



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OM-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13257153.18
 [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-OM-CS
 [LUMINAIRE] Square cylinder 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	1734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	32.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.78
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	87798	79090	92068
55	47316	46016	49298
65	1484	10857	1577
75	758	758	758
85	451	451	451

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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	2186.828	2186.828	2186.828	2186.828	2186.828
0.5	2186.828	2186.828	2183.672	2185.250	2186.828
1.0	2185.250	2185.250	2182.095	2182.095	2185.250
1.5	2180.517	2182.095	2177.361	2178.939	2180.517
2.0	2175.783	2175.783	2172.628	2172.628	2175.783
2.5	2169.472	2169.472	2164.739	2166.317	2167.894
3.0	2160.005	2160.005	2156.850	2158.428	2158.428
3.5	2148.961	2150.539	2145.805	2147.383	2148.961
4.0	2137.916	2137.916	2134.761	2136.339	2136.339
4.5	2125.294	2125.294	2122.138	2122.138	2123.716
5.0	2109.516	2111.094	2107.938	2107.938	2109.516
5.5	2095.316	2095.316	2092.160	2093.738	2093.738
6.0	2077.960	2079.538	2074.804	2076.382	2077.960
6.5	2062.182	2062.182	2057.449	2059.026	2060.604
7.0	2043.248	2043.248	2040.093	2041.671	2041.671
7.5	2024.315	2024.315	2021.159	2021.159	2022.737
8.0	2003.803	2003.803	2000.648	2002.226	2002.226
8.5	1983.292	1983.292	1980.137	1981.714	1980.137
9.0	1961.203	1961.203	1959.625	1959.625	1959.625
9.5	1937.536	1939.114	1937.536	1937.536	1937.536
10.0	1913.869	1915.447	1913.869	1913.869	1912.291
10.5	1890.202	1890.202	1890.202	1890.202	1888.624
11.0	1861.802	1864.957	1868.113	1864.957	1861.802
11.5	1836.557	1839.712	1842.868	1838.135	1834.979
12.0	1808.157	1811.312	1817.623	1811.312	1806.579
12.5	1779.756	1784.490	1790.801	1782.912	1778.178
13.0	1751.356	1756.089	1763.978	1756.089	1749.778
13.5	1721.378	1727.689	1737.156	1727.689	1721.378
14.0	1691.399	1697.711	1708.755	1699.288	1691.399
14.5	1659.844	1669.310	1680.355	1669.310	1661.421
15.0	1631.443	1639.332	1650.377	1639.332	1629.865
15.5	1598.309	1609.354	1620.399	1607.776	1599.887
16.0	1568.805	1577.798	1588.843	1577.640	1568.173
16.5	1537.249	1548.135	1559.022	1547.504	1537.564
17.0	1506.166	1517.526	1527.466	1516.579	1506.797
17.5	1474.926	1486.601	1495.753	1485.497	1475.083
18.0	1443.370	1455.834	1463.565	1454.414	1442.738
18.5	1412.603	1424.909	1432.641	1423.489	1410.394
19.0	1381.835	1393.196	1400.611	1391.776	1379.153
19.5	1350.122	1361.955	1368.266	1361.166	1347.124
20.0	1318.092	1330.557	1337.184	1329.295	1315.410
20.5	1286.694	1299.159	1304.997	1298.054	1283.223
21.0	1254.349	1268.392	1273.283	1266.341	1252.298
21.5	1223.109	1236.994	1242.043	1236.363	1222.320
22.0	1194.551	1208.120	1213.169	1206.227	1190.922
22.5	1165.835	1177.984	1181.771	1174.828	1159.208
23.0	1136.330	1149.584	1152.739	1144.061	1130.334
23.5	1105.405	1118.659	1122.130	1115.503	1099.883
24.0	1074.480	1087.892	1091.205	1084.421	1068.327
24.5	1043.398	1057.440	1060.280	1053.654	1036.771
25.0	1011.842	1026.989	1030.144	1022.886	1005.215
25.5	980.286	996.379	1000.324	992.277	973.659
26.0	948.257	966.401	970.977	962.141	942.103
26.5	915.754	936.108	941.630	931.690	910.074

