



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4CS-L15-835-XXX-DIM-UNV-ON-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 13257153.21
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 02/08/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 4CS-L15-835-xxx-DIM-UNV-ON-CS
 [LUMINAIRE] Square 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	1133
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	17.3039
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	57017	52377	59302
55	28775	29685	29772
65	941	6176	1000
75	480	480	480
85	285	285	285

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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	1434.0	1434.0	1434.0	1434.0	1434.0
0.5	1435.0	1435.0	1434.0	1433.0	1434.0
1.0	1434.0	1433.0	1432.0	1431.0	1432.0
1.5	1431.0	1431.0	1429.0	1429.0	1430.0
2.0	1428.0	1428.0	1426.0	1425.0	1426.0
2.5	1423.0	1423.0	1421.0	1420.0	1421.0
3.0	1416.0	1417.0	1415.0	1414.0	1415.0
3.5	1409.0	1410.0	1408.0	1408.0	1408.0
4.0	1401.0	1402.0	1400.0	1400.0	1400.0
4.5	1392.0	1393.0	1391.0	1391.0	1392.0
5.0	1383.0	1383.0	1382.0	1381.0	1382.0
5.5	1373.0	1373.0	1371.0	1371.0	1371.0
6.0	1362.0	1362.0	1361.0	1360.0	1360.0
6.5	1351.0	1350.0	1349.0	1348.0	1348.0
7.0	1338.0	1338.0	1337.0	1336.0	1336.0
7.5	1325.0	1326.0	1324.0	1323.0	1323.0
8.0	1312.0	1312.0	1311.0	1309.0	1309.0
8.5	1298.0	1299.0	1297.0	1296.0	1295.0
9.0	1283.0	1284.0	1283.0	1281.0	1280.0
9.5	1268.0	1269.0	1268.0	1266.0	1265.0
10.0	1252.0	1254.0	1253.0	1250.0	1249.0
10.5	1236.0	1237.0	1237.0	1234.0	1232.0
11.0	1218.0	1221.0	1221.0	1218.0	1216.0
11.5	1201.0	1204.0	1205.0	1201.0	1197.0
12.0	1182.0	1186.0	1188.0	1183.0	1179.0
12.5	1164.0	1168.0	1170.0	1165.0	1160.0
13.0	1145.0	1149.0	1153.0	1146.0	1141.0
13.5	1126.0	1130.0	1135.0	1128.0	1122.0
14.0	1107.0	1111.0	1116.0	1109.0	1103.0
14.5	1087.0	1092.0	1097.0	1090.0	1083.0
15.0	1067.0	1072.0	1078.0	1070.0	1064.0
15.5	1047.0	1052.0	1058.0	1050.0	1044.0
16.0	1027.0	1033.0	1039.0	1030.0	1024.0
16.5	1007.0	1013.0	1019.0	1011.0	1004.0
17.0	986.5	993.1	998.9	991.3	983.9
17.5	966.3	973.1	978.6	971.3	963.6
18.0	945.9	953.2	958.3	951.5	943.5
18.5	925.5	933.5	938.0	931.1	923.3
19.0	905.5	913.6	917.6	911.2	902.8
19.5	885.4	893.4	897.3	891.1	882.2
20.0	864.8	873.1	876.8	870.8	861.8
20.5	844.5	852.8	856.2	850.3	840.7
21.0	823.8	832.5	835.2	829.9	819.9
21.5	803.5	812.1	814.3	809.0	799.2
22.0	783.8	791.7	793.7	788.5	779.2
22.5	764.5	772.2	774.4	769.2	759.2
23.0	744.6	753.3	754.4	749.1	738.5
23.5	725.9	733.5	735.3	730.0	719.7
24.0	705.6	714.0	715.4	709.9	699.0
24.5	685.2	693.7	695.2	689.5	678.4
25.0	664.8	673.5	675.1	669.3	657.9
25.5	644.3	653.5	655.4	649.2	637.6
26.0	623.8	633.7	636.0	629.4	617.4
26.5	603.2	613.9	616.9	609.7	597.2

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CANDELA TABULATION - (Cont.)

