



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 13257153.12  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 04-22-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 4CS-L25-835-xxx-DIM-UNV-OW-CS  
 [LUMINAIRE] Square Aluminum housing, optics, and trim enclosure  
 [LAMP] One white LED  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Downlight  
 [\_SEARCH\_MOUNTING] Surface, Suspended, Wall

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	32.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	97238	97761	101874
55	42749	53940	44682
65	1857	8632	1857
75	892	892	892
85	530	530	530

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	2714.186	2714.186	2714.186	2714.186	2714.186
<b>0.5</b>	2730.906	2717.901	2710.470	2706.755	2706.755
<b>1.0</b>	2729.048	2716.044	2708.613	2704.897	2703.039
<b>1.5</b>	2725.332	2712.328	2704.897	2701.182	2699.324
<b>2.0</b>	2719.759	2706.755	2699.324	2695.608	2695.608
<b>2.5</b>	2712.328	2699.324	2691.893	2690.035	2686.320
<b>3.0</b>	2703.039	2691.893	2682.604	2680.746	2678.888
<b>3.5</b>	2691.893	2680.746	2673.315	2669.600	2667.742
<b>4.0</b>	2678.888	2667.742	2662.169	2658.453	2656.595
<b>4.5</b>	2665.884	2654.738	2647.307	2645.449	2643.591
<b>5.0</b>	2651.022	2639.876	2632.445	2630.587	2628.729
<b>5.5</b>	2634.302	2623.156	2617.582	2613.867	2613.867
<b>6.0</b>	2617.582	2604.578	2599.005	2597.147	2595.289
<b>6.5</b>	2599.005	2587.858	2582.285	2578.569	2578.569
<b>7.0</b>	2578.569	2567.423	2561.850	2559.992	2559.992
<b>7.5</b>	2558.134	2546.988	2541.414	2541.414	2539.557
<b>8.0</b>	2537.699	2526.552	2520.979	2519.121	2517.263
<b>8.5</b>	2513.548	2502.401	2498.686	2496.828	2494.970
<b>9.0</b>	2489.397	2478.251	2474.535	2474.535	2472.677
<b>9.5</b>	2465.246	2454.100	2452.242	2450.384	2448.526
<b>10.0</b>	2439.238	2428.091	2426.233	2424.375	2422.518
<b>10.5</b>	2409.513	2402.082	2398.367	2396.509	2394.651
<b>11.0</b>	2381.647	2374.216	2370.500	2370.500	2366.785
<b>11.5</b>	2351.923	2344.492	2342.634	2340.776	2337.061
<b>12.0</b>	2320.341	2314.768	2312.910	2311.052	2309.194
<b>12.5</b>	2288.759	2283.186	2281.328	2279.470	2277.613
<b>13.0</b>	2255.319	2249.746	2251.604	2247.888	2244.173
<b>13.5</b>	2220.022	2216.306	2218.164	2214.449	2210.733
<b>14.0</b>	2186.582	2181.009	2184.725	2181.009	2175.436
<b>14.5</b>	2149.427	2145.712	2149.427	2145.712	2140.138
<b>15.0</b>	2112.272	2110.414	2112.272	2108.556	2104.841
<b>15.5</b>	2075.117	2073.259	2076.975	2071.401	2067.686
<b>16.0</b>	2036.104	2034.246	2039.819	2034.246	2030.531
<b>16.5</b>	1998.949	1997.091	2000.806	1997.091	1991.518
<b>17.0</b>	1958.078	1958.078	1961.794	1958.078	1952.505
<b>17.5</b>	1920.923	1919.065	1922.781	1920.923	1915.350
<b>18.0</b>	1880.052	1880.052	1883.768	1880.052	1874.479
<b>18.5</b>	1839.739	1840.482	1842.711	1841.039	1835.652
<b>19.0</b>	1800.168	1799.425	1801.840	1801.283	1795.710
<b>19.5</b>	1758.740	1759.855	1762.270	1760.784	1755.025
<b>20.0</b>	1718.056	1718.984	1720.842	1720.285	1713.597
<b>20.5</b>	1677.556	1678.299	1679.414	1679.600	1673.098
<b>21.0</b>	1634.271	1637.615	1639.101	1638.915	1632.413
<b>21.5</b>	1594.329	1596.558	1597.673	1597.859	1590.427
<b>22.0</b>	1553.830	1556.988	1556.802	1556.059	1548.814
<b>22.5</b>	1513.145	1515.560	1515.931	1516.117	1507.943
<b>23.0</b>	1471.717	1475.618	1475.618	1475.061	1467.444
<b>23.5</b>	1434.376	1434.933	1436.977	1436.233	1429.917
<b>24.0</b>	1395.363	1399.264	1401.679	1397.964	1388.489
<b>24.5</b>	1358.208	1362.109	1364.338	1360.437	1351.148
<b>25.0</b>	1317.523	1321.796	1325.139	1321.052	1310.277
<b>25.5</b>	1277.024	1282.039	1286.870	1280.925	1269.592
<b>26.0</b>	1236.339	1242.469	1248.600	1241.540	1230.022
<b>26.5</b>	1195.096	1202.899	1210.516	1201.599	1188.780

