



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L20-835-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-L20-835-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	1443
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	25.6
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	73064	65817	76618
55	39375	38294	41025
65	1236	9035	1313
75	631	631	631
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	1819.835	1819.835	1819.835	1819.835	1819.835
0.5	1819.835	1819.835	1817.209	1818.522	1819.835
1.0	1818.522	1818.522	1815.896	1815.896	1818.522
1.5	1814.583	1815.896	1811.957	1813.270	1814.583
2.0	1810.644	1810.644	1808.018	1808.018	1810.644
2.5	1805.392	1805.392	1801.452	1802.765	1804.078
3.0	1797.513	1797.513	1794.887	1796.200	1796.200
3.5	1788.322	1789.635	1785.696	1787.009	1788.322
4.0	1779.131	1779.131	1776.505	1777.818	1777.818
4.5	1768.627	1768.627	1766.001	1766.001	1767.314
5.0	1755.497	1756.810	1754.184	1754.184	1755.497
5.5	1743.680	1743.680	1741.054	1742.367	1742.367
6.0	1729.237	1730.550	1726.611	1727.924	1729.237
6.5	1716.107	1716.107	1712.168	1713.481	1714.794
7.0	1700.351	1700.351	1697.725	1699.038	1699.038
7.5	1684.594	1684.594	1681.968	1681.968	1683.281
8.0	1667.525	1667.525	1664.899	1666.212	1666.212
8.5	1650.456	1650.456	1647.830	1649.143	1647.830
9.0	1632.074	1632.074	1630.761	1630.761	1630.761
9.5	1612.379	1613.692	1612.379	1612.379	1612.379
10.0	1592.684	1593.997	1592.684	1592.684	1591.371
10.5	1572.988	1572.988	1572.988	1572.988	1571.675
11.0	1549.354	1551.980	1554.606	1551.980	1549.354
11.5	1528.346	1530.972	1533.598	1529.659	1527.033
12.0	1504.712	1507.338	1512.590	1507.338	1503.399
12.5	1481.078	1485.017	1490.269	1483.704	1479.765
13.0	1457.443	1461.382	1467.947	1461.382	1456.130
13.5	1432.496	1437.748	1445.626	1437.748	1432.496
14.0	1407.549	1412.801	1421.992	1414.114	1407.549
14.5	1381.289	1389.167	1398.358	1389.167	1382.602
15.0	1357.654	1364.219	1373.411	1364.219	1356.341
15.5	1330.081	1339.272	1348.463	1337.959	1331.394
16.0	1305.528	1313.012	1322.203	1312.881	1305.003
16.5	1279.268	1288.327	1297.387	1287.802	1279.530
17.0	1253.401	1262.855	1271.127	1262.067	1253.926
17.5	1227.404	1237.120	1244.735	1236.201	1227.535
18.0	1201.143	1211.516	1217.950	1210.334	1200.618
18.5	1175.540	1185.781	1192.215	1184.599	1173.701
19.0	1149.936	1159.390	1165.561	1158.208	1147.704
19.5	1123.544	1133.392	1138.644	1132.735	1121.050
20.0	1096.890	1107.263	1112.778	1106.213	1094.658
20.5	1070.761	1081.134	1085.992	1080.215	1067.873
21.0	1043.845	1055.530	1059.601	1053.823	1042.138
21.5	1017.847	1029.401	1033.603	1028.876	1017.190
22.0	994.081	1005.373	1009.575	1003.798	991.061
22.5	970.185	980.295	983.446	977.669	964.670
23.0	945.631	956.661	959.287	952.065	940.642
23.5	919.896	930.926	933.814	928.299	915.301
24.0	894.161	905.322	908.079	902.433	889.040
24.5	868.295	879.981	882.344	876.829	862.780
25.0	842.035	854.640	857.266	851.226	836.520
25.5	815.774	829.167	832.450	825.753	810.260
26.0	789.120	804.220	808.028	800.675	783.999
26.5	762.072	779.010	783.606	775.334	757.345

