



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 13257153.19
 [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-LM-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	1607
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	17.3136
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.50
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	46577	52447	46787
55	33758	37009	34452
65	28408	28584	28408
75	21704	21224	22185
85	12834	11408	13689

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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	3966.0	3966.0	3966.0	3966.0	3966.0
0.5	3973.0	3957.0	3959.0	3967.0	3970.0
1.0	3965.0	3950.0	3951.0	3961.0	3963.0
1.5	3952.0	3937.0	3940.0	3950.0	3954.0
2.0	3936.0	3920.0	3925.0	3935.0	3939.0
2.5	3916.0	3901.0	3904.0	3915.0	3920.0
3.0	3892.0	3877.0	3881.0	3891.0	3896.0
3.5	3865.0	3850.0	3854.0	3864.0	3870.0
4.0	3833.0	3818.0	3823.0	3833.0	3838.0
4.5	3797.0	3784.0	3790.0	3799.0	3803.0
5.0	3758.0	3746.0	3753.0	3761.0	3765.0
5.5	3717.0	3704.0	3712.0	3721.0	3724.0
6.0	3675.0	3662.0	3669.0	3677.0	3680.0
6.5	3630.0	3617.0	3624.0	3629.0	3633.0
7.0	3583.0	3570.0	3576.0	3580.0	3582.0
7.5	3534.0	3521.0	3526.0	3528.0	3527.0
8.0	3480.0	3467.0	3471.0	3471.0	3469.0
8.5	3419.0	3407.0	3412.0	3409.0	3405.0
9.0	3354.0	3343.0	3348.0	3342.0	3335.0
9.5	3282.0	3271.0	3279.0	3270.0	3259.0
10.0	3201.0	3194.0	3203.0	3191.0	3176.0
10.5	3111.0	3110.0	3120.0	3103.0	3086.0
11.0	3014.0	3017.0	3030.0	3010.0	2990.0
11.5	2911.0	2918.0	2934.0	2911.0	2887.0
12.0	2800.0	2811.0	2833.0	2806.0	2777.0
12.5	2684.0	2699.0	2725.0	2695.0	2663.0
13.0	2560.0	2581.0	2612.0	2579.0	2545.0
13.5	2433.0	2457.0	2495.0	2460.0	2422.0
14.0	2302.0	2329.0	2374.0	2338.0	2296.0
14.5	2167.0	2200.0	2250.0	2213.0	2168.0
15.0	2031.0	2070.0	2126.0	2087.0	2040.0
15.5	1897.0	1941.0	2002.0	1963.0	1913.0
16.0	1768.0	1814.0	1882.0	1842.0	1791.0
16.5	1642.0	1693.0	1765.0	1724.0	1671.0
17.0	1522.0	1576.0	1652.0	1610.0	1555.0
17.5	1407.0	1464.0	1543.0	1500.0	1444.0
18.0	1301.0	1359.0	1440.0	1398.0	1340.0
18.5	1200.0	1261.0	1345.0	1301.0	1242.0
19.0	1110.0	1171.0	1256.0	1210.0	1151.0
19.5	1026.0	1089.0	1175.0	1126.0	1069.0
20.0	952.5	1014.0	1100.0	1050.0	992.2
20.5	886.6	946.6	1032.0	979.9	923.1
21.0	827.3	885.9	969.3	916.8	859.6
21.5	775.0	832.5	913.6	859.4	803.9
22.0	729.0	783.6	863.6	807.6	752.6
22.5	687.6	740.2	819.0	761.3	707.7
23.0	650.3	701.1	778.8	719.6	667.1
23.5	617.0	665.7	742.3	681.6	629.2
24.0	586.3	633.4	709.1	646.5	595.4
24.5	557.8	604.0	678.7	615.0	564.1
25.0	531.8	576.9	651.1	585.5	535.2
25.5	507.1	551.6	625.3	558.4	508.2
26.0	483.1	527.6	601.3	533.3	483.2
26.5	460.7	505.3	578.2	509.7	459.5

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CANDELA TABULATION - (Cont.)