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.IES****CANDELA TABULATION - (Cont.)**

27.0	1153.854	1163.886	1172.617	1162.400	1148.281
27.5	1112.798	1125.059	1135.462	1123.573	1108.339
28.0	1071.741	1086.417	1098.121	1084.560	1068.583
28.5	1031.242	1047.962	1061.895	1045.918	1029.013
29.0	991.858	1009.878	1025.855	1007.463	990.186
29.5	952.659	972.537	989.814	970.308	951.916
30.0	914.389	934.824	954.702	932.595	914.946
30.5	877.048	897.855	919.776	895.626	878.163
31.0	840.636	861.257	885.222	859.585	842.122
31.5	805.710	825.588	851.225	824.102	807.754
32.0	772.085	790.848	818.343	790.105	774.128
32.5	739.945	757.408	786.389	757.408	742.546
33.0	708.364	724.712	754.993	725.455	711.707
33.5	678.639	693.501	724.154	694.616	681.983
34.0	650.216	663.220	694.430	665.263	653.931
34.5	623.092	634.053	665.263	636.840	627.365
35.0	597.455	606.558	637.583	610.088	602.657
35.5	572.933	580.364	610.460	584.637	578.878
36.0	549.525	555.470	584.637	560.300	556.213
36.5	527.232	531.505	559.185	537.264	535.035
37.0	506.239	509.026	534.849	515.157	514.785
37.5	485.990	487.476	511.441	494.164	495.650
38.0	466.855	467.041	488.776	474.286	477.444
38.5	448.649	447.906	467.412	455.894	460.167
39.0	431.557	429.700	447.163	438.060	443.819
39.5	415.023	412.422	427.656	421.340	428.213
40.0	399.418	396.260	409.450	405.363	412.980
40.5	384.556	380.655	392.173	390.129	398.489
41.0	370.623	365.793	375.825	375.825	384.556
41.5	357.247	351.860	360.963	362.449	371.552
42.0	344.429	338.669	346.844	349.630	358.919
42.5	331.982	326.222	333.654	337.369	346.286
43.0	320.278	314.333	321.207	325.665	334.397
43.5	308.760	302.815	309.317	314.333	322.879
44.0	297.613	292.040	298.356	303.372	311.546
44.5	286.838	281.450	287.767	292.969	300.585
45.0	276.620	271.419	278.107	282.937	289.810
45.5	266.217	261.572	268.632	273.276	278.850
46.0	256.185	252.098	259.529	263.616	268.260
46.5	246.153	242.809	250.797	254.141	258.043
47.0	236.493	233.706	242.252	244.853	247.825
47.5	226.832	224.975	234.078	235.935	237.422
48.0	217.172	216.429	226.275	227.018	227.204
48.5	207.883	207.883	218.287	218.472	217.544
49.0	198.780	199.709	210.670	210.113	207.697
49.5	189.491	191.535	203.053	201.567	197.851
50.0	180.388	183.732	195.808	193.393	188.563
50.5	171.471	175.930	188.377	185.219	179.088
51.0	162.925	168.313	181.132	177.416	170.171
51.5	154.194	160.696	174.258	169.428	161.068
52.0	145.648	153.079	167.013	161.625	152.336
52.5	137.474	145.834	159.767	154.008	143.605
53.0	129.300	138.403	152.708	146.391	135.059
53.5	121.312	131.158	145.648	138.960	126.699
54.0	113.509	124.098	138.589	131.529	118.525
54.5	106.078	117.039	131.529	124.098	110.722

