



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-835-HA-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-14
[TESTDATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L480-835-HA-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	45098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	312
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	44642	46023	46856
55	42728	44449	31971
65	38757	27108	8787
75	31728	8722	8834
85	13911	11956	11134

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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	17095.73117095.73117095.73117095.73117095.731				
0.5	16884.54017106.46917144.05417117.20817151.213				
1.0	16889.90917108.25917145.84417117.20817149.423				
1.5	16897.06817106.46917147.63317111.83817144.054				
2.0	16895.27817110.04917144.05417113.62817145.844				
2.5	16891.69917106.46917145.84417110.04917140.474				
3.0	16889.90917099.31017142.26417111.83817144.054				
3.5	16884.54017088.57217140.47417111.83817144.054				
4.0	16872.01117083.20217135.10517118.99717147.633				
4.5	16855.90317072.46417127.94617122.57717151.213				
5.0	16834.42617059.93517122.57717118.99717145.844				
5.5	16818.31917049.19717115.41817113.62817138.685				
6.0	16805.79017038.45817106.46917101.10017124.367				
6.5	16787.89317022.35117097.52017088.57217104.679				
7.0	16764.62617004.45317079.62317070.67417081.412				
7.5	16744.93916988.34517063.51517047.40717056.356				
8.0	16727.04116968.65817040.24817022.35117033.089				
8.5	16718.09216947.18117018.77116997.29417015.192				
9.0	16703.77416923.91416995.50416972.23716993.715				
9.5	16684.08716906.01716975.81716954.34016977.607				
10.0	16662.61016889.90916954.34016932.86316956.130				
10.5	16642.92316872.01116929.28316906.01716931.073				
11.0	16621.44616854.11416900.64716875.59116904.227				
11.5	16603.54816834.42616872.01116846.95516863.062				
12.0	16569.54316809.37016848.74416809.37016809.370				
12.5	16531.95816784.31316816.52916759.25716766.416				
13.0	16494.37316755.67716782.52416709.14416719.882				
13.5	16454.99916716.30316748.51816666.19016667.979				
14.0	16412.04416678.71816712.72316617.86616619.656				
14.5	16354.77216641.13316669.76916569.54316578.492				
15.0	16313.60816603.54816628.60516521.21916546.276				
15.5	16290.34116562.38416580.28116474.68616514.060				
16.0	16256.33616515.85016531.95816433.52216474.686				
16.5	16220.54116472.89616474.68616392.35716438.891				
17.0	16197.27416428.15216424.57316351.19316397.726				
17.5	16159.68916385.19816370.88016304.65916358.352				
18.0	16116.73516335.08516313.60816261.70516311.818				
18.5	16070.20116286.76216263.49516209.80216250.967				
19.0	16014.71916240.22816200.85416156.11016193.694				
19.5	15953.86716191.90516141.79216104.20716147.161				
20.0	15896.59516143.58116084.51916048.72416097.048				
20.5	15841.11316091.67916032.61715995.03216046.935				
21.0	15787.42016036.19615978.92415944.91915993.242				
21.5	15724.77915980.71415923.44215894.80615934.180				
22.0	15663.92715925.23115867.95915841.11315875.118				
22.5	15612.02415866.17015808.89715785.63115821.426				
23.0	15560.12215805.31815742.67615721.19915756.995				
23.5	15508.21915737.30715678.24515663.92715699.722				
24.0	15443.78815676.45615608.44515606.65515637.081				
24.5	15388.30515615.60415536.85515542.22415578.019				
25.0	15327.45415540.43415459.89515483.16215510.008				
25.5	15257.65315477.79315391.88515416.94115445.577				
26.0	15177.11415415.15115325.66415350.72015373.987				
26.5	15089.41615332.82315261.23315280.92015304.187				

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CANDELA TABULATION - (Cont.)

