



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L20-835-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-L20-835-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	1523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	25.6
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	68721	69090	71998
55	30212	38121	31578
65	1313	6100	1313
75	630	630	630
85	374	374	374

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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	1918.192	1918.192	1918.192	1918.192	1918.192
0.5	1930.008	1920.818	1915.566	1912.940	1912.940
1.0	1928.696	1919.505	1914.253	1911.627	1910.315
1.5	1926.070	1916.879	1911.627	1909.002	1907.689
2.0	1922.131	1912.940	1907.689	1905.063	1905.063
2.5	1916.879	1907.689	1902.437	1901.124	1898.498
3.0	1910.315	1902.437	1895.872	1894.559	1893.246
3.5	1902.437	1894.559	1889.308	1886.682	1885.369
4.0	1893.246	1885.369	1881.430	1878.804	1877.491
4.5	1884.056	1876.178	1870.927	1869.614	1868.301
5.0	1873.552	1865.675	1860.423	1859.110	1857.797
5.5	1861.736	1853.858	1849.920	1847.294	1847.294
6.0	1849.920	1840.729	1836.790	1835.477	1834.165
6.5	1836.790	1828.913	1824.974	1822.348	1822.348
7.0	1822.348	1814.471	1810.532	1809.219	1809.219
7.5	1807.906	1800.028	1796.090	1796.090	1794.777
8.0	1793.464	1785.586	1781.647	1780.334	1779.021
8.5	1776.396	1768.518	1765.892	1764.579	1763.266
9.0	1759.327	1751.450	1748.824	1748.824	1747.511
9.5	1742.259	1734.382	1733.069	1731.756	1730.443
10.0	1723.878	1716.001	1714.688	1713.375	1712.062
10.5	1702.871	1697.620	1694.994	1693.681	1692.368
11.0	1683.177	1677.926	1675.300	1675.300	1672.674
11.5	1662.171	1656.919	1655.606	1654.293	1651.667
12.0	1639.851	1635.912	1634.599	1633.286	1631.973
12.5	1617.531	1613.592	1612.279	1610.966	1609.653
13.0	1593.898	1589.959	1591.272	1588.646	1586.021
13.5	1568.952	1566.327	1567.640	1565.014	1562.388
14.0	1545.320	1541.381	1544.007	1541.381	1537.442
14.5	1519.061	1516.435	1519.061	1516.435	1512.496
15.0	1492.802	1491.490	1492.802	1490.177	1487.551
15.5	1466.544	1465.231	1467.857	1463.918	1461.292
16.0	1438.972	1437.659	1441.598	1437.659	1435.034
16.5	1412.714	1411.401	1414.027	1411.401	1407.462
17.0	1383.829	1383.829	1386.455	1383.829	1379.890
17.5	1357.571	1356.258	1358.884	1357.571	1353.632
18.0	1328.686	1328.686	1331.312	1328.686	1324.747
18.5	1300.196	1300.721	1302.296	1301.115	1297.307
19.0	1272.230	1271.705	1273.412	1273.018	1269.079
19.5	1242.952	1243.739	1245.446	1244.396	1240.326
20.0	1214.199	1214.855	1216.168	1215.774	1211.048
20.5	1185.577	1186.102	1186.890	1187.021	1182.426
21.0	1154.985	1157.349	1158.399	1158.268	1153.672
21.5	1126.757	1128.333	1129.121	1129.252	1124.000
22.0	1098.135	1100.367	1100.236	1099.711	1094.591
22.5	1069.382	1071.089	1071.352	1071.483	1065.706
23.0	1040.104	1042.861	1042.861	1042.467	1037.084
23.5	1013.714	1014.108	1015.552	1015.027	1010.563
24.0	986.142	988.900	990.606	987.981	981.285
24.5	959.884	962.641	964.216	961.459	954.895
25.0	931.131	934.150	936.514	933.625	926.010
25.5	902.509	906.054	909.467	905.266	897.257
26.0	873.756	878.088	882.421	877.432	869.292
26.5	844.608	850.123	855.506	849.204	840.145

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CS-L20-835-XXX-DIM-UNV-OW-CS_.IES****CANDELA TABULATION - (Cont.)**