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

27.0	734.893	753.800	759.577	750.386	731.216
27.5	707.976	728.722	736.206	725.177	705.481
28.0	681.322	703.774	712.966	700.229	680.009
28.5	655.324	679.090	690.119	675.545	654.930
29.0	629.852	654.536	667.929	651.517	630.640
29.5	605.561	630.377	646.133	627.751	607.399
30.0	582.058	606.349	624.600	604.511	584.684
30.5	559.212	582.977	602.935	581.664	562.626
31.0	537.416	560.131	581.796	559.343	541.355
31.5	516.539	538.204	561.181	537.810	521.134
32.0	496.844	517.064	541.092	517.195	501.964
32.5	478.068	496.712	521.397	497.500	483.714
33.0	460.079	477.149	501.964	478.462	466.251
33.5	443.010	458.372	482.926	460.211	449.444
34.0	426.729	440.516	464.412	442.748	433.688
34.5	411.367	423.446	446.293	426.204	418.588
35.0	397.055	407.165	428.830	410.316	404.539
35.5	383.268	391.803	411.761	395.479	391.015
36.0	370.138	376.966	395.085	381.167	378.279
36.5	357.533	362.785	378.935	367.381	366.199
37.0	345.585	349.392	363.179	354.251	354.645
37.5	334.162	336.394	347.686	341.777	343.353
38.0	323.132	324.051	332.849	329.697	332.586
38.5	312.628	312.366	318.668	318.274	322.607
39.0	302.518	301.074	305.144	307.376	312.759
39.5	292.670	290.307	292.014	296.872	303.306
40.0	283.479	279.934	279.540	286.893	294.115
40.5	274.420	269.955	267.723	277.177	285.318
41.0	265.885	260.502	256.431	267.854	276.914
41.5	257.613	251.573	245.927	259.057	268.642
42.0	249.735	243.039	236.211	250.654	260.764
42.5	242.119	234.898	226.757	242.513	253.149
43.0	234.767	227.020	217.960	234.635	245.665
43.5	227.676	219.404	209.557	227.020	238.443
44.0	220.849	212.183	201.679	219.667	231.484
44.5	214.284	205.224	194.326	212.708	224.656
45.0	207.850	198.527	187.236	205.880	217.960
45.5	201.416	191.962	180.670	199.315	211.395
46.0	195.114	185.660	174.368	193.013	204.830
46.5	188.942	179.489	168.197	186.710	198.396
47.0	182.903	173.318	162.420	180.408	191.962
47.5	176.994	167.409	156.774	174.499	185.529
48.0	171.085	161.763	151.390	168.591	179.226
48.5	165.177	155.986	146.401	162.813	172.924
49.0	159.268	150.471	141.280	157.299	166.621
49.5	153.622	145.088	136.291	151.784	160.450
50.0	147.714	139.704	131.433	146.138	154.148
50.5	142.068	134.584	126.837	140.886	148.108
51.0	136.422	129.463	122.241	135.634	142.068
51.5	130.645	124.605	117.908	130.513	135.897
52.0	124.867	119.747	113.576	125.524	129.726
52.5	118.959	114.757	109.243	120.535	123.817
53.0	113.182	110.030	104.910	115.676	117.777
53.5	107.536	105.435	100.708	110.818	112.000
54.0	101.890	101.102	96.506	106.091	106.091
54.5	96.375	96.506	92.305	101.365	100.314