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.IES****CANDELA TABULATION - (Cont.)**

55.0	98.647	110.165	124.470	116.853	103.106
55.5	91.588	103.291	117.410	109.422	95.489
56.0	84.714	96.603	110.537	102.363	88.244
56.5	78.026	89.916	103.663	95.489	81.184
57.0	71.709	83.413	96.789	88.615	74.310
57.5	65.579	77.283	90.101	81.927	67.808
58.0	59.820	71.152	83.599	75.425	61.678
58.5	54.247	65.207	76.911	69.109	55.547
59.0	49.045	59.448	70.781	62.792	49.602
59.5	43.843	53.875	64.650	56.847	44.029
60.0	38.827	48.673	58.705	51.274	38.456
60.5	33.625	43.657	52.946	45.701	33.068
61.0	28.981	38.827	47.744	40.313	27.866
61.5	24.337	33.997	42.357	35.297	23.222
62.0	20.250	29.538	37.341	30.096	19.135
62.5	16.720	25.080	32.697	25.266	15.234
63.0	13.004	20.807	28.424	20.807	10.589
63.5	7.803	16.906	24.522	16.720	6.874
64.0	4.087	13.562	20.807	13.190	4.273
64.5	3.344	10.589	17.649	10.032	3.530
65.0	3.158	7.431	14.676	6.502	3.158
65.5	2.972	4.087	12.075	4.273	2.972
66.0	2.787	2.787	9.846	2.972	2.787
66.5	2.601	2.601	7.988	2.601	2.787
67.0	2.415	2.415	6.316	2.415	2.601
67.5	2.415	2.229	5.016	2.229	2.415
68.0	2.229	2.044	4.087	2.229	2.229
68.5	2.044	2.044	3.344	2.044	2.229
69.0	2.044	1.858	2.601	1.858	2.044
69.5	1.858	1.672	2.229	1.858	1.858
70.0	1.672	1.672	1.858	1.672	1.858
70.5	1.672	1.486	1.672	1.672	1.672
71.0	1.486	1.486	1.486	1.486	1.672
71.5	1.486	1.300	1.300	1.486	1.486
72.0	1.300	1.300	1.300	1.300	1.486
72.5	1.300	1.300	1.300	1.300	1.300
73.0	1.300	1.115	1.115	1.115	1.300
73.5	1.115	1.115	1.115	1.115	1.115
74.0	1.115	1.115	0.929	1.115	1.115
74.5	0.929	0.929	0.929	0.929	1.115
75.0	0.929	0.929	0.929	0.929	0.929
75.5	0.929	0.743	0.929	0.929	0.929
76.0	0.929	0.743	0.743	0.743	0.929
76.5	0.743	0.743	0.743	0.743	0.743
77.0	0.743	0.743	0.743	0.743	0.743
77.5	0.743	0.743	0.743	0.743	0.743
78.0	0.743	0.557	0.557	0.557	0.743
78.5	0.557	0.557	0.557	0.557	0.557
79.0	0.557	0.557	0.557	0.557	0.557
79.5	0.557	0.557	0.557	0.557	0.557
80.0	0.557	0.557	0.557	0.557	0.557
80.5	0.372	0.372	0.372	0.372	0.557
81.0	0.372	0.372	0.372	0.372	0.372
81.5	0.372	0.372	0.372	0.372	0.372
82.0	0.372	0.372	0.372	0.372	0.372
82.5	0.372	0.372	0.372	0.372	0.372

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## CANDELA TABULATION - (Cont.)

