



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CS-L15-835-XXX-DIM-UNV-LN-OF-WH-XX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 13257153.22
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 01/25/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4CS-L15-835-xxx-DIM-UNV-LN-OF-WH-xx
 [LUMINAIRE] Aluminum housing, optics, and trim enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Downlight
 [_SEARCH_MOUNTING] Pendant, Surface, Suspended, Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	17.3022
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.40
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	47034	53466	46295
55	34322	36315	33152
65	27878	27643	27761
75	21128	20072	20456
85	12549	10837	11693

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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	5640.0	5640.0	5640.0	5640.0	5640.0
0.5	5622.0	5623.0	5629.0	5640.0	5644.0
1.0	5598.0	5597.0	5605.0	5614.0	5616.0
1.5	5561.0	5557.0	5564.0	5572.0	5573.0
2.0	5505.0	5502.0	5508.0	5516.0	5517.0
2.5	5436.0	5432.0	5437.0	5446.0	5447.0
3.0	5355.0	5348.0	5355.0	5362.0	5362.0
3.5	5262.0	5252.0	5259.0	5266.0	5263.0
4.0	5155.0	5145.0	5151.0	5155.0	5152.0
4.5	5035.0	5024.0	5029.0	5030.0	5028.0
5.0	4903.0	4892.0	4894.0	4893.0	4889.0
5.5	4757.0	4749.0	4748.0	4743.0	4739.0
6.0	4602.0	4593.0	4591.0	4584.0	4580.0
6.5	4440.0	4431.0	4426.0	4415.0	4412.0
7.0	4268.0	4261.0	4254.0	4243.0	4241.0
7.5	4090.0	4085.0	4075.0	4066.0	4061.0
8.0	3908.0	3903.0	3893.0	3883.0	3878.0
8.5	3723.0	3719.0	3709.0	3696.0	3691.0
9.0	3536.0	3533.0	3522.0	3508.0	3501.0
9.5	3354.0	3347.0	3336.0	3320.0	3314.0
10.0	3171.0	3163.0	3151.0	3132.0	3128.0
10.5	2990.0	2980.0	2969.0	2949.0	2944.0
11.0	2813.0	2800.0	2788.0	2768.0	2763.0
11.5	2640.0	2626.0	2614.0	2592.0	2587.0
12.0	2474.0	2458.0	2447.0	2424.0	2416.0
12.5	2312.0	2298.0	2286.0	2261.0	2254.0
13.0	2163.0	2146.0	2134.0	2107.0	2098.0
13.5	2018.0	2001.0	1989.0	1962.0	1949.0
14.0	1878.0	1864.0	1852.0	1824.0	1811.0
14.5	1747.0	1735.0	1723.0	1694.0	1679.0
15.0	1623.0	1615.0	1604.0	1573.0	1555.0
15.5	1510.0	1504.0	1493.0	1463.0	1442.0
16.0	1406.0	1402.0	1393.0	1361.0	1340.0
16.5	1311.0	1309.0	1302.0	1268.0	1245.0
17.0	1223.0	1223.0	1219.0	1183.0	1161.0
17.5	1144.0	1146.0	1143.0	1107.0	1085.0
18.0	1072.0	1076.0	1075.0	1038.0	1016.0
18.5	1007.0	1013.0	1014.0	976.8	954.7
19.0	946.9	956.5	959.9	922.4	899.3
19.5	894.1	905.8	911.9	873.5	851.1
20.0	845.1	858.9	868.7	830.2	807.1
20.5	799.9	817.3	830.0	791.7	767.4
21.0	759.1	779.5	795.2	756.5	730.6
21.5	722.1	744.4	764.0	724.5	697.3
22.0	687.6	712.4	736.9	695.4	666.3
22.5	655.7	682.9	712.7	668.3	637.6
23.0	626.4	655.6	690.3	643.1	610.6
23.5	598.6	629.9	669.4	619.4	584.0
24.0	572.3	605.8	650.2	596.7	559.1
24.5	547.2	582.9	631.7	574.9	534.4
25.0	522.7	560.9	613.9	553.6	510.9
25.5	499.2	539.8	596.7	532.8	488.1
26.0	476.7	519.0	579.8	512.3	465.6
26.5	454.8	498.6	563.2	492.3	444.4

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CANDELA TABULATION - (Cont.)