27.0	439.2	483.7	556.3	487.3	437.4
27.5	418.8	462.9	535.7	465.9	416.7
28.0	399.1	443.0	515.8	445.6	397.1
28.5	380.6	423.9	496.7	426.0	379.2
29.0	362.8	405.5	478.1	407.4	362.4
29.5	346.2	387.9	460.0	389.7	347.0
30.0	330.9	370.8	442.3	372.8	333.1
30.5	316.6	354.4	424.9	356.9	319.9
31.0	303.7	338.7	407.8	342.0	307.8
31.5	291.9	324.1	390.9	328.0	296.4
32.0	281.3	310.6	374.5	315.1	285.9
32.5	271.5	298.2	358.7	303.0	276.0
33.0	262.2	286.7	343.2	291.7	266.7
33.5	253.7	276.0	328.3	281.2	257.9
34.0	246.0	266.1	314.3	271.4	249.5
34.5	238.7	257.0	300.9	262.2	241.8
35.0	232.0	248.6	288.3	253.6	234.5
35.5	225.7	240.9	276.4	245.4	227.6
36.0	219.7	233.5	265.3	237.8	221.0
36.5	214.0	226.5	255.0	230.5	214.8
37.0	208.5	220.2	245.4	223.7	208.9
37.5	203.2	214.0	236.3	217.2	203.2
38.0	198.0	208.0	227.9	211.0	197.9
38.5	192.9	202.5	220.0	205.0	192.7
39.0	187.7	197.2	212.8	199.3	187.6
39.5	182.7	192.0	206.0	193.8	182.6
40.0	177.6	187.0	199.4	188.5	177.6
40.5	172.6	182.1	193.2	183.4	172.6
41.0	167.6	177.3	187.3	178.5	167.8
41.5	162.8	172.6	181.7	173.7	163.0
42.0	158.2	168.1	176.5	169.1	158.4
42.5	153.6	163.6	171.4	164.6	153.9
43.0	149.1	159.2	166.6	160.2	149.5
43.5	144.8	154.9	162.0	155.9	145.2
44.0	140.6	150.7	157.6	151.7	141.1
44.5	136.6	146.6	153.3	147.6	137.1
45.0	132.5	142.5	149.2	143.6	133.1
45.5	128.8	138.5	145.2	139.6	129.4
46.0	125.1	134.6	141.3	135.9	125.7
46.5	121.3	130.8	137.6	132.1	122.2
47.0	117.8	127.0	133.8	128.4	118.8
47.5	114.4	123.4	130.1	124.8	115.5
48.0	111.1	119.9	126.5	121.4	112.3
48.5	107.9	116.5	123.0	118.0	109.2
49.0	104.9	113.2	119.5	114.7	106.3
49.5	102.0	110.0	116.1	111.6	103.5
50.0	99.3	106.9	112.8	108.5	100.8
50.5	96.7	103.9	109.7	105.6	98.3
51.0	94.2	101.2	106.6	102.9	95.8
51.5	91.9	98.4	103.7	100.2	93.5
52.0	89.6	95.9	100.8	97.7	91.3
52.5	87.4	93.3	98.0	95.2	89.1
53.0	85.3	91.0	95.4	92.8	87.0
53.5	83.4	88.8	92.7	90.6	85.0
54.0	81.4	86.5	90.2	88.3	83.1
54.5	79.6	84.5	87.8	86.2	81.3

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CANDELA TABULATION - (Cont.)

55.0	77.9	82.4	85.4	84.1	79.5
55.5	76.2	80.4	83.1	82.0	77.8
56.0	74.7	78.4	80.9	80.0	76.1
56.5	73.1	76.5	78.7	78.2	74.5
57.0	71.5	74.8	76.6	76.3	72.8
57.5	70.1	73.0	74.6	74.5	71.4
58.0	68.6	71.3	72.7	72.7	69.7
58.5	67.3	69.6	70.7	71.0	68.1
59.0	65.9	68.1	68.8	69.3	66.6
59.5	64.5	66.5	67.0	67.5	65.0
60.0	63.2	64.8	65.2	65.9	63.4
60.5	61.7	63.3	63.4	64.2	61.9
61.0	60.4	61.7	61.7	62.5	60.4
61.5	58.8	60.2	59.9	60.8	58.8
62.0	57.4	58.6	58.3	59.2	57.3
62.5	55.7	57.1	56.6	57.6	55.7
63.0	54.3	55.5	54.9	55.9	54.2
63.5	52.8	54.0	53.3	54.3	52.7
64.0	51.3	52.4	51.7	52.6	51.2
64.5	49.7	50.8	50.1	51.0	49.7
65.0	48.3	49.3	48.6	49.5	48.3
65.5	46.8	47.7	47.1	47.9	46.9
66.0	45.4	46.2	45.6	46.4	45.5
66.5	44.0	44.7	44.1	45.0	44.1
67.0	42.6	43.2	42.6	43.5	42.8
67.5	41.3	41.7	41.1	42.2	41.4
68.0	40.0	40.3	39.7	40.8	40.1
68.5	38.5	38.9	38.3	39.4	38.8
69.0	37.2	37.5	36.9	38.0	37.5
69.5	36.0	36.1	35.6	36.7	36.2
70.0	34.7	34.8	34.2	35.4	34.9
70.5	33.4	33.5	32.9	34.1	33.7
71.0	32.1	32.2	31.6	32.8	32.5
71.5	30.8	31.0	30.3	31.5	31.3
72.0	29.6	29.7	29.1	30.2	30.0
72.5	28.4	28.4	27.8	29.0	28.8
73.0	27.2	27.2	26.6	27.8	27.6
73.5	26.0	26.1	25.4	26.6	26.5
74.0	24.8	24.9	24.3	25.4	25.3
74.5	23.7	23.7	23.2	24.1	24.2
75.0	22.6	22.6	22.1	23.0	23.1
75.5	21.5	21.4	21.0	21.9	22.0
76.0	20.4	20.4	19.9	20.7	20.9
76.5	19.3	19.3	18.8	19.6	19.9
77.0	18.3	18.2	17.8	18.6	18.8
77.5	17.3	17.2	16.8	17.5	17.7
78.0	16.2	16.1	15.8	16.5	16.8
78.5	15.3	15.1	14.7	15.5	15.8
79.0	14.3	14.2	13.8	14.5	14.8
79.5	13.4	13.2	12.9	13.5	13.9
80.0	12.5	12.3	12.0	12.6	13.0
80.5	11.6	11.4	11.1	11.7	12.0
81.0	10.7	10.5	10.2	10.8	11.2
81.5	9.8	9.6	9.4	9.9	10.3
82.0	9.1	8.8	8.5	9.0	9.5
82.5	8.2	7.9	7.7	8.2	8.6