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

27.0	883.094	905.814	912.756	901.712	878.676
27.5	850.749	875.678	884.671	871.418	847.751
28.0	818.719	845.700	856.744	841.440	817.142
28.5	787.479	816.037	829.291	811.777	787.006
29.0	756.870	786.532	802.626	782.903	757.816
29.5	727.680	757.501	776.434	754.345	729.889
30.0	699.438	728.627	750.559	726.418	702.593
30.5	671.984	700.542	724.525	698.965	676.086
31.0	645.793	673.089	699.122	672.142	650.526
31.5	620.706	646.739	674.351	646.266	626.228
32.0	597.039	621.337	650.211	621.495	603.192
32.5	574.476	596.881	626.544	597.828	581.261
33.0	552.860	573.372	603.192	574.950	560.276
33.5	532.349	550.809	580.314	553.018	540.080
34.0	512.784	529.351	558.067	532.033	521.147
34.5	494.324	508.840	536.294	512.153	503.002
35.0	477.126	489.275	515.309	493.062	486.120
35.5	460.559	470.815	494.797	475.233	469.868
36.0	444.781	452.986	474.759	458.035	454.564
36.5	429.634	435.946	455.353	441.468	440.048
37.0	415.276	419.852	436.419	425.690	426.163
37.5	401.550	404.232	417.801	410.701	412.594
38.0	388.296	389.401	399.972	396.185	399.656
38.5	375.674	375.358	382.932	382.458	387.665
39.0	363.525	361.789	366.680	369.363	375.831
39.5	351.691	348.851	350.902	356.740	364.471
40.0	340.647	336.387	335.913	344.749	353.427
40.5	329.760	324.395	321.713	333.073	342.856
41.0	319.504	313.035	308.144	321.871	332.758
41.5	309.564	302.306	295.522	311.300	322.817
42.0	300.097	292.050	283.846	301.202	313.351
42.5	290.946	282.268	272.486	291.419	304.199
43.0	282.110	272.801	261.914	281.953	295.206
43.5	273.590	263.650	251.817	272.801	286.528
44.0	265.386	254.972	242.350	263.966	278.166
44.5	257.497	246.610	233.514	255.603	269.961
45.0	249.765	238.563	224.994	247.399	261.914
45.5	242.034	230.674	217.105	239.510	254.025
46.0	234.461	223.101	209.532	231.936	246.136
46.5	227.045	215.685	202.116	224.363	238.405
47.0	219.787	208.269	195.174	216.789	230.674
47.5	212.687	201.169	188.389	209.689	222.943
48.0	205.587	194.385	181.920	202.589	215.369
48.5	198.487	187.442	175.924	195.647	207.796
49.0	191.387	180.816	169.771	189.020	200.223
49.5	184.602	174.347	163.775	182.393	192.807
50.0	177.502	167.878	157.938	175.609	185.233
50.5	170.718	161.724	152.415	169.298	177.976
51.0	163.933	155.571	146.893	162.987	170.718
51.5	156.991	149.733	141.686	156.833	163.302
52.0	150.049	143.895	136.480	150.837	155.886
52.5	142.948	137.900	131.273	144.842	148.786
53.0	136.006	132.219	126.066	139.004	141.528
53.5	129.222	126.697	121.017	133.166	134.586
54.0	122.437	121.490	115.968	127.486	127.486
54.5	115.810	115.968	110.919	121.806	120.544

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55.0	109.184	110.604	106.186	116.126	113.759
55.5	102.557	105.239	101.295	110.604	106.975
56.0	96.403	99.875	96.246	104.924	100.506
56.5	90.092	94.668	91.512	99.401	93.879
57.0	83.939	89.619	86.779	93.879	87.410
57.5	77.943	84.412	82.045	88.357	80.941
58.0	71.948	79.205	77.312	82.992	74.630
58.5	65.952	74.157	72.579	77.470	68.003
59.0	59.956	68.950	68.003	71.948	61.219
59.5	53.961	63.901	63.427	66.425	54.592
60.0	47.492	58.694	59.010	60.903	47.807
60.5	40.865	53.487	54.592	55.223	41.496
61.0	34.238	48.281	50.174	49.385	35.343
61.5	27.927	42.758	45.914	43.389	29.347
62.0	22.405	37.078	41.654	37.394	22.563
62.5	17.671	31.240	37.552	31.714	16.409
63.0	13.254	25.718	33.449	26.191	12.938
63.5	6.469	20.511	29.505	20.985	10.256
64.0	3.156	15.620	25.718	15.620	7.889
64.5	2.840	11.202	21.931	11.202	4.260
65.0	2.524	7.889	18.460	8.520	2.682
65.5	2.367	5.207	15.305	6.311	2.524
66.0	2.209	3.156	12.307	4.260	2.367
66.5	2.051	2.051	9.782	2.524	2.209
67.0	2.051	1.893	7.573	2.051	2.051
67.5	1.893	1.736	5.838	1.893	2.051
68.0	1.736	1.736	4.418	1.736	1.893
68.5	1.736	1.578	3.313	1.578	1.736
69.0	1.578	1.420	2.682	1.578	1.578
69.5	1.420	1.420	2.051	1.420	1.578
70.0	1.420	1.262	1.736	1.420	1.420
70.5	1.262	1.262	1.420	1.262	1.420
71.0	1.262	1.104	1.262	1.262	1.262
71.5	1.104	1.104	1.104	1.104	1.262
72.0	1.104	1.104	1.104	1.104	1.104
72.5	0.947	0.947	0.947	0.947	1.104
73.0	0.947	0.947	0.947	0.947	0.947
73.5	0.947	0.789	0.947	0.947	0.947
74.0	0.789	0.789	0.789	0.789	0.947
74.5	0.789	0.789	0.789	0.789	0.789
75.0	0.789	0.789	0.789	0.789	0.789
75.5	0.789	0.631	0.631	0.631	0.789
76.0	0.631	0.631	0.631	0.631	0.631
76.5	0.631	0.631	0.631	0.631	0.631
77.0	0.631	0.631	0.631	0.631	0.631
77.5	0.473	0.473	0.473	0.473	0.631
78.0	0.473	0.473	0.473	0.473	0.473
78.5	0.473	0.473	0.473	0.473	0.473
79.0	0.473	0.473	0.473	0.473	0.473
79.5	0.473	0.316	0.473	0.473	0.473
80.0	0.316	0.316	0.316	0.316	0.473
80.5	0.316	0.316	0.316	0.316	0.316
81.0	0.316	0.316	0.316	0.316	0.316
81.5	0.316	0.316	0.316	0.316	0.316
82.0	0.316	0.316	0.316	0.316	0.316
82.5	0.316	0.316	0.316	0.316	0.316

