



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L480-840-CA-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	48839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	338
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
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	48345	49840	50743
55	46273	48135	34623
65	41972	29357	9516
75	34360	9445	9567
85	15065	12948	12058

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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	18513.773	18513.773	18513.773	18513.773	18513.773
0.5	18285.064	18525.402	18566.105	18537.031	18573.857
1.0	18290.879	18527.340	18568.043	18537.031	18571.919
1.5	18298.632	18525.402	18569.981	18531.217	18566.105
2.0	18296.693	18529.279	18566.105	18533.155	18568.043
2.5	18292.817	18525.402	18568.043	18529.279	18562.228
3.0	18290.879	18517.649	18564.166	18531.217	18566.105
3.5	18285.064	18506.020	18562.228	18531.217	18566.105
4.0	18271.497	18500.205	18556.414	18538.970	18569.981
4.5	18254.053	18488.576	18548.661	18542.846	18573.857
5.0	18230.794	18475.009	18542.846	18538.970	18568.043
5.5	18213.351	18463.379	18535.093	18533.155	18560.290
6.0	18199.783	18451.750	18525.402	18519.588	18544.784
6.5	18180.401	18434.306	18515.711	18506.020	18523.464
7.0	18155.204	18414.924	18496.329	18486.638	18498.267
7.5	18133.884	18397.480	18478.885	18461.441	18471.132
8.0	18114.502	18376.160	18453.688	18434.306	18445.936
8.5	18104.811	18352.902	18430.430	18407.171	18426.554
9.0	18089.305	18327.705	18405.233	18380.036	18403.295
9.5	18067.985	18308.323	18383.913	18360.654	18385.851
10.0	18044.726	18290.879	18360.654	18337.396	18362.593
10.5	18023.406	18271.497	18333.519	18308.323	18335.458
11.0	18000.148	18252.115	18302.508	18275.373	18306.385
11.5	17980.765	18230.794	18271.497	18244.362	18261.806
12.0	17943.939	18203.659	18246.300	18203.659	18203.659
12.5	17903.237	18176.525	18211.412	18149.390	18157.142
13.0	17862.535	18145.513	18174.586	18095.120	18106.749
13.5	17819.894	18102.873	18137.760	18048.603	18050.541
14.0	17773.377	18062.170	18098.996	17996.271	17998.209
14.5	17711.354	18021.468	18052.479	17943.939	17953.630
15.0	17666.776	17980.765	18007.900	17891.608	17918.743
15.5	17641.579	17936.187	17955.569	17841.214	17883.855
16.0	17604.753	17885.793	17903.237	17796.636	17841.214
16.5	17565.989	17839.276	17841.214	17752.057	17802.450
17.0	17540.792	17790.821	17786.945	17707.478	17757.871
17.5	17500.090	17744.304	17728.798	17657.085	17715.231
18.0	17453.573	17690.034	17666.776	17610.567	17664.837
18.5	17403.179	17637.702	17612.506	17554.359	17598.938
19.0	17343.095	17587.309	17544.668	17496.213	17536.916
19.5	17277.196	17534.977	17480.707	17440.005	17486.522
20.0	17215.173	17482.646	17418.685	17379.921	17432.252
20.5	17155.088	17426.438	17362.477	17321.774	17377.982
21.0	17096.942	17366.353	17304.330	17267.504	17319.836
21.5	17029.105	17306.269	17244.246	17213.235	17255.875
22.0	16963.206	17246.184	17184.161	17155.088	17191.914
22.5	16906.998	17182.223	17120.201	17095.004	17133.768
23.0	16850.790	17116.324	17048.487	17025.228	17063.993
23.5	16794.581	17042.672	16978.711	16963.206	17001.970
24.0	16724.806	16976.773	16903.121	16901.183	16934.133
24.5	16664.721	16910.874	16825.593	16831.407	16870.172
25.0	16598.822	16829.469	16742.250	16767.447	16796.520
25.5	16523.232	16761.632	16668.598	16695.733	16726.744
26.0	16436.013	16693.795	16596.884	16624.019	16649.216
26.5	16341.041	16604.637	16527.109	16548.429	16573.626

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CANDELA TABULATION - (Cont.)

