



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-850-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-L480-850-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	50304
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	49795	51336	52265
55	47661	49579	35662
65	43231	30237	9802
75	35391	9729	9854
85	15516	13337	12419

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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	19069.193	19069.193	19069.193	19069.193	19069.193
0.5	18833.623	19081.171	19123.094	19093.149	19131.080
1.0	18839.612	19083.167	19125.091	19093.149	19129.083
1.5	18847.597	19081.171	19127.087	19087.160	19123.094
2.0	18845.601	19085.163	19123.094	19089.156	19125.091
2.5	18841.608	19081.171	19125.091	19085.163	19119.102
3.0	18839.612	19073.185	19121.098	19087.160	19123.094
3.5	18833.623	19061.207	19119.102	19087.160	19123.094
4.0	18819.648	19055.218	19113.112	19095.145	19127.087
4.5	18801.681	19043.240	19105.127	19099.138	19131.080
5.0	18777.725	19029.265	19099.138	19095.145	19125.091
5.5	18759.757	19017.287	19091.153	19089.156	19117.105
6.0	18745.783	19005.309	19081.171	19075.182	19101.134
6.5	18725.819	18987.342	19071.189	19061.207	19079.174
7.0	18699.867	18967.378	19051.225	19041.244	19053.222
7.5	18677.907	18949.411	19033.258	19015.291	19025.273
8.0	18657.943	18927.451	19007.306	18987.342	18999.320
8.5	18647.961	18903.495	18983.349	18959.393	18979.357
9.0	18631.991	18877.542	18957.397	18931.444	18955.400
9.5	18610.031	18857.579	18935.437	18911.480	18937.433
10.0	18586.074	18839.612	18911.480	18887.524	18913.477
10.5	18564.115	18819.648	18883.532	18857.579	18885.528
11.0	18540.158	18799.685	18851.590	18823.641	18855.583
11.5	18520.195	18777.725	18819.648	18791.699	18809.666
12.0	18482.264	18749.776	18793.695	18749.776	18749.776
12.5	18440.340	18721.827	18757.761	18693.878	18701.863
13.0	18398.417	18689.885	18719.830	18637.980	18649.958
13.5	18354.497	18645.965	18681.900	18590.067	18592.064
14.0	18306.585	18604.042	18641.972	18536.166	18538.162
14.5	18242.701	18562.118	18594.060	18482.264	18492.246
15.0	18196.785	18520.195	18548.144	18428.362	18456.311
15.5	18170.832	18474.279	18494.242	18376.457	18420.377
16.0	18132.902	18422.373	18440.340	18330.541	18376.457
16.5	18092.975	18374.461	18376.457	18284.625	18336.530
17.0	18067.022	18324.552	18320.559	18238.709	18290.614
17.5	18025.098	18276.639	18260.668	18186.803	18246.694
18.0	17977.186	18220.741	18196.785	18138.891	18194.789
18.5	17925.281	18166.840	18140.887	18080.996	18126.913
19.0	17863.394	18114.934	18071.015	18021.106	18063.029
19.5	17795.517	18061.033	18005.135	17963.211	18011.124
20.0	17731.634	18007.131	17941.251	17901.324	17955.226
20.5	17669.747	17949.237	17883.357	17841.434	17899.328
21.0	17609.856	17887.350	17823.466	17785.536	17839.437
21.5	17539.984	17825.463	17761.579	17729.638	17773.558
22.0	17472.108	17763.576	17699.692	17669.747	17707.678
22.5	17414.213	17697.696	17633.813	17607.860	17647.787
23.0	17356.319	17629.820	17559.947	17535.991	17575.918
23.5	17298.425	17553.958	17488.079	17472.108	17512.035
24.0	17226.556	17486.082	17410.221	17408.224	17442.162
24.5	17164.669	17418.206	17330.367	17336.356	17376.283
25.0	17096.793	17334.359	17244.523	17270.476	17300.421
25.5	17018.935	17264.487	17168.662	17196.611	17228.552
26.0	16929.099	17194.614	17094.797	17122.746	17148.698
26.5	16831.278	17102.782	17022.928	17044.888	17070.840

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CANDELA TABULATION - (Cont.)