27.0	815.461	822.551	828.722	821.501	811.523
27.5	786.446	795.111	802.463	794.061	783.295
28.0	757.430	767.802	776.073	766.489	755.198
28.5	728.808	740.624	750.471	739.180	727.232
29.0	700.974	713.709	725.000	712.002	699.792
29.5	673.271	687.319	699.530	685.744	672.746
30.0	646.225	660.667	674.715	659.091	646.618
30.5	619.835	634.540	650.032	632.964	620.622
31.0	594.101	608.675	625.612	607.493	595.152
31.5	569.418	583.467	601.585	582.416	570.862
32.0	545.654	558.915	578.346	558.390	547.098
32.5	522.940	535.282	555.764	535.282	524.778
33.0	500.621	512.174	533.575	512.700	502.984
33.5	479.614	490.117	511.780	490.905	481.977
34.0	459.526	468.716	490.774	470.161	462.152
34.5	440.357	448.103	470.161	450.073	443.377
35.0	422.239	428.672	450.598	431.167	425.915
35.5	404.908	410.160	431.429	413.179	409.109
36.0	388.365	392.566	413.179	395.980	393.092
36.5	372.610	375.630	395.192	379.700	378.124
37.0	357.774	359.743	377.993	364.076	363.813
37.5	343.463	344.513	361.450	349.240	350.290
38.0	329.940	330.071	345.432	335.191	337.423
38.5	317.073	316.548	330.333	322.193	325.213
39.0	304.994	303.681	316.022	309.589	313.659
39.5	293.309	291.471	302.237	297.773	302.631
40.0	282.280	280.048	289.370	286.482	291.865
40.5	271.777	269.020	277.160	275.715	281.624
41.0	261.930	258.516	265.606	265.606	271.777
41.5	252.477	248.669	255.102	256.153	262.586
42.0	243.417	239.347	245.124	247.094	253.658
42.5	234.621	230.551	235.802	238.428	244.730
43.0	226.349	222.148	227.006	230.157	236.328
43.5	218.209	214.008	218.603	222.148	228.187
44.0	210.332	206.393	210.857	214.402	220.179
44.5	202.717	198.909	203.373	207.049	212.432
45.0	195.495	191.819	196.546	199.959	204.817
45.5	188.143	184.861	189.850	193.132	197.071
46.0	181.053	178.165	183.416	186.305	189.587
46.5	173.963	171.600	177.246	179.609	182.366
47.0	167.136	165.167	171.206	173.044	175.145
47.5	160.309	158.996	165.429	166.742	167.793
48.0	153.482	152.956	159.915	160.440	160.571
48.5	146.917	146.917	154.269	154.401	153.744
49.0	140.484	141.140	148.886	148.492	146.786
49.5	133.919	135.363	143.503	142.453	139.827
50.0	127.486	129.849	138.383	136.676	133.262
50.5	121.184	124.335	133.131	130.899	126.567
51.0	115.144	118.952	128.011	125.385	120.264
51.5	108.973	113.569	123.153	119.739	113.831
52.0	102.934	108.186	118.032	114.225	107.660
52.5	97.157	103.065	112.912	108.842	101.490
53.0	91.380	97.813	107.923	103.459	95.450
53.5	85.734	92.693	102.934	98.207	89.542
54.0	80.220	87.704	97.945	92.956	83.765
54.5	74.968	82.715	92.956	87.704	78.251

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CS-L20-835-XXX-DIM-UNV-OW-CS_.IES****CANDELA TABULATION - (Cont.)**

55.0	69.717	77.857	87.966	82.583	72.868
55.5	64.727	72.999	82.977	77.332	67.485
56.0	59.870	68.272	78.119	72.342	62.364
56.5	55.143	63.546	73.262	67.485	57.375
57.0	50.679	58.951	68.404	62.627	52.517
57.5	46.346	54.618	63.677	57.900	47.922
58.0	42.276	50.285	59.082	53.305	43.589
58.5	38.338	46.084	54.355	48.841	39.257
59.0	34.661	42.014	50.023	44.377	35.055
59.5	30.985	38.075	45.690	40.176	31.116
60.0	27.440	34.399	41.489	36.237	27.178
60.5	23.764	30.854	37.419	32.298	23.370
61.0	20.482	27.440	33.742	28.491	19.694
61.5	17.199	24.027	29.935	24.946	16.412
62.0	14.311	20.876	26.390	21.269	13.523
62.5	11.816	17.725	23.108	17.856	10.766
63.0	9.191	14.705	20.088	14.705	7.484
63.5	5.514	11.948	17.331	11.816	4.858
64.0	2.888	9.584	14.705	9.322	3.020
64.5	2.363	7.484	12.473	7.090	2.495
65.0	2.232	5.252	10.372	4.595	2.232
65.5	2.101	2.888	8.534	3.020	2.101
66.0	1.969	1.969	6.959	2.101	1.969
66.5	1.838	1.838	5.646	1.838	1.969
67.0	1.707	1.707	4.464	1.707	1.838
67.5	1.707	1.576	3.545	1.576	1.707
68.0	1.576	1.444	2.888	1.576	1.576
68.5	1.444	1.444	2.363	1.444	1.576
69.0	1.444	1.313	1.838	1.313	1.444
69.5	1.313	1.182	1.576	1.313	1.313
70.0	1.182	1.182	1.313	1.182	1.313
70.5	1.182	1.050	1.182	1.182	1.182
71.0	1.050	1.050	1.050	1.050	1.182
71.5	1.050	0.919	0.919	1.050	1.050
72.0	0.919	0.919	0.919	0.919	1.050
72.5	0.919	0.919	0.919	0.919	0.919
73.0	0.919	0.788	0.788	0.788	0.919
73.5	0.788	0.788	0.788	0.788	0.788
74.0	0.788	0.788	0.656	0.788	0.788
74.5	0.656	0.656	0.656	0.656	0.788
75.0	0.656	0.656	0.656	0.656	0.656
75.5	0.656	0.525	0.656	0.656	0.656
76.0	0.656	0.525	0.525	0.525	0.656
76.5	0.525	0.525	0.525	0.525	0.525
77.0	0.525	0.525	0.525	0.525	0.525
77.5	0.525	0.525	0.525	0.525	0.525
78.0	0.525	0.394	0.394	0.394	0.525
78.5	0.394	0.394	0.394	0.394	0.394
79.0	0.394	0.394	0.394	0.394	0.394
79.5	0.394	0.394	0.394	0.394	0.394
80.0	0.394	0.394	0.394	0.394	0.394
80.5	0.263	0.263	0.263	0.263	0.394
81.0	0.263	0.263	0.263	0.263	0.263
81.5	0.263	0.263	0.263	0.263	0.263
82.0	0.263	0.263	0.263	0.263	0.263
82.5	0.263	0.263	0.263	0.263	0.263