27.0	16253.82116517.41816451.51816474.77716498.035
27.5	16168.54016426.32216381.74316401.12516424.384
28.0	16087.13516335.22616306.15316331.35016350.732
28.5	16017.36016244.13016226.68616255.75916271.265
29.0	15939.83116154.97216145.28116166.60216193.737
29.5	15862.30316065.81516063.87716085.19716123.961
30.0	15784.77515966.96615976.65715999.91616042.556
30.5	15707.24615875.87015897.19115912.69615968.904
31.0	15623.90315775.08415817.72415831.29215887.500
31.5	15530.86915676.23515734.38115747.94915806.095
32.0	15433.95915587.07715647.16215662.66715720.814
32.5	15333.17215492.10515563.81915587.07715631.656
33.0	15228.50915399.07115488.22915503.73415550.251
33.5	15127.72215300.22215401.00915418.45315476.599
34.0	15024.99715195.55915306.03715329.29515391.318
34.5	14928.08615092.83415209.12615240.13815302.161
35.0	14838.92914986.23215102.52515152.91815207.188
35.5	14755.58614879.63114980.41815061.82315121.907
36.0	14654.79914765.27714881.56914970.72715032.749
36.5	14550.13514650.92214786.59714875.75514937.777
37.0	14429.96614536.56814681.93414782.72014844.743
37.5	14300.10614424.15214575.33214689.68614745.895
38.0	14176.06114313.67414480.36014592.77614643.169
38.5	14050.07714201.25814389.26414491.98914530.753
39.0	13939.60014088.84214282.66314383.44914426.090
39.5	13834.93613968.67314164.43214269.09514323.365
40.0	13726.39713842.68914046.20114160.55514216.763
40.5	13613.98013716.70513933.78514050.07714115.977
41.0	13509.31713590.72213819.43113929.90814013.251
41.5	13381.39513462.80013697.32313819.43113895.021
42.0	13239.90613336.81713573.27813701.20013774.852
42.5	13086.78813208.89513447.29413582.96913656.621
43.0	12937.54513079.03513327.12513464.73813542.267
43.5	12797.99412941.42213203.08013344.56913429.851
44.0	12673.94912811.56213090.66413228.27713325.187
44.5	12571.22412683.64012970.49513123.61413212.771
45.0	12464.62212547.96512850.32613015.07413082.911
45.5	12348.33012416.16712720.46612885.21412964.680
46.0	12210.71712280.49312575.10012741.78612836.759
46.5	12069.22812139.00312421.98212623.55612714.651
47.0	11919.98612003.32912292.12212501.44812596.421
47.5	11786.24911873.46912162.26212373.52712470.437
48.0	11664.14211747.48512024.64912251.41912340.577
48.5	11543.97311633.13111888.97412131.25012185.520
49.0	11416.05111476.13611761.05312007.20511987.823
49.5	11278.43911309.45011635.06911883.16011759.114
50.0	11105.93811169.89911503.27111749.42311483.889
50.5	10948.94311047.79211361.78111605.99611148.578
51.0	10801.63910902.42611220.29211431.55710762.875
51.5	10673.71710760.93711072.98811218.35410392.677
52.0	10551.61010607.81810933.43710970.26310094.193
52.5	10412.05910460.51410791.94810648.5219811.214
53.0	10251.18810301.58110646.58210280.2619386.746
53.5	10086.44010154.27710507.0319896.495 8814.975
54.0	9933.321 10020.54110359.7279572.815 8161.798
54.5	9805.400 9873.237 10210.4859293.712 7621.038

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CANDELA TABULATION - (Cont.)