27.0	15008.87715252.28415191.43215212.90915234.386
27.5	14930.12815168.16515127.00115144.89915166.376
28.0	14854.95815084.04715057.20115080.46715098.365
28.5	14790.52714999.92914983.82115010.66715024.985
29.0	14718.93714917.60014908.65114928.33814953.395
29.5	14647.34714835.27114833.48114853.16914888.964
30.0	14575.75714743.99414752.94214774.42014813.794
30.5	14504.16714659.87514679.56314693.88114745.783
31.0	14427.20714566.80814606.18314618.71114670.614
31.5	14341.29914475.53114529.22314541.75214595.444
32.0	14251.81114393.20214448.68414463.00214516.695
32.5	14158.74414305.50414371.72514393.20214434.366
33.0	14062.09714219.59614301.92414316.24314359.197
33.5	13969.03014128.31814221.38614237.49314291.186
34.0	13874.17314031.67214133.68814155.16514212.437
34.5	13784.68613936.81514044.20014072.83614130.108
35.0	13702.35713838.37813945.76313992.29714042.410
35.5	13625.39713739.94213833.00913908.17913963.661
36.0	13532.33013634.34613741.73113824.06013881.332
36.5	13435.68413528.75113654.03413736.36213793.634
37.0	13324.71913423.15513557.38713650.45413707.726
37.5	13204.80513319.35013458.95013564.54613616.449
38.0	13090.26113217.33413371.25213475.05813521.592
38.5	12973.92713113.52813287.13413381.99113417.786
39.0	12871.91113009.72213188.69713281.76513321.139
39.5	12775.26412898.75713079.52213176.16913226.282
40.0	12675.03812782.42312970.34713075.94313127.846
40.5	12571.23212666.08912866.54212973.92713034.779
41.0	12474.58612549.75512760.94612862.96212939.922
41.5	12356.46212431.63212648.19212760.94612830.747
42.0	12225.81012315.29812533.64712651.77112719.782
42.5	12084.41912197.17412417.31312542.59612610.607
43.0	11946.60812077.26012306.34912433.42112505.011
43.5	11817.74611950.18812191.80412322.45712401.206
44.0	11703.20211830.27412087.99912215.07112304.559
44.5	11608.34511712.15011977.03412118.42512200.753
45.0	11509.90811586.86811866.06912018.19812080.840
45.5	11402.52311465.16411746.15611898.28511971.665
46.0	11275.45011339.88211611.92411765.84311853.541
46.5	11144.79811209.23011470.53411656.66811740.786
47.0	11006.98711083.94711350.62011543.91411631.611
47.5	10883.49410964.03311230.70711425.79011515.277
48.0	10770.74010847.69911103.63411313.03511395.364
48.5	10659.77510742.10410978.35111202.07011252.184
49.0	10541.65110597.13410860.22711087.52611069.629
49.5	10414.57910443.21510743.89310972.98210858.438
50.0	10255.29110314.35210622.19010849.48910604.293
50.5	10110.32110201.59810491.53810717.04710294.665
51.0	9974.299 10067.36610360.88610555.9699938.504
51.5	9856.175 9936.714 10224.86510359.0969596.661
52.0	9743.421 9795.324 10096.00310130.0089321.039
52.5	9614.559 9659.303 9965.350 9832.909 9059.735
53.0	9466.009 9512.543 9831.119 9492.855 8667.779
53.5	9313.880 9376.521 9702.257 9138.484 8139.801
54.0	9172.489 9253.028 9566.235 8839.595 7536.654
54.5	9054.366 9117.007 9428.424 8581.871 7037.313

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CANDELA TABULATION - (Cont.)

55.0	8936.242	8957.719	9295.982	8259.715	6686.521
55.5	8785.903	8810.959	9159.961	7801.538	6419.848
56.0	8623.035	8692.835	9027.519	7230.606	6160.333
56.5	8487.014	8567.553	8893.288	6699.049	5836.388
57.0	8372.469	8427.952	8751.897	6323.201	5508.863
57.5	8243.607	8272.243	8596.189	6054.738	5236.820
58.0	8095.057	8120.114	8429.741	5836.388	5068.583
58.5	7928.610	7975.144	8225.710	5569.715	4962.988
59.0	7794.379	7833.753	7991.252	5204.605	4875.290
59.5	7663.727	7681.624	7724.578	4902.136	4751.797
60.0	7495.490	7522.336	7409.582	4723.161	4587.140
60.5	7334.412	7386.315	7126.801	4617.565	4377.738
61.0	7189.442	7237.765	6860.127	4528.078	4118.224
61.5	7062.369	7083.846	6550.500	4397.426	3844.392
62.0	6910.240	6920.979	6214.026	4229.189	3570.559
62.5	6722.316	6756.321	5779.116	4009.049	3207.239
63.0	6557.659	6614.931	5288.723	3735.217	2661.364
63.5	6427.007	6475.330	4891.398	3470.333	2221.085
64.0	6267.719	6312.462	4621.145	3205.449	1959.781
64.5	6115.590	6169.282	4415.323	2811.704	1720.133
65.0	5972.409	6022.522	4177.286	2296.254	1354.128
65.5	5782.695	5856.075	3878.397	1940.093	1173.363
66.0	5621.617	5702.156	3627.831	1722.638	1132.914
66.5	5482.017	5562.556	3477.492	1402.272	1114.301
67.0	5329.888	5406.847	3359.368	1175.152	1098.014
67.5	5170.599	5252.928	3235.875	1093.003	1081.906
68.0	5005.942	5113.327	3076.587	1070.452	1066.872
68.5	4862.762	4948.670	2851.078	1052.554	1052.196
69.0	4723.161	4800.120	2593.354	1035.910	1037.520
69.5	4567.452	4647.991	2373.214	1020.339	1022.486
70.0	4415.323	4506.601	2070.745	1005.484	1007.632
70.5	4268.563	4345.523	1682.727	990.271	993.313
71.0	4139.701	4177.286	1432.698	976.132	978.995
71.5	3991.151	4001.890	1244.058	961.993	962.888
72.0	3842.602	3815.756	1028.214	946.064	947.317
72.5	3695.842	3577.718	921.544	930.851	930.672
73.0	3558.031	3328.943	893.803	915.459	912.596
73.5	3420.220	3115.962	875.369	898.993	894.340
74.0	3282.409	2890.453	857.292	881.275	874.295
74.5	3146.388	2643.467	840.290	862.125	854.429
75.0	2994.258	2328.470	823.108	842.616	833.667
75.5	2854.658	2108.330	806.642	822.571	812.011
76.0	2715.057	1947.252	790.713	801.810	789.997
76.5	2566.507	1771.141	773.532	780.512	767.268
77.0	2417.958	1584.290	756.350	758.677	744.717
77.5	2267.618	1462.587	737.916	736.663	721.450
78.0	2099.381	1314.216	718.765	713.933	698.183
78.5	1959.781	1128.440	698.183	690.129	674.200
79.0	1836.288	985.081	677.422	666.862	650.755
79.5	1708.141	777.648	656.124	643.596	626.772
80.0	1578.742	668.473	634.110	619.613	602.252
80.5	1449.164	566.278	612.096	594.914	578.091
81.0	1317.617	531.557	589.187	570.395	556.256
81.5	1187.860	509.901	565.204	546.233	535.315
82.0	1070.989	487.350	540.148	521.713	507.395
82.5	966.646	464.620	515.091	497.373	482.697