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CANDELA TABULATION - (Cont.)

83.0	7.5	7.2	7.0	7.4	7.8
83.5	6.8	6.4	6.2	6.6	7.0
84.0	6.0	5.7	5.4	5.9	6.3
84.5	5.2	4.9	4.7	5.1	5.5
85.0	4.5	4.2	4.0	4.4	4.8
85.5	3.8	3.5	3.3	3.7	3.9
86.0	3.1	2.9	2.7	2.9	3.0
86.5	2.4	2.1	2.1	2.2	2.5
87.0	1.3	1.6	1.6	1.7	2.0
87.5	0.8	1.1	1.2	1.3	1.4
88.0	0.6	0.6	0.8	0.8	0.8
88.5	0.5	0.5	0.5	0.5	0.5
89.0	0.4	0.3	0.4	0.4	0.4
89.5	0.2	0.2	0.3	0.3	0.3
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	899.06	N.A.	56.00
0-30	1179.14	N.A.	73.40
0-40	1343.4	N.A.	83.60
0-60	1528.63	N.A.	95.10
0-80	1601.47	N.A.	99.70
0-90	1606.76	N.A.	100.00
10-90	1265.64	N.A.	78.80
20-40	444.34	N.A.	27.70
20-50	554.82	N.A.	34.50
40-70	233.90	N.A.	14.60
60-80	72.84	N.A.	4.50
70-80	24.18	N.A.	1.50
80-90	5.29	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	1606.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.12
10-20	557.94
20-30	280.08
30-40	164.26
40-50	110.49
50-60	74.75
60-70	48.66
70-80	24.18
80-90	5.29
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-LM-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	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	84	87	85	82	81
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68
7	85	77	71	67	84	76	71	67	75	70	66	74	69	66	73	69	66	64
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57

IES INDOOR REPORT
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UGR TABLE - CORRECTED