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55.0	90.860	92.042	88.366	96.638	94.668
55.5	85.346	87.578	84.295	92.042	89.022
56.0	80.225	83.114	80.094	87.315	83.639
56.5	74.973	78.781	76.155	82.720	78.124
57.0	69.852	74.579	72.216	78.124	72.741
57.5	64.863	70.246	68.277	73.529	67.358
58.0	59.873	65.913	64.338	69.064	62.105
58.5	54.884	61.712	60.399	64.469	56.591
59.0	49.894	57.379	56.591	59.873	50.945
59.5	44.905	53.177	52.783	55.278	45.430
60.0	39.522	48.844	49.107	50.682	39.784
60.5	34.007	44.511	45.430	45.955	34.532
61.0	28.492	40.178	41.754	41.097	29.411
61.5	23.240	35.583	38.209	36.108	24.422
62.0	18.645	30.856	34.664	31.118	18.776
62.5	14.706	25.998	31.250	26.392	13.655
63.0	11.029	21.402	27.836	21.796	10.767
63.5	5.383	17.069	24.553	17.463	8.535
64.0	2.626	12.999	21.402	12.999	6.565
64.5	2.363	9.322	18.251	9.322	3.545
65.0	2.101	6.565	15.362	7.090	2.232
65.5	1.970	4.333	12.736	5.252	2.101
66.0	1.838	2.626	10.241	3.545	1.970
66.5	1.707	1.707	8.141	2.101	1.838
67.0	1.707	1.576	6.302	1.707	1.707
67.5	1.576	1.444	4.858	1.576	1.707
68.0	1.444	1.444	3.676	1.444	1.576
68.5	1.444	1.313	2.757	1.313	1.444
69.0	1.313	1.182	2.232	1.313	1.313
69.5	1.182	1.182	1.707	1.182	1.313
70.0	1.182	1.050	1.444	1.182	1.182
70.5	1.050	1.050	1.182	1.050	1.182
71.0	1.050	0.919	1.050	1.050	1.050
71.5	0.919	0.919	0.919	0.919	1.050
72.0	0.919	0.919	0.919	0.919	0.919
72.5	0.788	0.788	0.788	0.788	0.919
73.0	0.788	0.788	0.788	0.788	0.788
73.5	0.788	0.657	0.788	0.788	0.788
74.0	0.657	0.657	0.657	0.657	0.788
74.5	0.657	0.657	0.657	0.657	0.657
75.0	0.657	0.657	0.657	0.657	0.657
75.5	0.657	0.525	0.525	0.525	0.657
76.0	0.525	0.525	0.525	0.525	0.525
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	0.394	0.394	0.394	0.394	0.525
78.0	0.394	0.394	0.394	0.394	0.394
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	0.263	0.394	0.394	0.394
80.0	0.263	0.263	0.263	0.263	0.394
80.5	0.263	0.263	0.263	0.263	0.263
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

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

83.0	0.263	0.131	0.263	0.263	0.263
83.5	0.131	0.131	0.131	0.131	0.131
84.0	0.131	0.131	0.131	0.131	0.131
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	0.000	0.131	0.131
88.5	0.131	0.000	0.000	0.000	0.000
89.0	0.000	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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4CS-L20-835-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-L20-835-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-L20-835-XXX-DIM-UNV-OM-CS_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.10	N.A.	37.40
0-30	926.97	N.A.	64.20
0-40	1188.42	N.A.	82.40
0-60	1428.36	N.A.	99.00
0-80	1442.89	N.A.	100.00
0-90	1443.06	N.A.	100.00
10-90	1280.75	N.A.	88.80
20-40	648.32	N.A.	44.90
20-50	805.52	N.A.	55.80
40-70	253.78	N.A.	17.60
60-80	14.53	N.A.	1.00
70-80	0.69	N.A.	0.00
80-90	0.16	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	1443.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.30
10-20	377.80
20-30	386.87
30-40	261.45
40-50	157.20
50-60	82.74
60-70	13.84
70-80	0.69
80-90	0.16
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-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-L20-835-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