55.0	9677.478	9700.736	10067.058	8944.835	7241.149
55.5	9514.668	9541.803	9919.754	8448.653	6952.356
56.0	9338.291	9413.881	9776.326	7830.365	6671.316
56.5	9190.987	9278.207	9630.961	7254.716	6320.500
57.0	9066.942	9127.026	9477.842	6847.693	5965.807
57.5	8927.391	8958.402	9309.218	6556.961	5671.200
58.0	8766.520	8793.654	9128.965	6320.500	5489.008
58.5	8586.266	8636.660	8908.009	6031.707	5374.654
59.0	8440.900	8483.541	8654.103	5636.312	5279.681
59.5	8299.411	8318.793	8365.310	5308.755	5145.945
60.0	8117.220	8146.293	8024.185	5114.934	4967.630
60.5	7942.781	7998.989	7717.948	5000.579	4740.859
61.0	7785.786	7838.117	7429.155	4903.669	4459.819
61.5	7648.173	7671.431	7093.845	4762.180	4163.273
62.0	7483.425	7495.054	6729.462	4579.988	3866.727
62.5	7279.913	7316.739	6258.477	4341.588	3473.271
63.0	7101.598	7163.621	5727.408	4045.042	2882.117
63.5	6960.109	7012.440	5297.125	3758.187	2405.317
64.0	6787.608	6836.063	5004.456	3471.332	2122.339
64.5	6622.860	6681.007	4781.562	3044.926	1862.813
65.0	6467.804	6522.073	4523.780	2486.722	1466.449
65.5	6262.353	6341.820	4200.099	2101.019	1270.690
66.0	6087.915	6175.134	3928.750	1865.526	1226.886
66.5	5936.734	6023.954	3765.940	1518.587	1206.729
67.0	5771.987	5855.330	3638.018	1272.628	1189.091
67.5	5599.486	5688.644	3504.282	1183.664	1171.647
68.0	5421.171	5537.463	3331.781	1159.243	1155.366
68.5	5266.114	5359.148	3087.567	1139.861	1139.473
69.0	5114.934	5198.277	2808.465	1121.835	1123.580
69.5	4946.310	5033.529	2570.065	1104.973	1107.299
70.0	4781.562	4880.410	2242.508	1088.886	1091.212
70.5	4622.629	4705.972	1822.304	1072.411	1075.706
71.0	4483.078	4523.780	1551.536	1057.099	1060.200
71.5	4322.206	4333.835	1347.249	1041.787	1042.756
72.0	4161.335	4132.262	1113.501	1024.537	1025.894
72.5	4002.402	3874.480	997.984	1008.063	1007.869
73.0	3853.160	3605.069	967.942	991.394	988.293
73.5	3703.918	3374.422	947.978	973.562	968.523
74.0	3554.675	3130.208	928.402	954.374	946.815
74.5	3407.372	2862.735	909.989	933.635	925.301
75.0	3242.624	2521.610	891.382	912.509	902.818
75.5	3091.443	2283.210	873.551	890.801	879.365
76.0	2940.263	2108.771	856.301	868.318	855.525
76.5	2779.392	1918.052	837.694	845.253	830.910
77.0	2618.520	1715.703	819.087	821.607	806.489
77.5	2455.711	1583.904	799.124	797.767	781.292
78.0	2273.519	1423.227	778.385	773.152	756.095
78.5	2122.339	1222.041	756.095	747.373	730.123
79.0	1988.602	1066.790	733.612	722.177	704.733
79.5	1849.827	842.152	710.547	696.980	678.761
80.0	1709.694	723.921	686.707	671.008	652.207
80.5	1569.368	613.249	662.867	644.261	626.042
81.0	1426.910	575.648	638.058	617.707	602.395
81.5	1286.389	552.196	612.086	591.541	579.718
82.0	1159.824	527.774	584.951	564.988	549.482
82.5	1046.827	503.159	557.817	538.628	522.735

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CANDELA TABULATION - (Cont.)