27.0	433.6	478.8	546.6	472.7	424.1
27.5	413.7	459.5	530.0	453.2	404.8
28.0	395.1	440.4	513.3	434.2	386.6
28.5	378.0	422.1	496.7	415.8	369.6
29.0	362.5	404.4	480.3	398.0	354.1
29.5	348.3	387.6	463.5	381.1	339.8
30.0	335.1	371.6	446.8	365.0	326.4
30.5	323.0	356.6	430.0	349.8	314.1
31.0	311.6	342.7	413.3	335.6	302.9
31.5	301.0	329.5	397.1	322.7	292.6
32.0	291.0	317.5	381.3	310.5	283.3
32.5	281.8	306.4	365.8	299.3	274.5
33.0	272.9	295.8	350.6	289.0	266.5
33.5	264.7	286.1	335.8	279.7	259.1
34.0	256.9	277.0	321.7	271.0	252.1
34.5	249.4	268.4	308.4	262.9	245.6
35.0	242.4	260.3	296.0	255.3	239.6
35.5	235.7	252.6	284.3	248.2	233.8
36.0	229.4	245.3	273.2	241.5	228.1
36.5	223.3	238.3	262.9	235.1	222.5
37.0	217.5	231.6	253.4	229.0	216.9
37.5	211.8	225.1	244.5	223.1	211.3
38.0	206.1	218.9	236.0	217.4	205.7
38.5	200.6	212.9	228.1	211.8	200.1
39.0	195.0	207.1	220.7	206.4	194.3
39.5	189.4	201.4	213.5	201.0	188.8
40.0	183.8	195.9	206.7	195.5	183.1
40.5	178.3	190.4	200.2	190.1	177.5
41.0	172.7	185.1	193.9	184.7	171.9
41.5	167.3	179.8	188.0	179.5	166.5
42.0	162.1	174.6	182.3	174.3	161.0
42.5	157.0	169.5	176.8	169.1	155.8
43.0	151.9	164.5	171.5	164.0	150.6
43.5	147.2	159.5	166.4	158.9	145.6
44.0	142.6	154.7	161.4	154.0	140.8
44.5	138.1	150.1	156.7	149.2	136.2
45.0	133.8	145.6	152.1	144.6	131.7
45.5	129.7	141.2	147.7	140.0	127.3
46.0	125.7	137.0	143.3	135.7	123.1
46.5	121.9	132.9	139.0	131.4	119.1
47.0	118.2	128.9	134.8	127.3	115.2
47.5	114.8	125.0	130.8	123.2	111.5
48.0	111.6	121.4	126.9	119.4	108.1
48.5	108.5	117.8	123.1	115.8	104.9
49.0	105.5	114.3	119.3	112.2	101.8
49.5	102.6	111.1	115.7	108.8	98.9
50.0	99.9	108.0	112.2	105.5	96.2
50.5	97.4	105.0	108.9	102.5	93.7
51.0	95.0	102.2	105.6	99.6	91.5
51.5	92.7	99.4	102.5	96.9	89.2
52.0	90.5	96.8	99.5	94.3	87.1
52.5	88.4	94.4	96.6	91.8	85.0
53.0	86.4	92.0	93.8	89.5	83.1
53.5	84.5	89.7	91.1	87.2	81.3
54.0	82.7	87.5	88.6	85.1	79.6
54.5	80.9	85.5	86.1	83.1	78.0

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CANDELA TABULATION - (Cont.)