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CANDELA TABULATION - (Cont.)

83.0	854.429	442.427	488.424	472.316	458.714
83.5	744.896	419.339	461.936	447.617	434.194
84.0	639.121	395.715	434.552	421.845	408.959
84.5	540.327	370.658	407.706	394.999	382.649
85.0	442.069	345.423	379.965	366.005	353.834
85.5	391.061	318.576	350.255	334.863	324.303
86.0	335.042	290.835	318.934	302.110	292.267
86.5	253.608	261.841	283.855	266.673	259.872
87.0	211.012	231.594	246.628	229.625	224.614
87.5	184.166	200.095	206.896	192.041	186.671
88.0	157.498	165.552	167.163	150.697	144.075
88.5	128.325	128.325	126.715	105.953	97.721
89.0	93.783	92.530	86.266	68.727	63.178
89.5	58.704	62.104	55.482	47.071	45.639
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-L480-835-HA-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-L480-835-HA-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-L480-835-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6296.8	N.A.	14.00
0-30	13429.99	N.A.	29.80
0-40	22129.87	N.A.	49.10
0-60	38861.58	N.A.	86.20
0-80	44692.32	N.A.	99.10
0-90	45098.29	N.A.	100.00
10-90	43474.54	N.A.	96.40
20-40	15833.07	N.A.	35.10
20-50	24936.92	N.A.	55.30
40-70	20940.38	N.A.	46.40
60-80	5830.74	N.A.	12.90
70-80	1622.07	N.A.	3.60
80-90	405.97	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	45098.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1623.75
10-20	4673.05
20-30	7133.19
30-40	8699.88
40-50	9103.85
50-60	7627.87
60-70	4208.67
70-80	1622.07
80-90	405.97
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-L480-835-HA-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-L480-835-HA-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