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CANDELA TABULATION - (Cont.)

83.0	0.263	0.263	0.263	0.263	0.263
83.5	0.263	0.263	0.263	0.263	0.263
84.0	0.131	0.131	0.131	0.131	0.263
84.5	0.131	0.131	0.131	0.131	0.131
85.0	0.131	0.131	0.131	0.131	0.131
85.5	0.131	0.131	0.131	0.131	0.131
86.0	0.131	0.131	0.131	0.131	0.131
86.5	0.131	0.131	0.131	0.131	0.131
87.0	0.131	0.131	0.131	0.131	0.131
87.5	0.131	0.131	0.131	0.131	0.131
88.0	0.131	0.131	0.131	0.131	0.131
88.5	0.131	0.131	0.131	0.131	0.131
89.0	0.131	0.000	0.000	0.000	0.131
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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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

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PHOTOMETRIC FILENAME : 4CS-L20-835-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-L20-835-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-L20-835-XXX-DIM-UNV-OW-CS_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	585.53	N.A.	38.50
0-30	1009.61	N.A.	66.30
0-40	1285.64	N.A.	84.40
0-60	1511.78	N.A.	99.30
0-80	1522.61	N.A.	100.00
0-90	1522.8	N.A.	100.00
10-90	1349.73	N.A.	88.60
20-40	700.11	N.A.	46.00
20-50	854.20	N.A.	56.10
40-70	236.24	N.A.	15.50
60-80	10.83	N.A.	0.70
70-80	0.73	N.A.	0.00
80-90	0.19	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	1522.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.07
10-20	412.46
20-30	424.08
30-40	276.02
40-50	154.09
50-60	72.06
60-70	10.09
70-80	0.73
80-90	0.19
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-L20-835-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-L20-835-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