27.0	582.6	594.1	598.0	590.2	577.2
27.5	562.1	574.6	579.5	570.8	557.6
28.0	541.7	555.3	561.1	551.7	538.2
28.5	522.0	536.2	543.2	532.7	519.1
29.0	502.7	517.3	525.7	514.3	500.6
29.5	483.9	498.7	508.6	496.1	482.6
30.0	465.7	480.3	491.5	478.1	464.9
30.5	447.9	462.3	474.7	460.5	447.9
31.0	430.8	444.7	458.3	443.3	431.4
31.5	414.3	427.6	442.1	426.6	415.5
32.0	398.6	411.1	426.2	410.6	400.3
32.5	383.7	395.2	410.9	395.1	385.7
33.0	369.4	379.7	395.7	380.2	371.9
33.5	355.7	364.9	381.0	365.8	358.6
34.0	342.8	350.7	366.6	352.1	345.9
34.5	330.5	337.1	352.6	338.8	333.8
35.0	318.8	324.1	339.0	326.3	322.5
35.5	307.8	311.7	325.7	314.3	311.7
36.0	297.1	299.9	312.9	302.8	301.4
36.5	286.9	288.5	300.2	291.6	291.4
37.0	277.2	277.7	287.9	281.0	281.9
37.5	267.8	267.3	276.0	270.9	272.8
38.0	258.7	257.4	264.4	261.2	264.1
38.5	250.1	247.9	253.3	252.0	255.6
39.0	241.8	238.8	242.6	243.1	247.6
39.5	233.7	230.1	232.3	234.5	239.7
40.0	225.9	221.7	222.5	226.3	232.1
40.5	218.3	213.7	213.2	218.5	224.8
41.0	211.1	206.1	204.3	210.9	217.8
41.5	204.2	198.7	196.0	203.7	210.9
42.0	197.5	191.7	188.1	196.8	204.3
42.5	191.1	185.0	180.7	190.1	197.9
43.0	184.9	178.6	173.6	183.7	191.8
43.5	178.9	172.4	166.9	177.6	185.8
44.0	173.1	166.4	160.6	171.7	180.0
44.5	167.5	160.7	154.6	165.9	174.2
45.0	162.2	155.2	149.0	160.4	168.7
45.5	156.9	149.8	143.6	155.0	163.3
46.0	151.7	144.6	138.4	149.8	157.9
46.5	146.6	139.5	133.5	144.7	152.5
47.0	141.6	134.5	128.7	139.6	147.2
47.5	136.6	129.7	124.1	134.8	142.0
48.0	131.7	125.0	119.7	130.0	136.7
48.5	126.9	120.4	115.5	125.3	131.6
49.0	122.0	115.9	111.4	120.7	126.4
49.5	117.2	111.5	107.4	116.2	121.3
50.0	112.5	107.3	103.5	111.9	116.3
50.5	107.8	103.2	99.8	107.6	111.3
51.0	102.8	99.1	96.0	103.4	106.4
51.5	98.2	95.2	92.5	99.3	101.4
52.0	93.5	91.3	89.0	95.2	96.5
52.5	88.7	87.5	85.5	91.3	91.7
53.0	84.2	83.8	82.0	87.5	86.9
53.5	79.6	80.1	78.6	83.5	82.2
54.0	75.2	76.3	75.3	79.8	77.5
54.5	70.7	72.7	71.8	76.0	73.1

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CANDELA TABULATION - (Cont.)