83.0	925.301	479.125	528.937	511.493	496.763
83.5	806.683	454.122	500.252	484.746	470.210
84.0	692.134	428.538	470.597	456.836	442.881
84.5	585.145	401.403	441.524	427.763	414.389
85.0	478.738	374.074	411.482	396.364	383.184
85.5	423.499	345.001	379.308	362.639	351.203
86.0	362.833	314.959	345.389	327.170	316.510
86.5	274.644	283.560	307.400	288.793	281.428
87.0	228.515	250.804	267.085	248.672	243.245
87.5	199.442	216.692	224.057	207.970	202.155
88.0	170.562	179.284	181.029	163.197	156.026
88.5	138.970	138.970	137.225	114.742	105.826
89.0	101.562	100.205	93.422	74.427	68.419
89.5	63.573	67.256	60.084	50.975	49.424
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-CA-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-CA-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-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6819.1	N.A.	14.00
0-30	14543.97	N.A.	29.80
0-40	23965.47	N.A.	49.10
0-60	42085.04	N.A.	86.20
0-80	48399.42	N.A.	99.10
0-90	48839.07	N.A.	100.00
10-90	47080.63	N.A.	96.40
20-40	17146.38	N.A.	35.10
20-50	27005.37	N.A.	55.30
40-70	22677.33	N.A.	46.40
60-80	6314.38	N.A.	12.90
70-80	1756.62	N.A.	3.60
80-90	439.65	N.A.	0.90
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	48839.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1758.43
10-20	5060.66
20-30	7724.87
30-40	9421.5
40-50	9858.99
50-60	8260.58
60-70	4557.76
70-80	1756.62
80-90	439.65
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-CA-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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