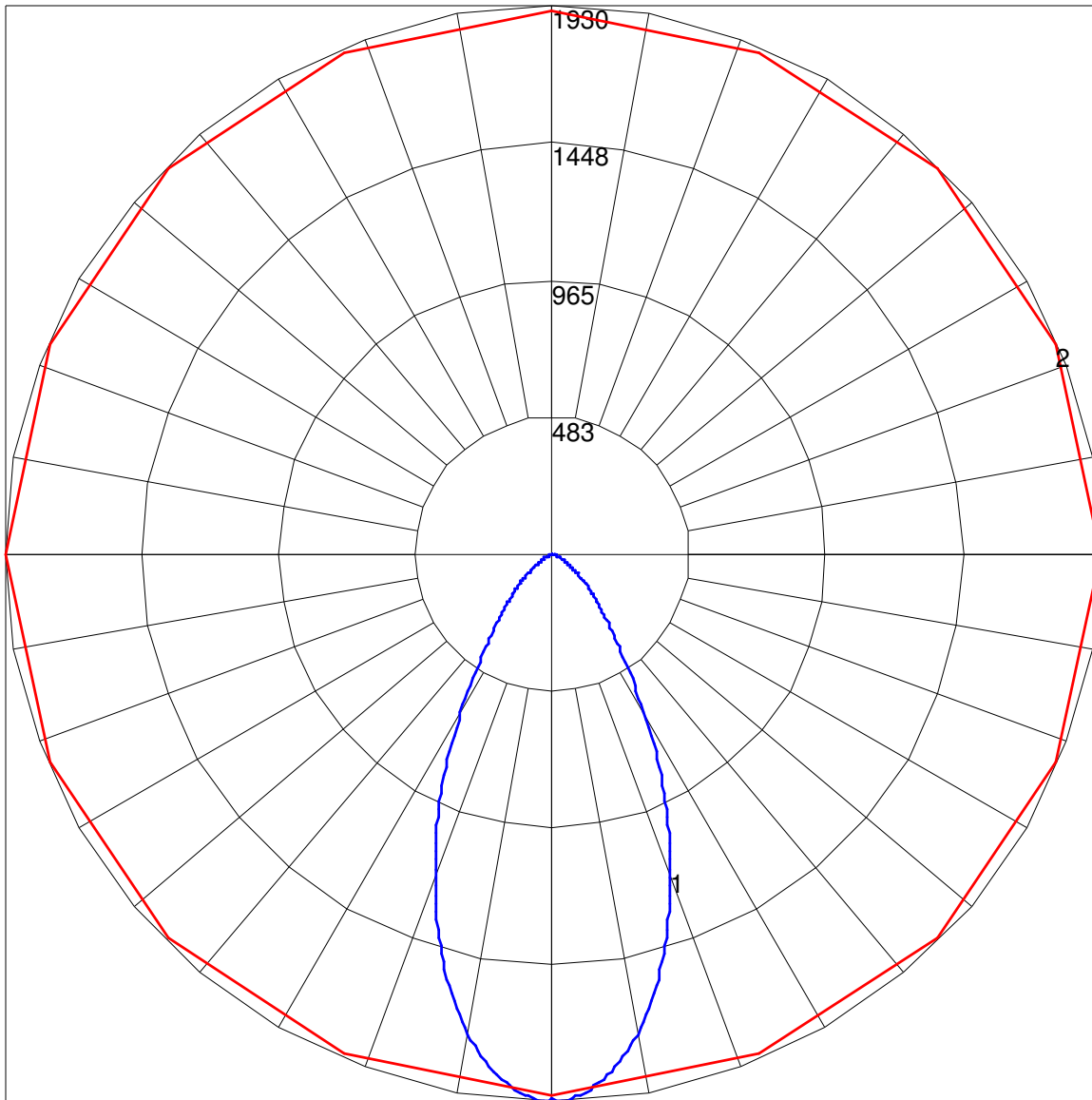
X=2H	Y=2H	18.4	19.5	18.8	19.8	20.1	18.8	19.9	19.2	20.2	20.5
	3H	18.3	19.2	18.6	19.5	19.9	18.6	19.6	19.0	19.9	20.3
	4H	18.1	19.0	18.6	19.4	19.8	18.5	19.4	18.9	19.8	20.2
	6H	18.1	18.9	18.5	19.2	19.6	18.4	19.2	18.9	19.6	20.0
	8H	18.0	18.8	18.4	19.2	19.6	18.4	19.1	18.8	19.5	19.9
	12H	18.0	18.7	18.4	19.1	19.5	18.3	19.1	18.8	19.4	19.9

UGR Viewed Endwise

4H	2H	18.2	19.1	18.6	19.5	19.9	18.6	19.5	19.0	19.8	20.2
	3H	18.1	18.8	18.5	19.2	19.6	18.4	19.1	18.8	19.5	20.0
	4H	17.9	18.6	18.4	19.0	19.4	18.3	18.9	18.8	19.4	19.8
	6H	17.8	18.4	18.3	18.8	19.3	18.2	18.8	18.7	19.2	19.7
	8H	17.8	18.3	18.3	18.7	19.2	18.1	18.6	18.6	19.1	19.6
	12H	17.7	18.2	18.2	18.6	19.1	18.1	18.5	18.6	19.0	19.5
8H	4H	17.8	18.3	18.2	18.7	19.2	18.1	18.6	18.6	19.1	19.6
	6H	17.7	18.1	18.2	18.6	19.0	18.0	18.4	18.5	18.9	19.4
	8H	17.6	17.9	18.1	18.5	19.0	17.9	18.3	18.5	18.8	19.3
	12H	17.5	17.8	18.0	18.3	18.9	17.9	18.2	18.4	18.7	19.3
12H	4H	17.7	18.2	18.2	18.6	19.1	18.1	18.5	18.6	19.0	19.5
	6H	17.6	17.9	18.1	18.4	19.0	18.0	18.3	18.5	18.8	19.3
	8H	17.5	17.8	18.0	18.3	18.9	17.9	18.2	18.4	18.7	19.3

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 1930.008 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.)