55.0	79.2	83.3	83.8	81.1	76.5
55.5	77.5	81.3	81.5	79.2	74.9
56.0	75.9	79.4	79.3	77.3	73.5
56.5	74.4	77.5	77.1	75.6	72.1
57.0	72.8	75.6	75.1	73.8	70.6
57.5	71.2	73.7	73.0	72.1	69.4
58.0	69.6	72.0	71.1	70.5	67.9
58.5	68.0	70.1	69.1	68.8	66.5
59.0	66.4	68.5	67.2	67.2	65.0
59.5	64.8	66.7	65.4	65.6	63.5
60.0	63.3	64.9	63.6	64.0	62.1
60.5	61.6	63.3	61.8	62.5	60.7
61.0	59.9	61.6	60.1	60.9	59.2
61.5	58.2	59.8	58.4	59.4	57.9
62.0	56.6	58.1	56.7	57.8	56.3
62.5	55.0	56.5	55.0	56.3	54.8
63.0	53.3	54.8	53.4	54.7	53.3
63.5	51.9	53.2	51.8	53.2	51.7
64.0	50.3	51.6	50.2	51.6	50.2
64.5	48.9	50.0	48.6	50.0	48.7
65.0	47.4	48.4	47.0	48.5	47.2
65.5	46.0	46.9	45.5	46.9	45.7
66.0	44.6	45.4	44.0	45.3	44.2
66.5	43.2	43.9	42.5	43.8	42.8
67.0	41.8	42.5	41.1	42.3	41.4
67.5	40.5	41.0	39.6	40.8	40.0
68.0	39.2	39.6	38.2	39.3	38.6
68.5	37.8	38.2	36.9	37.9	37.3
69.0	36.5	36.8	35.5	36.5	36.0
69.5	35.2	35.4	34.2	35.1	34.7
70.0	33.8	34.1	32.9	33.8	33.3
70.5	32.5	32.7	31.6	32.5	32.1
71.0	31.3	31.4	30.3	31.1	30.7
71.5	30.1	30.1	29.1	29.8	29.5
72.0	28.8	28.9	27.8	28.6	28.2
72.5	27.7	27.6	26.7	27.4	27.0
73.0	26.5	26.4	25.4	26.2	25.8
73.5	25.3	25.2	24.3	25.0	24.7
74.0	24.2	24.0	23.2	23.8	23.5
74.5	23.1	22.9	22.0	22.7	22.4
75.0	22.0	21.7	20.9	21.5	21.3
75.5	20.9	20.7	19.9	20.5	20.2
76.0	19.8	19.6	18.8	19.4	19.1
76.5	18.8	18.5	17.8	18.3	18.2
77.0	17.8	17.5	16.8	17.3	17.1
77.5	16.8	16.5	15.8	16.2	16.1
78.0	15.8	15.5	14.8	15.3	15.1
78.5	14.8	14.5	13.9	14.3	14.2
79.0	13.9	13.6	13.0	13.3	13.3
79.5	13.0	12.6	12.1	12.4	12.4
80.0	12.1	11.8	11.3	11.6	11.6
80.5	11.2	10.9	10.4	10.7	10.7
81.0	10.4	10.1	9.6	9.8	9.9
81.5	9.5	9.2	8.7	9.0	9.1
82.0	8.7	8.4	8.0	8.2	8.3
82.5	8.0	7.6	7.2	7.5	7.6

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CANDELA TABULATION - (Cont.)

83.0	7.2	6.8	6.5	6.7	6.9
83.5	6.5	6.1	5.8	6.0	6.2
84.0	5.7	5.4	5.1	5.3	5.4
84.5	5.0	4.6	4.4	4.6	4.8
85.0	4.4	4.0	3.8	4.0	4.1
85.5	3.7	3.3	3.2	3.3	3.3
86.0	3.0	2.6	2.6	2.6	2.7
86.5	2.2	2.0	2.1	2.2	2.3
87.0	1.1	1.5	1.6	1.8	2.0
87.5	0.7	1.1	1.3	1.5	1.6
88.0	0.6	0.7	0.9	1.1	1.1
88.5	0.4	0.5	0.6	0.7	0.7
89.0	0.4	0.3	0.4	0.5	0.5
89.5	0.2	0.3	0.3	0.4	0.4
90.0	0.0	0.0	0.0	0.0	0.0
90.5	0.0	0.0	0.0	0.0	0.0
91.0	0.0	0.0	0.0	0.0	0.0
91.5	0.0	0.0	0.0	0.0	0.0
92.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0
93.0	0.0	0.0	0.0	0.0	0.0
93.5	0.0	0.0	0.0	0.0	0.0
94.0	0.0	0.0	0.0	0.0	0.0
94.5	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0
95.5	0.0	0.0	0.0	0.0	0.0
96.0	0.0	0.0	0.0	0.0	0.0
96.5	0.0	0.0	0.0	0.0	0.0
97.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0
98.0	0.0	0.0	0.0	0.0	0.0
98.5	0.0	0.0	0.0	0.0	0.0
99.0	0.0	0.0	0.0	0.0	0.0
99.5	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0
100.5	0.0	0.0	0.0	0.0	0.0
101.0	0.0	0.0	0.0	0.0	0.0
101.5	0.0	0.0	0.0	0.0	0.0
102.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0
103.0	0.0	0.0	0.0	0.0	0.0
103.5	0.0	0.0	0.0	0.0	0.0
104.0	0.0	0.0	0.0	0.0	0.0
104.5	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0
105.5	0.0	0.0	0.0	0.0	0.0
106.0	0.0	0.0	0.0	0.0	0.0
106.5	0.0	0.0	0.0	0.0	0.0
107.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0
108.0	0.0	0.0	0.0	0.0	0.0
108.5	0.0	0.0	0.0	0.0	0.0
109.0	0.0	0.0	0.0	0.0	0.0
109.5	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0
110.5	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