27.0	16741.44217012.94616945.07016969.02616992.982
27.5	16653.60216919.11716873.20116893.16516917.121
28.0	16569.75516825.28816795.34316821.29616841.259
28.5	16497.88616731.46016713.49316743.43816759.409
29.0	16418.03216639.62716629.64616651.60516679.554
29.5	16338.17816547.79516545.79916567.75916607.686
30.0	16258.32316445.98116455.96316479.91916523.839
30.5	16178.46916352.15216374.11216390.08316447.977
31.0	16092.62616248.34216292.26116306.23616364.130
31.5	15996.80116146.52716206.41816220.39316280.283
32.0	15896.98316054.69516116.58216132.55316192.444
32.5	15793.17215956.87416030.73916054.69516100.611
33.0	15685.36915861.04915952.88115968.85216016.764
33.5	15581.55915759.23415863.04515881.01215940.903
34.0	15475.75215651.43115765.22315789.18015853.063
34.5	15375.93415545.62415665.40615697.34715761.231
35.0	15284.10215435.82515555.60615607.51115663.409
35.5	15198.25815326.02515429.83615513.68315575.570
36.0	15094.44815208.24015328.02115419.85415483.737
36.5	14986.64515090.45515230.20015322.03215385.916
37.0	14862.87014972.67015122.39715226.20715290.091
37.5	14729.11514856.88115012.59715130.38215188.277
38.0	14601.34814743.08914914.77615030.56415082.470
38.5	14471.58514627.30014820.94714926.75414966.681
39.0	14357.79214511.51214711.14714814.95814858.878
39.5	14249.98914387.73814589.37014697.17314753.071
40.0	14138.19314257.97514467.59214585.37714643.271
40.5	14022.40514128.21114351.80314471.58514539.461
41.0	13914.60113998.44814234.01814347.81114433.654
41.5	13782.84213866.68914108.24814234.01814311.876
42.0	13637.10813736.92613980.48114112.24114188.102
42.5	13479.39613605.16613850.71813990.46314066.324
43.0	13325.67613471.41013726.94413868.68513948.539
43.5	13181.93913329.66913599.17713744.91113832.751
44.0	13054.17213195.91313483.38813625.13013724.948
44.5	12948.36513064.15413359.61413517.32713609.159
45.0	12838.56612924.40913235.84013405.53113475.403
45.5	12718.78412788.65713102.08413271.77513353.625
46.0	12577.04312648.91212952.35813124.04413221.866
46.5	12431.30912503.17812794.64613002.26713096.095
47.0	12277.58912363.43312660.89012876.49612974.318
47.5	12139.84112229.67712527.13412744.73712844.555
48.0	12014.07012099.91412385.39312618.96612710.799
48.5	11890.29611982.12912245.64812495.19212551.090
49.0	11758.53711820.42412113.88812367.42512347.462
49.5	11616.79611648.73711984.12512239.65912111.892
50.0	11439.12011505.00011848.37312101.91011828.409
50.5	11277.41511379.22911702.63911954.18011483.040
51.0	11125.69211229.50311556.90511774.50811085.765
51.5	10993.93311083.76911405.18211554.90910704.461
52.0	10868.16210926.05611261.44411299.37510397.022
52.5	10724.42410774.33311115.71010967.98010105.554
53.0	10558.72710610.63210965.98410588.6729668.352
53.5	10389.03710458.90910822.24610193.3949079.427
54.0	10231.32510321.16110670.5239860.002 8406.655
54.5	10099.56510169.43810516.8039572.527 7849.672

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CANDELA TABULATION - (Cont.)