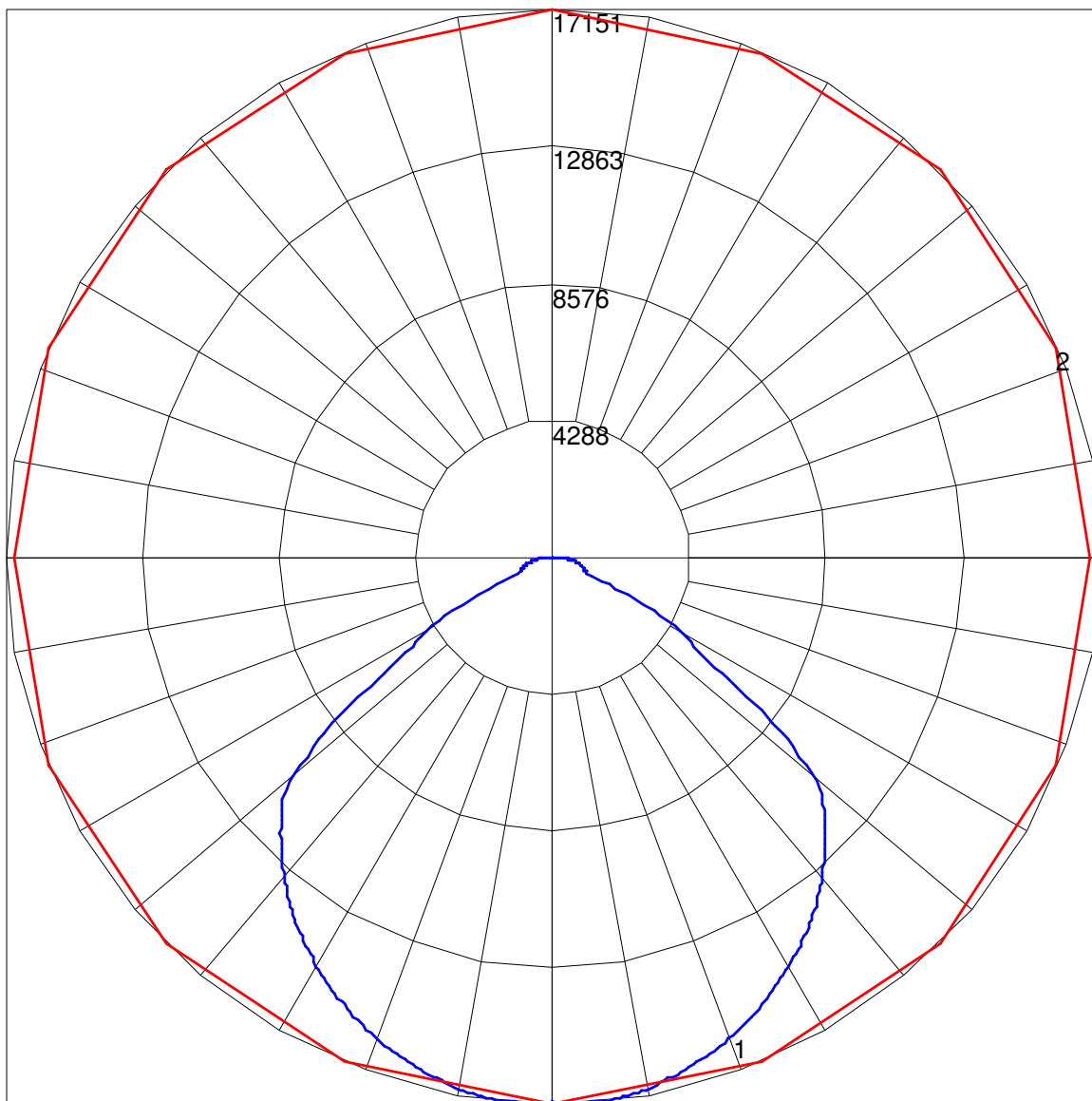
Reflectances

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	25.6	27.2	26.0	27.5	27.8	23.2	24.8	23.6	25.1	25.4
	3H	27.3	28.7	27.7	29.0	29.4	23.3	24.7	23.7	25.0	25.4
	4H	27.8	29.1	28.2	29.5	29.9	23.4	24.7	23.8	25.1	25.4
	6H	28.1	29.3	28.5	29.7	30.1	23.5	24.7	23.9	25.1	25.5
	8H	28.2	29.3	28.6	29.7	30.1	23.6	24.7	24.0	25.1	25.5
	12H	28.2	29.3	28.6	29.7	30.1	23.6	24.7	24.1	25.1	25.5
4H	2H	25.8	27.1	26.2	27.5	27.9	23.8	25.1	24.2	25.5	25.8
	3H	27.7	28.8	28.1	29.2	29.6	24.0	25.1	24.4	25.5	25.9
	4H	28.3	29.3	28.7	29.7	30.1	24.1	25.1	24.6	25.5	25.9
	6H	28.6	29.5	29.1	29.9	30.4	24.3	25.2	24.8	25.6	26.1
	8H	28.7	29.5	29.2	29.9	30.4	24.4	25.2	24.9	25.6	26.1
	12H	28.7	29.4	29.2	29.9	30.4	24.5	25.2	25.0	25.7	26.2
8H	4H	28.2	29.0	28.7	29.5	29.9	24.3	25.1	24.8	25.5	26.0
	6H	28.6	29.2	29.1	29.7	30.2	24.6	25.2	25.1	25.7	26.2
	8H	28.7	29.3	29.2	29.8	30.3	24.7	25.3	25.2	25.8	26.3
	12H	28.8	29.3	29.3	29.8	30.3	24.9	25.4	25.4	25.9	26.5
12H	4H	28.2	28.9	28.7	29.4	29.9	24.3	25.0	24.8	25.5	26.0
	6H	28.6	29.2	29.1	29.6	30.2	24.6	25.2	25.1	25.6	26.2
	8H	28.7	29.2	29.2	29.7	30.2	24.8	25.3	25.3	25.8	26.4

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 17151.213 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.)