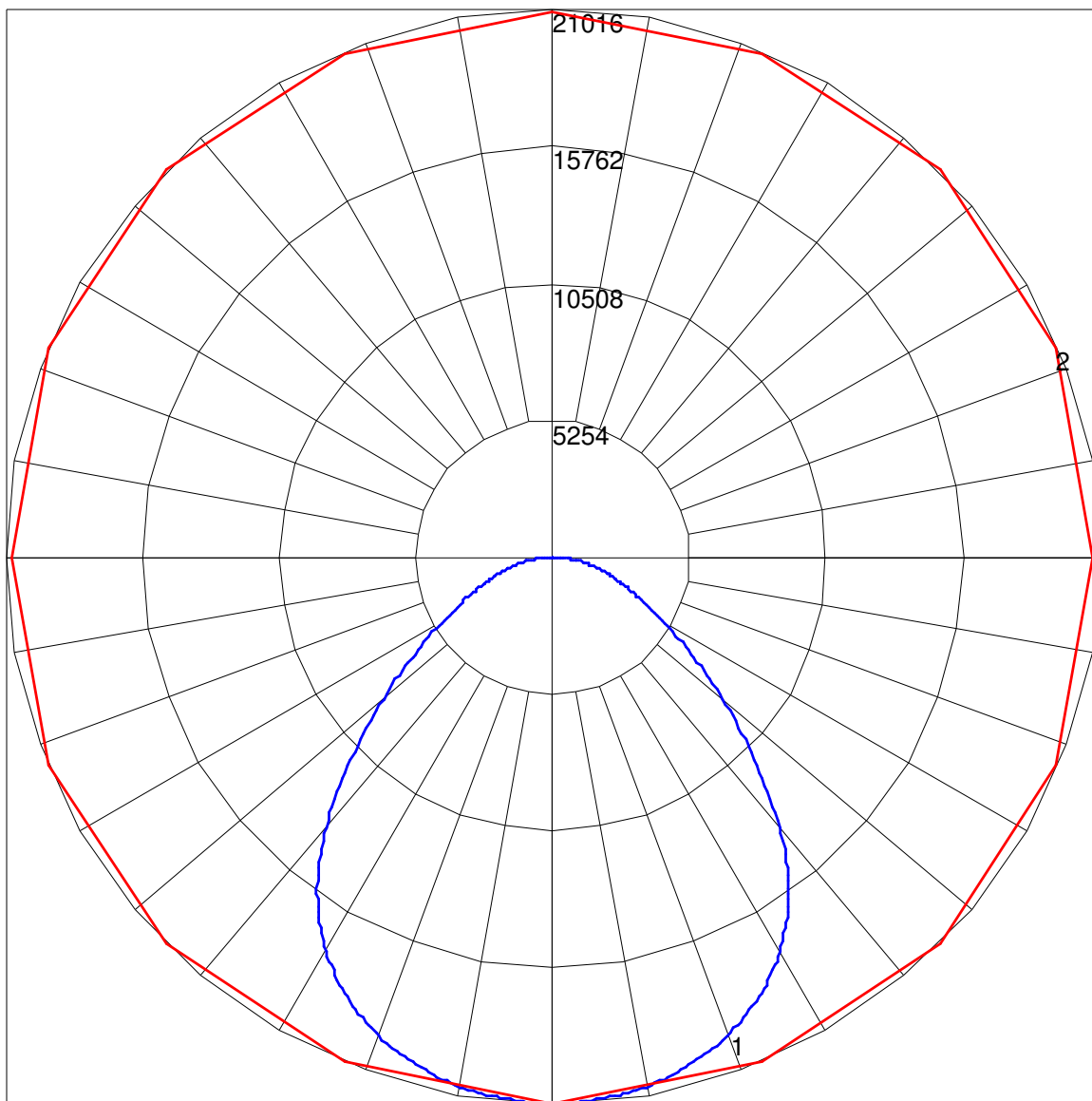
Reflectances

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	23.3	24.8	23.7	25.1	25.5	22.1	23.6	22.4	23.9	24.2
	3H	24.8	26.1	25.1	26.4	26.8	23.6	25.0	24.0	25.3	25.7
	4H	25.4	26.7	25.8	27.0	27.4	24.3	25.6	24.7	26.0	26.3
	6H	26.0	27.1	26.4	27.5	27.9	24.9	26.1	25.3	26.4	26.8
	8H	26.1	27.3	26.6	27.6	28.0	25.1	26.2	25.5	26.6	27.0
	12H	26.3	27.3	26.7	27.7	28.2	25.2	26.3	25.7	26.7	27.1
4H	2H	23.7	24.9	24.1	25.3	25.7	22.6	23.9	23.0	24.2	24.6
	3H	25.4	26.4	25.8	26.8	27.2	24.4	25.5	24.8	25.9	26.3
	4H	26.2	27.1	26.6	27.5	27.9	25.3	26.2	25.7	26.6	27.1
	6H	26.8	27.7	27.3	28.1	28.6	26.0	26.8	26.4	27.2	27.7
	8H	27.1	27.9	27.6	28.3	28.8	26.2	27.0	26.7	27.4	27.9
	12H	27.3	28.0	27.8	28.5	28.9	26.4	27.0	26.8	27.5	28.0
8H	4H	26.3	27.1	26.8	27.6	28.0	25.6	26.3	26.0	26.8	27.2
	6H	27.2	27.8	27.7	28.3	28.8	26.4	27.0	26.9	27.5	28.0
	8H	27.5	28.1	28.0	28.6	29.1	26.7	27.3	27.2	27.8	28.3
	12H	27.8	28.3	28.3	28.8	29.3	26.9	27.4	27.4	27.9	28.5
12H	4H	26.4	27.1	26.9	27.5	28.0	25.6	26.3	26.1	26.8	27.2
	6H	27.2	27.8	27.7	28.2	28.8	26.4	27.0	27.0	27.5	28.0
	8H	27.6	28.1	28.1	28.6	29.1	26.8	27.3	27.3	27.8	28.4

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 21016.444 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.)