55.0	9967.806	9991.762	10369.073	9213.183	7458.386
55.5	9800.112	9828.061	10217.350	8702.116	7160.929
56.0	9618.443	9696.301	10069.620	8065.278	6871.457
56.5	9466.720	9556.556	9919.893	7472.361	6510.117
57.0	9338.953	9400.840	9762.181	7053.126	6144.784
57.5	9195.216	9227.157	9588.498	6753.672	5841.338
58.0	9029.518	9057.467	9402.837	6510.117	5653.680
58.5	8843.857	8895.762	9175.252	6212.660	5535.895
59.0	8694.130	8738.050	8913.730	5805.403	5438.074
59.5	8548.396	8568.360	8616.273	5468.019	5300.325
60.0	8360.739	8390.684	8264.914	5268.384	5116.660
60.5	8181.067	8238.961	7949.490	5150.599	4883.087
61.0	8019.362	8073.264	7652.033	5050.781	4593.615
61.5	7877.621	7901.577	7306.663	4905.047	4288.173
62.0	7707.931	7719.909	6931.348	4717.389	3982.730
62.5	7498.313	7536.244	6446.234	4471.837	3577.470
63.0	7314.648	7378.532	5899.232	4166.395	2968.581
63.5	7168.914	7222.816	5456.041	3870.934	2477.478
64.0	6991.239	7041.148	5154.591	3575.474	2186.010
64.5	6821.548	6881.439	4925.010	3136.275	1918.698
65.0	6661.840	6717.738	4659.495	2561.325	1510.443
65.5	6450.226	6532.077	4326.103	2164.050	1308.811
66.0	6270.554	6360.390	4046.614	1921.493	1263.693
66.5	6114.838	6204.674	3878.920	1564.145	1242.931
67.0	5945.148	6030.992	3747.160	1310.807	1224.764
67.5	5767.473	5859.305	3609.412	1219.175	1206.797
68.0	5583.808	5703.589	3431.736	1194.021	1190.028
68.5	5424.099	5519.924	3180.195	1174.057	1173.658
69.0	5268.384	5354.227	2892.720	1155.491	1157.288
69.5	5094.701	5184.537	2647.168	1138.123	1140.518
70.0	4925.010	5026.824	2309.784	1121.553	1123.948
70.5	4761.309	4847.152	1876.974	1104.584	1107.978
71.0	4617.571	4659.495	1598.083	1088.813	1092.007
71.5	4451.874	4463.852	1387.667	1073.041	1074.040
72.0	4286.176	4256.231	1146.907	1055.274	1056.671
72.5	4122.475	3990.716	1027.924	1038.305	1038.105
73.0	3968.756	3713.222	996.980	1021.136	1017.942
73.5	3815.036	3475.656	976.418	1002.770	997.579
74.0	3661.317	3224.115	956.255	983.006	975.220
74.5	3509.594	2948.618	937.289	961.645	953.060
75.0	3339.904	2597.259	918.124	939.884	929.903
75.5	3184.188	2351.707	899.758	917.525	905.747
76.0	3028.472	2172.035	881.990	894.367	881.192
76.5	2862.775	1975.594	862.825	870.611	855.838
77.0	2697.077	1767.174	843.660	846.255	830.684
77.5	2529.383	1631.422	823.098	821.700	804.731
78.0	2341.726	1465.924	801.737	796.346	778.778
78.5	2186.010	1258.702	778.778	769.795	752.027
79.0	2048.261	1098.794	755.621	743.842	725.875
79.5	1905.322	867.417	731.864	717.890	699.124
80.0	1760.986	745.639	707.309	691.138	671.774
80.5	1616.449	631.647	682.754	663.589	644.823
81.0	1469.717	592.918	657.200	636.239	620.467
81.5	1324.981	568.762	630.449	609.288	597.110
82.0	1194.619	543.608	602.500	581.938	565.967
82.5	1078.232	518.254	574.551	554.787	538.417

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CANDELA TABULATION - (Cont.)