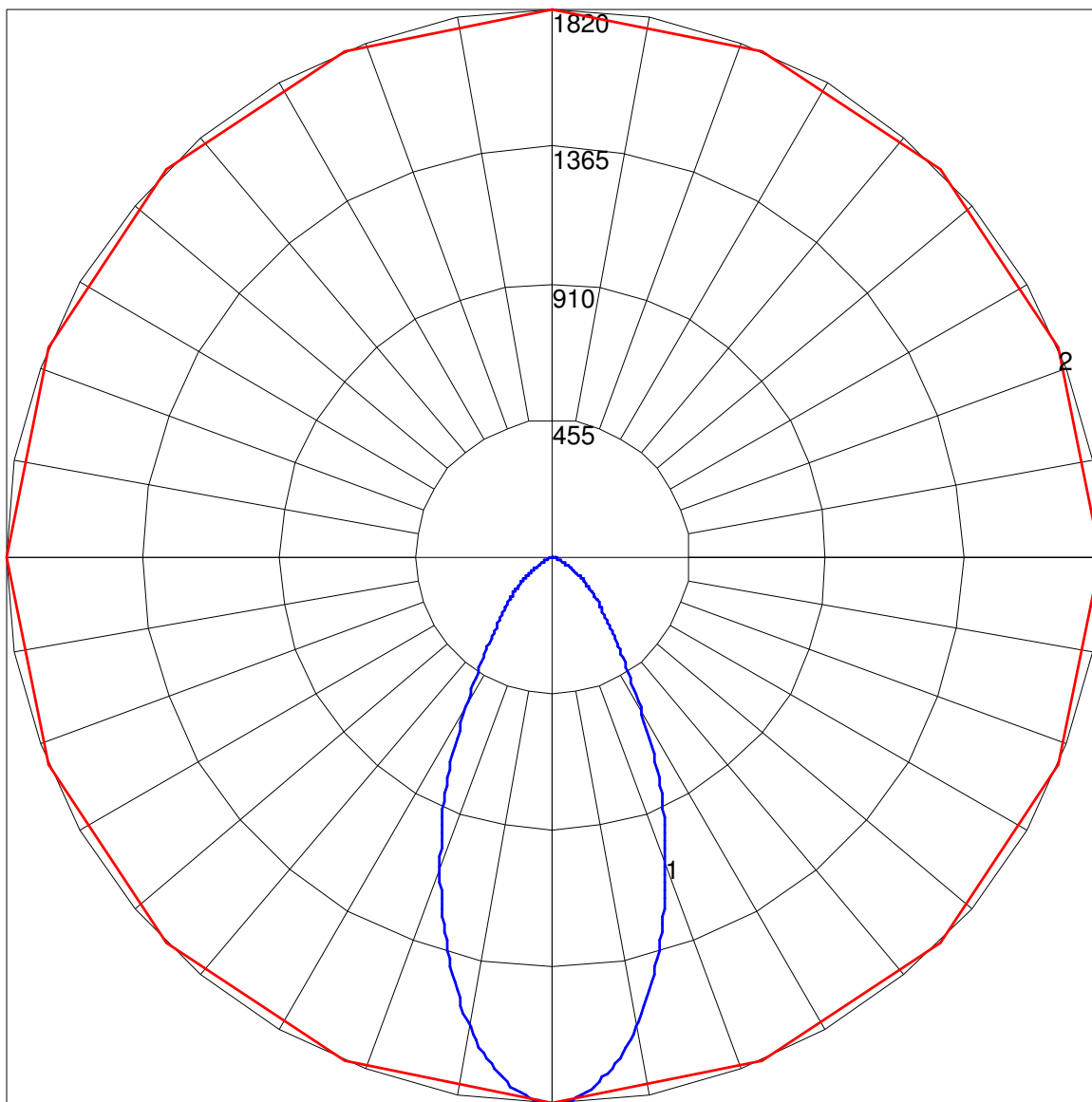
X=2H	Y=2H	20.5	21.6	20.8	21.9	22.2	20.8	21.9	21.1	22.2	22.5
	3H	20.3	21.3	20.7	21.6	22.0	20.6	21.6	21.0	21.9	22.3
	4H	20.2	21.1	20.6	21.5	21.8	20.5	21.4	20.9	21.8	22.2
	6H	20.1	20.9	20.5	21.3	21.7	20.4	21.2	20.8	21.6	22.0
	8H	20.0	20.8	20.5	21.2	21.6	20.4	21.1	20.8	21.5	21.9
	12H	20.0	20.7	20.4	21.1	21.6	20.3	21.1	20.7	21.4	21.9

UGR Viewed Endwise

4H	2H	20.3	21.2	20.7	21.6	21.9	20.6	21.5	21.0	21.9	22.2
	3H	20.1	20.9	20.5	21.3	21.7	20.4	21.2	20.8	21.6	22.0
	4H	20.0	20.7	20.4	21.1	21.5	20.3	21.0	20.7	21.4	21.8
	6H	19.9	20.5	20.4	20.9	21.4	20.2	20.8	20.7	21.2	21.7
	8H	19.9	20.4	20.3	20.8	21.3	20.2	20.7	20.6	21.1	21.6
	12H	19.8	20.2	20.3	20.7	21.2	20.1	20.5	20.6	21.0	21.5
8H	4H	19.9	20.4	20.3	20.8	21.3	20.2	20.7	20.6	21.1	21.6
	6H	19.7	20.1	20.2	20.6	21.1	20.0	20.4	20.5	20.9	21.4
	8H	19.7	20.0	20.2	20.5	21.0	20.0	20.3	20.5	20.8	21.3
	12H	19.6	19.9	20.1	20.4	21.0	19.9	20.2	20.4	20.7	21.3
12H	4H	19.8	20.2	20.3	20.7	21.2	20.1	20.5	20.6	21.0	21.5
	6H	19.7	20.0	20.2	20.5	21.1	20.0	20.3	20.5	20.8	21.4
	8H	19.6	19.9	20.1	20.4	21.0	19.9	20.2	20.4	20.7	21.3

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1819.835 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.)