111.0	0.0	0.0	0.0	0.0	0.0
111.5	0.0	0.0	0.0	0.0	0.0
112.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0
113.0	0.0	0.0	0.0	0.0	0.0
113.5	0.0	0.0	0.0	0.0	0.0
114.0	0.0	0.0	0.0	0.0	0.0
114.5	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0
115.5	0.0	0.0	0.0	0.0	0.0
116.0	0.0	0.0	0.0	0.0	0.0
116.5	0.0	0.0	0.0	0.0	0.0
117.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0
118.0	0.0	0.0	0.0	0.0	0.0
118.5	0.0	0.0	0.0	0.0	0.0
119.0	0.0	0.0	0.0	0.0	0.0
119.5	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0
120.5	0.0	0.0	0.0	0.0	0.0
121.0	0.0	0.0	0.0	0.0	0.0
121.5	0.0	0.0	0.0	0.0	0.0
122.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0
123.0	0.0	0.0	0.0	0.0	0.0
123.5	0.0	0.0	0.0	0.0	0.0
124.0	0.0	0.0	0.0	0.0	0.0
124.5	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0
125.5	0.0	0.0	0.0	0.0	0.0
126.0	0.0	0.0	0.0	0.0	0.0
126.5	0.0	0.0	0.0	0.0	0.0
127.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0
128.0	0.0	0.0	0.0	0.0	0.0
128.5	0.0	0.0	0.0	0.0	0.0
129.0	0.0	0.0	0.0	0.0	0.0
129.5	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0
130.5	0.0	0.0	0.0	0.0	0.0
131.0	0.0	0.0	0.0	0.0	0.0
131.5	0.0	0.0	0.0	0.0	0.0
132.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0
133.0	0.0	0.0	0.0	0.0	0.0
133.5	0.0	0.0	0.0	0.0	0.0
134.0	0.0	0.0	0.0	0.0	0.0
134.5	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0
135.5	0.0	0.0	0.0	0.0	0.0
136.0	0.0	0.0	0.0	0.0	0.0
136.5	0.0	0.0	0.0	0.0	0.0
137.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0
138.0	0.0	0.0	0.0	0.0	0.0
138.5	0.0	0.0	0.0	0.0	0.0

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CANDELA TABULATION - (Cont.)