83.0	953.060	493.499	544.806	526.838	511.666
83.5	830.883	467.746	515.259	499.289	484.316
84.0	712.899	441.394	484.715	470.541	456.167
84.5	602.700	413.445	454.770	440.596	426.821
85.0	493.100	385.297	423.826	408.255	394.680
85.5	436.204	355.351	390.687	373.518	361.740
86.0	373.718	324.408	355.751	336.985	326.005
86.5	282.884	292.067	316.622	297.457	289.871
87.0	235.370	258.328	275.098	256.132	250.543
87.5	205.425	223.193	230.779	214.209	208.220
88.0	175.679	184.663	186.460	168.093	160.707
88.5	143.139	143.139	141.342	118.184	109.001
89.0	104.609	103.212	96.224	76.660	70.471
89.5	65.480	69.274	61.887	52.504	50.907
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-L480-850-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-L480-850-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-L480-850-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7023.67	N.A.	14.00
0-30	14980.29	N.A.	29.80
0-40	24684.45	N.A.	49.10
0-60	43347.61	N.A.	86.20
0-80	49851.42	N.A.	99.10
0-90	50304.26	N.A.	100.00
10-90	48493.07	N.A.	96.40
20-40	17660.78	N.A.	35.10
20-50	27815.54	N.A.	55.30
40-70	23357.66	N.A.	46.40
60-80	6503.81	N.A.	12.90
70-80	1809.32	N.A.	3.60
80-90	452.84	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	50304.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1811.19
10-20	5212.48
20-30	7956.62
30-40	9704.16
40-50	10154.76
50-60	8508.4
60-70	4694.5
70-80	1809.32
80-90	452.84
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-L480-850-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-L480-850-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

X=2H	Y=2H	26.0	27.6	26.4	27.9	28.2	23.6	25.2	24.0	25.5	25.8
	3H	27.7	29.1	28.1	29.4	29.8	23.7	25.1	24.1	25.4	25.8
	4H	28.2	29.5	28.6	29.9	30.3	23.8	25.1	24.2	25.5	25.8
	6H	28.5	29.7	28.9	30.1	30.5	23.9	25.1	24.3	25.5	25.9
	8H	28.6	29.7	29.0	30.1	30.5	24.0	25.1	24.4	25.5	25.9
	12H	28.6	29.7	29.0	30.1	30.5	24.0	25.1	24.5	25.5	25.9