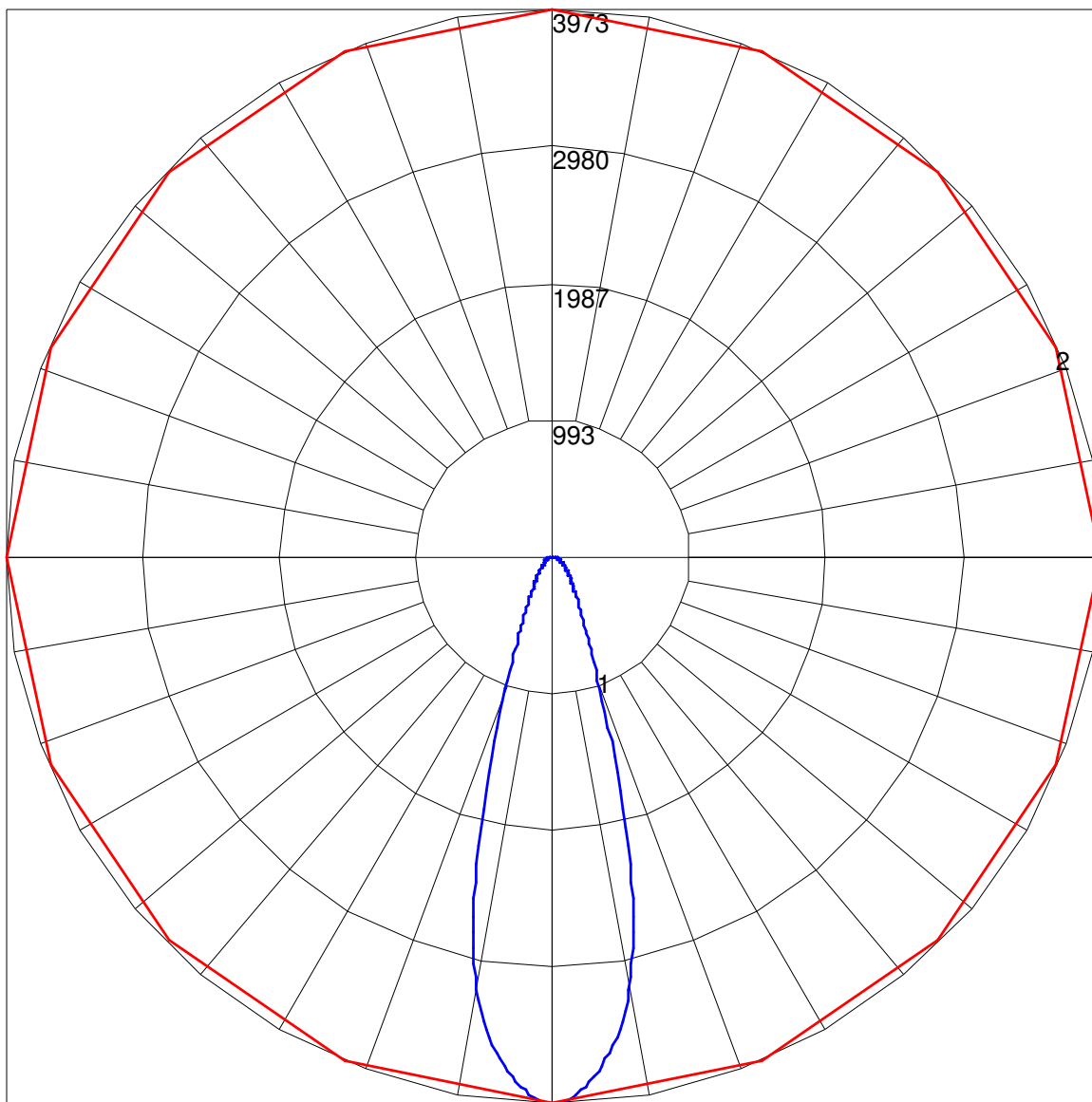
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	20.5	21.6	20.9	21.9	22.2	20.6	21.8	21.0	22.1	22.4
	3H	21.9	22.8	22.2	23.2	23.5	22.0	23.0	22.3	23.3	23.7
	4H	22.3	23.2	22.7	23.6	24.0	22.4	23.3	22.8	23.7	24.1
	6H	22.6	23.4	23.0	23.8	24.2	22.7	23.5	23.1	23.9	24.3
	8H	22.6	23.4	23.1	23.8	24.2	22.8	23.6	23.2	24.0	24.4
	12H	22.7	23.4	23.1	23.8	24.2	22.8	23.5	23.2	23.9	24.4
4H	2H	20.9	21.8	21.3	22.2	22.6	21.0	22.0	21.4	22.3	22.7
	3H	22.5	23.2	22.9	23.6	24.0	22.5	23.3	23.0	23.7	24.1
	4H	23.0	23.7	23.4	24.1	24.5	23.1	23.8	23.5	24.2	24.6
	6H	23.4	24.0	23.9	24.4	24.9	23.5	24.1	24.0	24.5	25.0
	8H	23.5	24.0	23.9	24.5	24.9	23.6	24.1	24.1	24.6	25.0
	12H	23.5	24.0	24.0	24.5	24.9	23.6	24.1	24.1	24.6	25.1
8H	4H	23.1	23.7	23.6	24.1	24.6	23.2	23.8	23.7	24.2	24.7
	6H	23.6	24.0	24.1	24.5	25.0	23.7	24.1	24.2	24.6	25.1
	8H	23.7	24.1	24.3	24.6	25.1	23.8	24.2	24.4	24.8	25.3
	12H	23.8	24.2	24.4	24.7	25.2	24.0	24.3	24.5	24.8	25.4
12H	4H	23.1	23.6	23.6	24.1	24.6	23.2	23.7	23.7	24.2	24.6
	6H	23.6	24.0	24.1	24.5	25.0	23.7	24.1	24.2	24.6	25.1
	8H	23.8	24.1	24.3	24.6	25.2	23.9	24.2	24.4	24.7	25.3

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 3973 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.)