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OM-CS_.IES

CANDELA TABULATION - (Cont.)

83.0	0.316	0.158	0.316	0.316	0.316
83.5	0.158	0.158	0.158	0.158	0.158
84.0	0.158	0.158	0.158	0.158	0.158
84.5	0.158	0.158	0.158	0.158	0.158
85.0	0.158	0.158	0.158	0.158	0.158
85.5	0.158	0.158	0.158	0.158	0.158
86.0	0.158	0.158	0.158	0.158	0.158
86.5	0.158	0.158	0.158	0.158	0.158
87.0	0.158	0.158	0.158	0.158	0.158
87.5	0.158	0.158	0.158	0.158	0.158
88.0	0.158	0.158	0.000	0.158	0.158
88.5	0.158	0.000	0.000	0.000	0.000
89.0	0.000	0.000	0.000	0.000	0.158
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-OM-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-OM-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-OM-CS_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	649.02	N.A.	37.40
0-30	1113.91	N.A.	64.20
0-40	1428.08	N.A.	82.40
0-60	1716.41	N.A.	99.00
0-80	1733.87	N.A.	100.00
0-90	1734.07	N.A.	100.00
10-90	1539.03	N.A.	88.80
20-40	779.06	N.A.	44.90
20-50	967.96	N.A.	55.80
40-70	304.96	N.A.	17.60
60-80	17.46	N.A.	1.00
70-80	0.83	N.A.	0.00
80-90	0.20	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	1734.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.03
10-20	453.99
20-30	464.88
30-40	314.17
40-50	188.91
50-60	99.43
60-70	16.63
70-80	0.83
80-90	0.20
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-OM-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	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L25-835-XXX-DIM-UNV-OM-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	21.1	22.2	21.4	22.5	22.8	21.4	22.5	21.7	22.8	23.1
	3H	20.9	21.9	21.3	22.2	22.6	21.2	22.2	21.6	22.5	22.9
	4H	20.8	21.7	21.2	22.1	22.4	21.1	22.0	21.5	22.4	22.8
	6H	20.7	21.5	21.1	21.9	22.3	21.0	21.8	21.4	22.2	22.6
	8H	20.6	21.4	21.1	21.8	22.2	21.0	21.7	21.4	22.1	22.5
	12H	20.6	21.3	21.0	21.7	22.2	20.9	21.7	21.3	22.0	22.5