83.0	0.372	0.372	0.372	0.372	0.372
83.5	0.372	0.372	0.372	0.372	0.372
84.0	0.186	0.186	0.186	0.186	0.372
84.5	0.186	0.186	0.186	0.186	0.186
85.0	0.186	0.186	0.186	0.186	0.186
85.5	0.186	0.186	0.186	0.186	0.186
86.0	0.186	0.186	0.186	0.186	0.186
86.5	0.186	0.186	0.186	0.186	0.186
87.0	0.186	0.186	0.186	0.186	0.186
87.5	0.186	0.186	0.186	0.186	0.186
88.0	0.186	0.186	0.186	0.186	0.186
88.5	0.186	0.186	0.186	0.186	0.186
89.0	0.186	0.000	0.000	0.000	0.186
89.5	0.000	0.000	0.000	0.000	0.000
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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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 : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.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 : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.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 : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	828.51	N.A.	38.50
0-30	1428.57	N.A.	66.30
0-40	1819.14	N.A.	84.40
0-60	2139.13	N.A.	99.30
0-80	2154.45	N.A.	100.00
0-90	2154.71	N.A.	100.00
10-90	1909.83	N.A.	88.60
20-40	990.63	N.A.	46.00
20-50	1208.66	N.A.	56.10
40-70	334.27	N.A.	15.50
60-80	15.32	N.A.	0.70
70-80	1.04	N.A.	0.00
80-90	0.26	N.A.	0.00
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	2154.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	244.89
10-20	583.62
20-30	600.07
30-40	390.56
40-50	218.04
50-60	101.96
60-70	14.28
70-80	1.04
80-90	0.26
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 : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	79	75	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	71	61	55	51	69	60	54	51	59	54	50	59	54	50	58	53	50	49

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OW-CS\_.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