139.0	0.0	0.0	0.0	0.0	0.0
139.5	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0
140.5	0.0	0.0	0.0	0.0	0.0
141.0	0.0	0.0	0.0	0.0	0.0
141.5	0.0	0.0	0.0	0.0	0.0
142.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0
143.0	0.0	0.0	0.0	0.0	0.0
143.5	0.0	0.0	0.0	0.0	0.0
144.0	0.0	0.0	0.0	0.0	0.0
144.5	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0
145.5	0.0	0.0	0.0	0.0	0.0
146.0	0.0	0.0	0.0	0.0	0.0
146.5	0.0	0.0	0.0	0.0	0.0
147.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0
148.0	0.0	0.0	0.0	0.0	0.0
148.5	0.0	0.0	0.0	0.0	0.0
149.0	0.0	0.0	0.0	0.0	0.0
149.5	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0
150.5	0.0	0.0	0.0	0.0	0.0
151.0	0.0	0.0	0.0	0.0	0.0
151.5	0.0	0.0	0.0	0.0	0.0
152.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0
153.0	0.0	0.0	0.0	0.0	0.0
153.5	0.0	0.0	0.0	0.0	0.0
154.0	0.0	0.0	0.0	0.0	0.0
154.5	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0
155.5	0.0	0.0	0.0	0.0	0.0
156.0	0.0	0.0	0.0	0.0	0.0
156.5	0.0	0.0	0.0	0.0	0.0
157.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0
158.0	0.0	0.0	0.0	0.0	0.0
158.5	0.0	0.0	0.0	0.0	0.0
159.0	0.0	0.0	0.0	0.0	0.0
159.5	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0
160.5	0.0	0.0	0.0	0.0	0.0
161.0	0.0	0.0	0.0	0.0	0.0
161.5	0.0	0.0	0.0	0.0	0.0
162.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0
163.0	0.0	0.0	0.0	0.0	0.0
163.5	0.0	0.0	0.0	0.0	0.0
164.0	0.0	0.0	0.0	0.0	0.0
164.5	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0
165.5	0.0	0.0	0.0	0.0	0.0
166.0	0.0	0.0	0.0	0.0	0.0
166.5	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0
168.0	0.0	0.0	0.0	0.0	0.0
168.5	0.0	0.0	0.0	0.0	0.0
169.0	0.0	0.0	0.0	0.0	0.0
169.5	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0
170.5	0.0	0.0	0.0	0.0	0.0
171.0	0.0	0.0	0.0	0.0	0.0
171.5	0.0	0.0	0.0	0.0	0.0
172.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0
173.0	0.0	0.0	0.0	0.0	0.0
173.5	0.0	0.0	0.0	0.0	0.0
174.0	0.0	0.0	0.0	0.0	0.0
174.5	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0
175.5	0.0	0.0	0.0	0.0	0.0
176.0	0.0	0.0	0.0	0.0	0.0
176.5	0.0	0.0	0.0	0.0	0.0
177.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0
178.0	0.0	0.0	0.0	0.0	0.0
178.5	0.0	0.0	0.0	0.0	0.0
179.0	0.0	0.0	0.0	0.0	0.0
179.5	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	865.80	N.A.	55.70
0-30	1125.88	N.A.	72.40
0-40	1293.92	N.A.	83.20
0-60	1479.79	N.A.	95.10
0-80	1550.37	N.A.	99.70
0-90	1555.33	N.A.	100.00
10-90	1146.32	N.A.	73.70
20-40	428.12	N.A.	27.50
20-50	540.25	N.A.	34.70
40-70	233.43	N.A.	15.00
60-80	70.57	N.A.	4.50
70-80	23.01	N.A.	1.50
80-90	4.97	N.A.	0.30
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	1555.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	409.02
10-20	456.78
20-30	260.08
30-40	168.04
40-50	112.12
50-60	73.75
60-70	47.56
70-80	23.01
80-90	4.97
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 : 4CS-L15-835-XXX-DIM-UNV-LN-OF-WH-XX.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	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69
7	86	77	72	68	85	77	72	68	76	71	67	74	70	67	73	70	67	65
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	71	67	64	63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58

IES INDOOR REPORT

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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