UGR Viewed Endwise

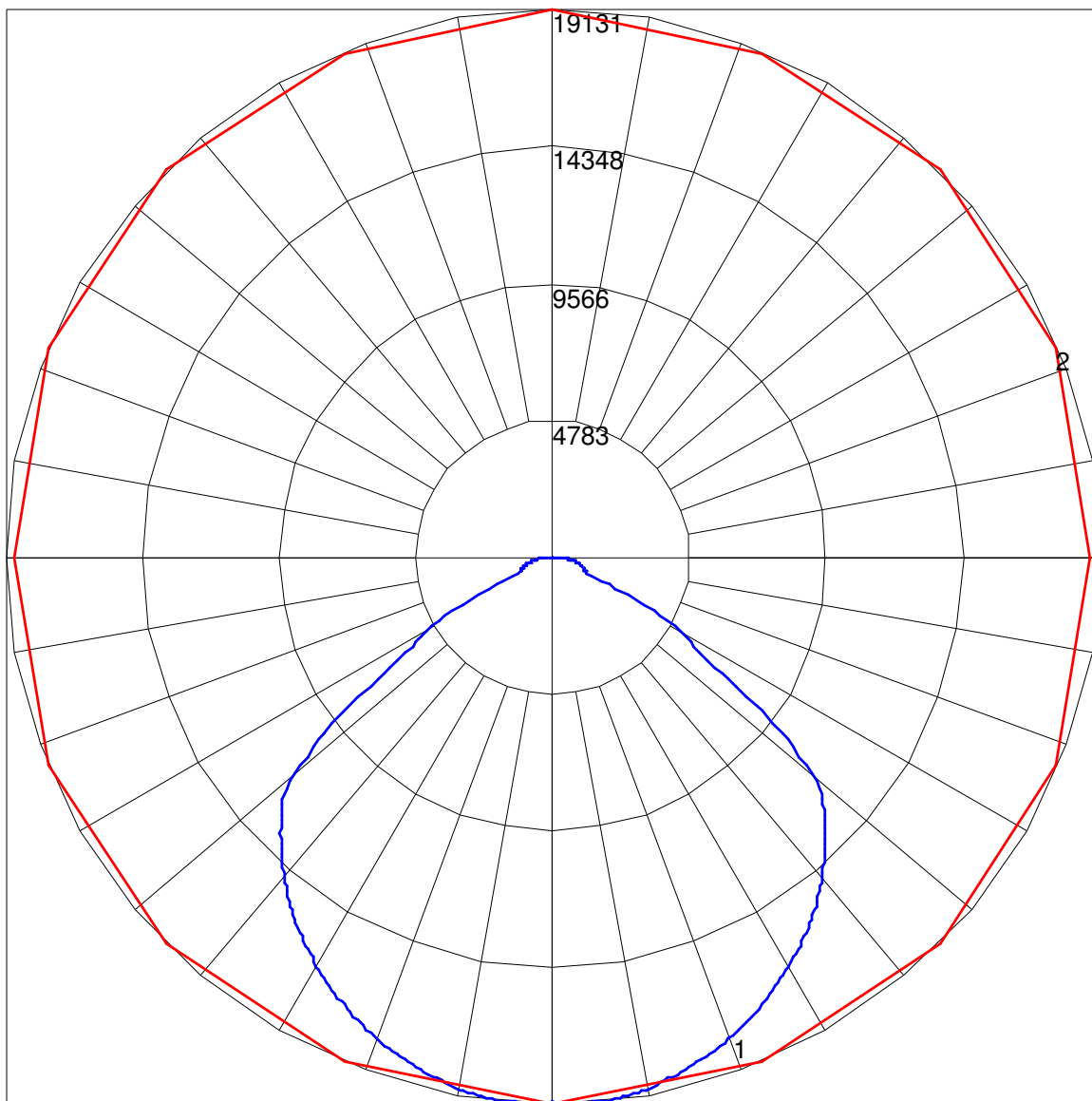
4H	2H	26.2	27.5	26.6	27.9	28.3	24.2	25.5	24.6	25.9	26.2
	3H	28.1	29.2	28.5	29.6	30.0	24.4	25.5	24.8	25.9	26.3
	4H	28.7	29.7	29.1	30.1	30.5	24.5	25.5	25.0	25.9	26.3
	6H	29.0	29.9	29.5	30.3	30.8	24.7	25.6	25.2	26.0	26.5
	8H	29.1	29.9	29.6	30.3	30.8	24.8	25.6	25.3	26.0	26.5
	12H	29.1	29.8	29.6	30.3	30.8	24.9	25.6	25.4	26.1	26.6

8H	4H	28.6	29.4	29.1	29.9	30.3	24.7	25.5	25.2	25.9	26.4
	6H	29.0	29.6	29.5	30.1	30.6	25.0	25.6	25.5	26.1	26.6
	8H	29.1	29.7	29.6	30.2	30.7	25.1	25.7	25.6	26.2	26.7
	12H	29.2	29.7	29.7	30.2	30.7	25.3	25.8	25.8	26.3	26.9

12H	4H	28.6	29.3	29.1	29.8	30.3	24.7	25.4	25.2	25.9	26.4
	6H	29.0	29.6	29.5	30.0	30.6	25.0	25.6	25.5	26.0	26.6
	8H	29.1	29.6	29.6	30.1	30.6	25.2	25.7	25.7	26.2	26.8

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 19131.08 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.)