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

UGR TABLE - CORRECTED

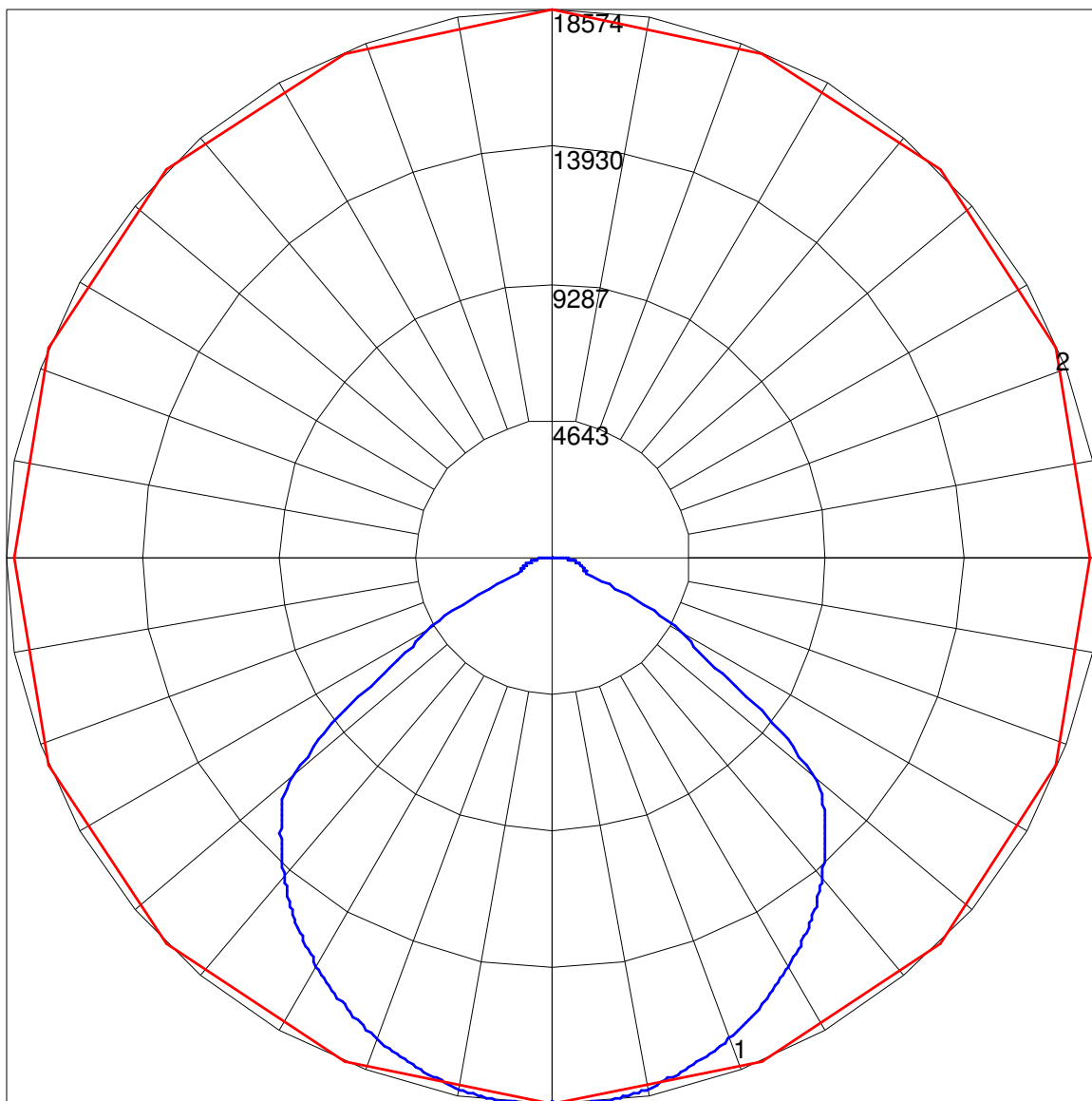
Reflectances

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	25.9	27.5	26.3	27.8	28.1	23.5	25.1	23.9	25.4	25.7
	3H	27.6	29.0	28.0	29.3	29.7	23.6	25.0	24.0	25.3	25.7
	4H	28.1	29.4	28.5	29.8	30.2	23.7	25.0	24.1	25.4	25.7
	6H	28.4	29.6	28.8	30.0	30.4	23.8	25.0	24.2	25.4	25.8
	8H	28.5	29.6	28.9	30.0	30.4	23.9	25.0	24.3	25.4	25.8
	12H	28.5	29.6	28.9	30.0	30.4	23.9	25.0	24.4	25.4	25.8
4H	2H	26.1	27.4	26.5	27.8	28.2	24.1	25.4	24.5	25.8	26.1
	3H	28.0	29.1	28.4	29.5	29.9	24.3	25.4	24.7	25.8	26.2
	4H	28.6	29.6	29.0	30.0	30.4	24.4	25.4	24.9	25.8	26.2
	6H	28.9	29.8	29.4	30.2	30.7	24.6	25.5	25.1	25.9	26.4
	8H	29.0	29.8	29.5	30.2	30.7	24.7	25.5	25.2	25.9	26.4
	12H	29.0	29.7	29.5	30.2	30.7	24.8	25.5	25.3	26.0	26.5
8H	4H	28.5	29.3	29.0	29.8	30.2	24.6	25.4	25.1	25.8	26.3
	6H	28.9	29.5	29.4	30.0	30.5	24.9	25.5	25.4	26.0	26.5
	8H	29.0	29.6	29.5	30.1	30.6	25.0	25.6	25.5	26.1	26.6
	12H	29.1	29.6	29.6	30.1	30.6	25.2	25.7	25.7	26.2	26.8
12H	4H	28.5	29.2	29.0	29.7	30.2	24.6	25.3	25.1	25.8	26.3
	6H	28.9	29.5	29.4	29.9	30.5	24.9	25.5	25.4	25.9	26.5
	8H	29.0	29.5	29.5	30.0	30.5	25.1	25.6	25.6	26.1	26.7

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 18573.857 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)