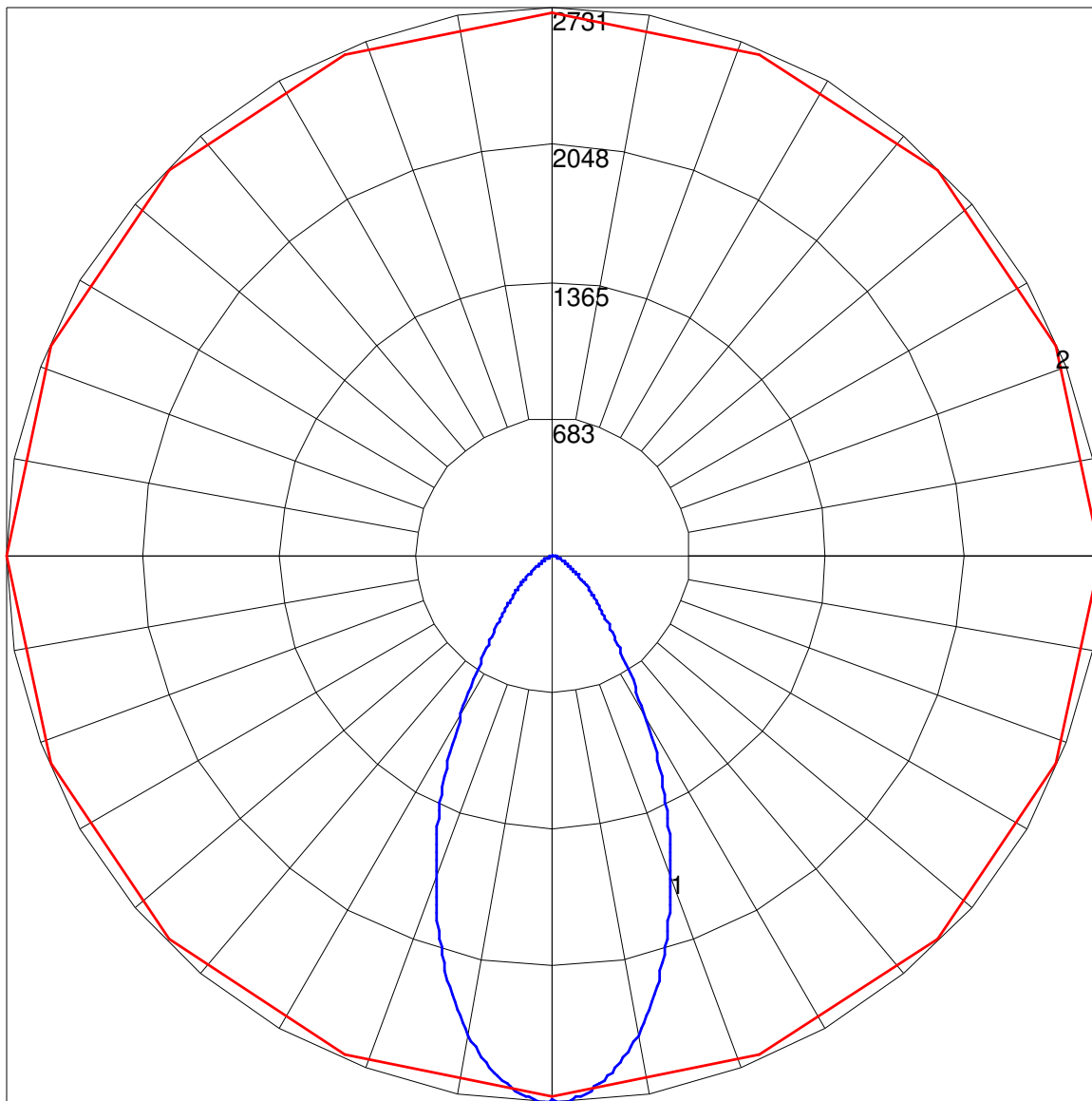
X=2H	Y=2H	19.6	20.7	20.0	21.0	21.3	20.0	21.1	20.4	21.4	21.7
	3H	19.5	20.4	19.8	20.7	21.1	19.8	20.8	20.2	21.1	21.5
	4H	19.4	20.2	19.8	20.6	21.0	19.7	20.6	20.1	21.0	21.4
	6H	19.3	20.1	19.7	20.4	20.8	19.6	20.4	20.1	20.8	21.2
	8H	19.2	20.0	19.6	20.4	20.8	19.6	20.3	20.0	20.7	21.1
	12H	19.2	19.9	19.6	20.3	20.7	19.5	20.3	20.0	20.6	21.1

### UGR Viewed Endwise

4H	2H	19.4	20.3	19.8	20.7	21.1	19.8	20.7	20.2	21.0	21.4
	3H	19.3	20.0	19.7	20.4	20.8	19.6	20.3	20.0	20.7	21.2
	4H	19.1	19.8	19.6	20.2	20.7	19.5	20.1	20.0	20.6	21.0
	6H	19.0	19.6	19.5	20.0	20.5	19.4	20.0	19.9	20.4	20.9
	8H	19.0	19.5	19.5	19.9	20.4	19.3	19.9	19.8	20.3	20.8
	12H	18.9	19.4	19.4	19.8	20.3	19.3	19.7	19.8	20.2	20.7
8H	4H	19.0	19.5	19.5	19.9	20.4	19.3	19.8	19.8	20.3	20.8
	6H	18.9	19.3	19.4	19.8	20.2	19.2	19.6	19.7	20.1	20.6
	8H	18.8	19.1	19.3	19.7	20.2	19.1	19.5	19.7	20.0	20.5
	12H	18.7	19.0	19.2	19.5	20.1	19.1	19.4	19.6	19.9	20.5
12H	4H	18.9	19.4	19.4	19.8	20.3	19.3	19.7	19.8	20.2	20.7
	6H	18.8	19.2	19.3	19.6	20.2	19.2	19.5	19.7	20.0	20.5
	8H	18.7	19.0	19.2	19.5	20.1	19.1	19.4	19.6	19.9	20.5

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 2730.906 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)