UGR Viewed Endwise

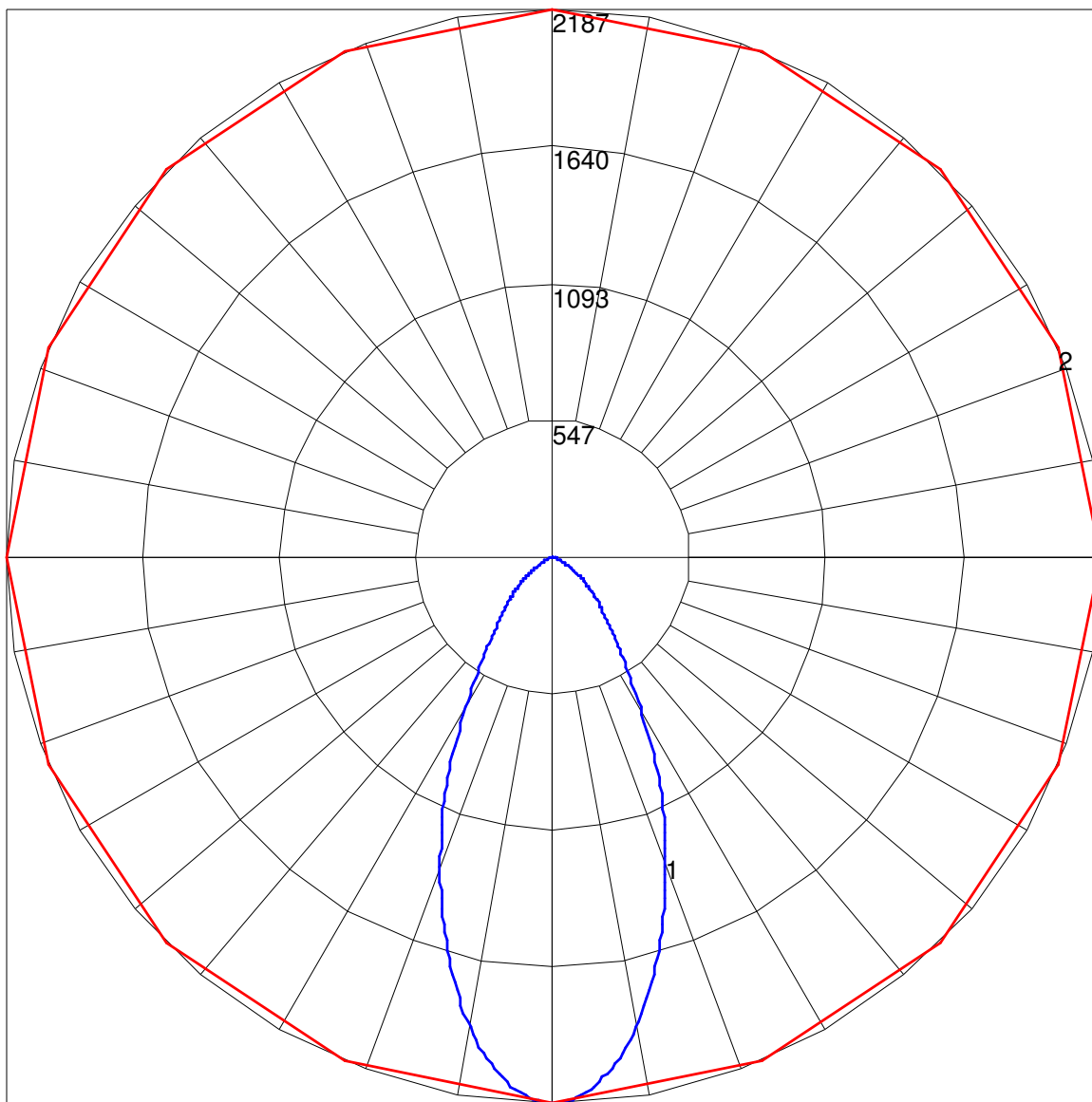
4H	2H	20.9	21.8	21.3	22.2	22.5	21.2	22.1	21.6	22.5	22.8
	3H	20.7	21.4	21.1	21.9	22.3	21.0	21.7	21.4	22.2	22.6
	4H	20.6	21.3	21.0	21.7	22.1	20.9	21.6	21.3	22.0	22.4
	6H	20.5	21.1	21.0	21.5	22.0	20.8	21.4	21.3	21.8	22.3
	8H	20.5	21.0	20.9	21.4	21.9	20.8	21.3	21.2	21.7	22.2
	12H	20.4	20.8	20.9	21.3	21.8	20.7	21.1	21.2	21.6	22.1

8H	4H	20.5	21.0	20.9	21.4	21.9	20.8	21.3	21.2	21.7	22.2
	6H	20.3	20.7	20.8	21.2	21.7	20.6	21.0	21.1	21.5	22.0
	8H	20.3	20.6	20.8	21.1	21.6	20.6	20.9	21.1	21.4	21.9
	12H	20.2	20.5	20.7	21.0	21.6	20.5	20.8	21.0	21.3	21.9

12H	4H	20.4	20.8	20.9	21.3	21.8	20.7	21.1	21.2	21.6	22.1
	6H	20.3	20.6	20.8	21.1	21.6	20.6	20.9	21.1	21.4	21.9
	8H	20.2	20.5	20.7	21.0	21.6	20.5	20.8	21.0	21.3	21.9

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 2186.828 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)