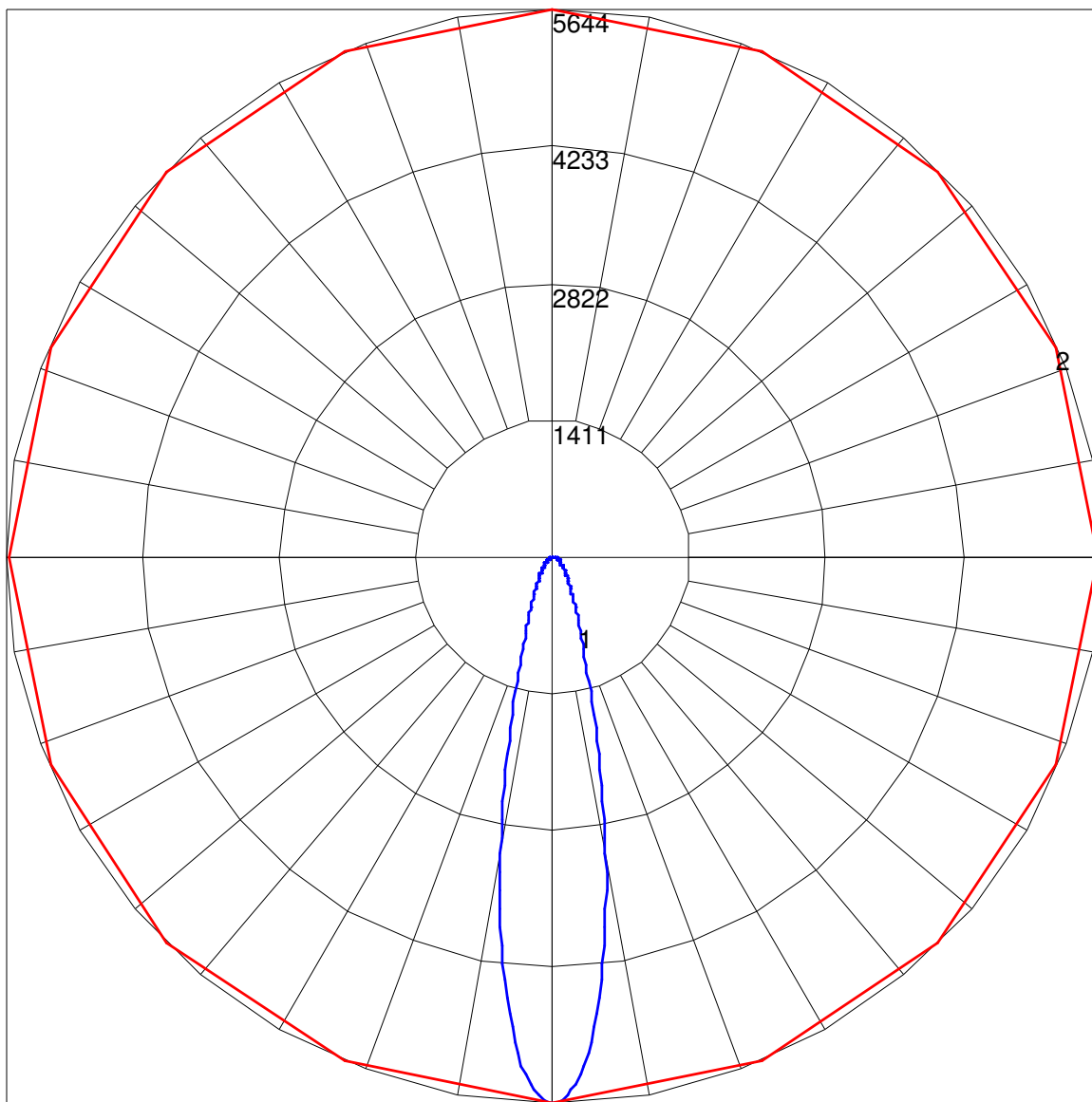
X=2H	Y=2H	20.7	21.8	21.0	22.1	22.4	20.5	21.6	20.9	22.0	22.3
	3H	22.0	23.0	22.3	23.3	23.7	21.8	22.8	22.2	23.2	23.5
	4H	22.4	23.3	22.8	23.6	24.0	22.2	23.2	22.6	23.5	23.9
	6H	22.6	23.5	23.1	23.8	24.2	22.5	23.3	22.9	23.7	24.1
	8H	22.7	23.5	23.1	23.9	24.3	22.5	23.3	23.0	23.7	24.1
	12H	22.7	23.5	23.1	23.8	24.3	22.6	23.3	23.0	23.7	24.1

UGR Viewed Endwise

4H	2H	21.0	22.0	21.4	22.3	22.7	20.9	21.8	21.3	22.2	22.6
	3H	22.5	23.3	22.9	23.7	24.1	22.4	23.2	22.8	23.6	24.0
	4H	23.0	23.7	23.5	24.1	24.6	22.9	23.6	23.4	24.0	24.5
	6H	23.4	24.0	23.9	24.4	24.9	23.3	23.8	23.7	24.3	24.8
	8H	23.5	24.0	23.9	24.5	24.9	23.3	23.9	23.8	24.3	24.8
	12H	23.5	24.0	24.0	24.5	24.9	23.4	23.8	23.9	24.3	24.8
8H	4H	23.2	23.7	23.6	24.1	24.6	23.1	23.6	23.5	24.0	24.5
	6H	23.6	24.0	24.1	24.5	25.0	23.5	23.9	24.0	24.4	24.9
	8H	23.7	24.1	24.3	24.6	25.1	23.6	24.0	24.1	24.5	25.0
	12H	23.8	24.1	24.3	24.6	25.2	23.7	24.0	24.2	24.5	25.1
12H	4H	23.1	23.6	23.6	24.1	24.6	23.0	23.5	23.5	24.0	24.5
	6H	23.6	24.0	24.1	24.4	25.0	23.5	23.9	24.0	24.3	24.9
	8H	23.7	24.1	24.3	24.6	25.1	23.6	24.0	24.2	24.5	25.0

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 5644 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.)