55.0	66.4	69.1	68.5	72.4	68.7
55.5	62.3	65.6	65.2	68.7	64.4
56.0	58.1	62.1	61.9	65.1	60.1
56.5	54.1	58.6	58.6	61.4	55.9
57.0	50.2	55.1	55.4	57.8	51.7
57.5	46.3	51.7	52.2	54.3	47.8
58.0	42.6	48.4	49.1	50.7	43.7
58.5	38.8	45.1	45.9	47.1	39.7
59.0	35.2	41.7	42.8	43.6	35.6
59.5	31.4	38.3	39.7	40.0	31.4
60.0	27.6	35.0	36.8	36.5	27.3
60.5	23.7	31.6	33.8	32.9	23.4
61.0	19.9	28.3	30.9	29.2	19.7
61.5	16.3	24.9	28.1	25.5	16.2
62.0	13.2	21.4	25.3	21.8	12.5
62.5	10.5	18.0	22.6	18.2	8.9
63.0	8.1	14.7	19.9	14.9	7.0
63.5	4.2	11.7	17.4	11.8	5.7
64.0	2.1	9.0	15.0	8.7	4.4
64.5	1.8	6.5	12.7	6.2	2.5
65.0	1.6	4.5	10.5	4.8	1.7
65.5	1.5	3.0	8.5	3.7	1.6
66.0	1.4	1.8	6.8	2.5	1.5
66.5	1.3	1.3	5.3	1.5	1.4
67.0	1.3	1.2	4.1	1.3	1.3
67.5	1.2	1.1	3.2	1.2	1.3
68.0	1.1	1.1	2.5	1.1	1.2
68.5	1.1	1.0	1.9	1.0	1.1
69.0	1.0	0.9	1.5	1.0	1.0
69.5	0.9	0.9	1.3	0.9	1.0
70.0	0.9	0.8	1.1	0.9	0.9
70.5	0.8	0.8	0.9	0.8	0.9
71.0	0.8	0.7	0.8	0.8	0.8
71.5	0.7	0.7	0.7	0.7	0.8
72.0	0.7	0.7	0.7	0.7	0.7
72.5	0.7	0.6	0.6	0.6	0.7
73.0	0.6	0.6	0.6	0.6	0.6
73.5	0.6	0.5	0.6	0.6	0.6
74.0	0.5	0.5	0.5	0.5	0.6
74.5	0.5	0.5	0.5	0.5	0.5
75.0	0.5	0.5	0.5	0.5	0.5
75.5	0.4	0.4	0.4	0.4	0.5
76.0	0.4	0.4	0.4	0.4	0.4
76.5	0.4	0.4	0.4	0.4	0.4
77.0	0.4	0.3	0.4	0.4	0.4
77.5	0.4	0.3	0.3	0.3	0.4
78.0	0.3	0.3	0.3	0.3	0.3
78.5	0.3	0.3	0.3	0.3	0.3
79.0	0.3	0.3	0.3	0.3	0.3
79.5	0.3	0.3	0.3	0.3	0.3
80.0	0.2	0.2	0.2	0.2	0.3
80.5	0.2	0.2	0.2	0.2	0.2
81.0	0.2	0.2	0.2	0.2	0.2
81.5	0.2	0.2	0.2	0.2	0.2
82.0	0.2	0.2	0.2	0.2	0.2
82.5	0.2	0.2	0.2	0.2	0.2

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CANDELA TABULATION - (Cont.)

83.0	0.2	0.2	0.2	0.2	0.2
83.5	0.1	0.1	0.1	0.1	0.1
84.0	0.1	0.1	0.1	0.1	0.1
84.5	0.1	0.1	0.1	0.1	0.1
85.0	0.1	0.1	0.1	0.1	0.1
85.5	0.1	0.1	0.1	0.1	0.1
86.0	0.1	0.1	0.1	0.1	0.1
86.5	0.1	0.1	0.1	0.1	0.1
87.0	0.1	0.1	0.1	0.1	0.1
87.5	0.1	0.1	0.1	0.1	0.1
88.0	0.1	0.0	0.0	0.1	0.1
88.5	0.0	0.0	0.0	0.0	0.0
89.0	0.0	0.0	0.0	0.0	0.0
89.5	0.0	0.0	0.0	0.0	0.0
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

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	424.63	N.A.	37.50
0-30	729.55	N.A.	64.40
0-40	937.21	N.A.	82.70
0-60	1122.58	N.A.	99.10
0-80	1132.87	N.A.	100.00
0-90	1133.00	N.A.	100.00
10-90	1005.27	N.A.	88.70
20-40	512.58	N.A.	45.20
20-50	635.70	N.A.	56.10
40-70	195.14	N.A.	17.20
60-80	10.29	N.A.	0.90
70-80	0.53	N.A.	0.00
80-90	0.12	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	1133.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.73
10-20	296.90
20-30	304.93
30-40	207.66
40-50	123.12
50-60	62.25
60-70	9.77
70-80	0.53
80-90	0.12
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
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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	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	76	70	65	84	75	69	65	74	69	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	57	76	67	61	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	56	52	51
10	70	60	54	50	69	59	54	50	58	53	50	58	53	49	57	52	49	48

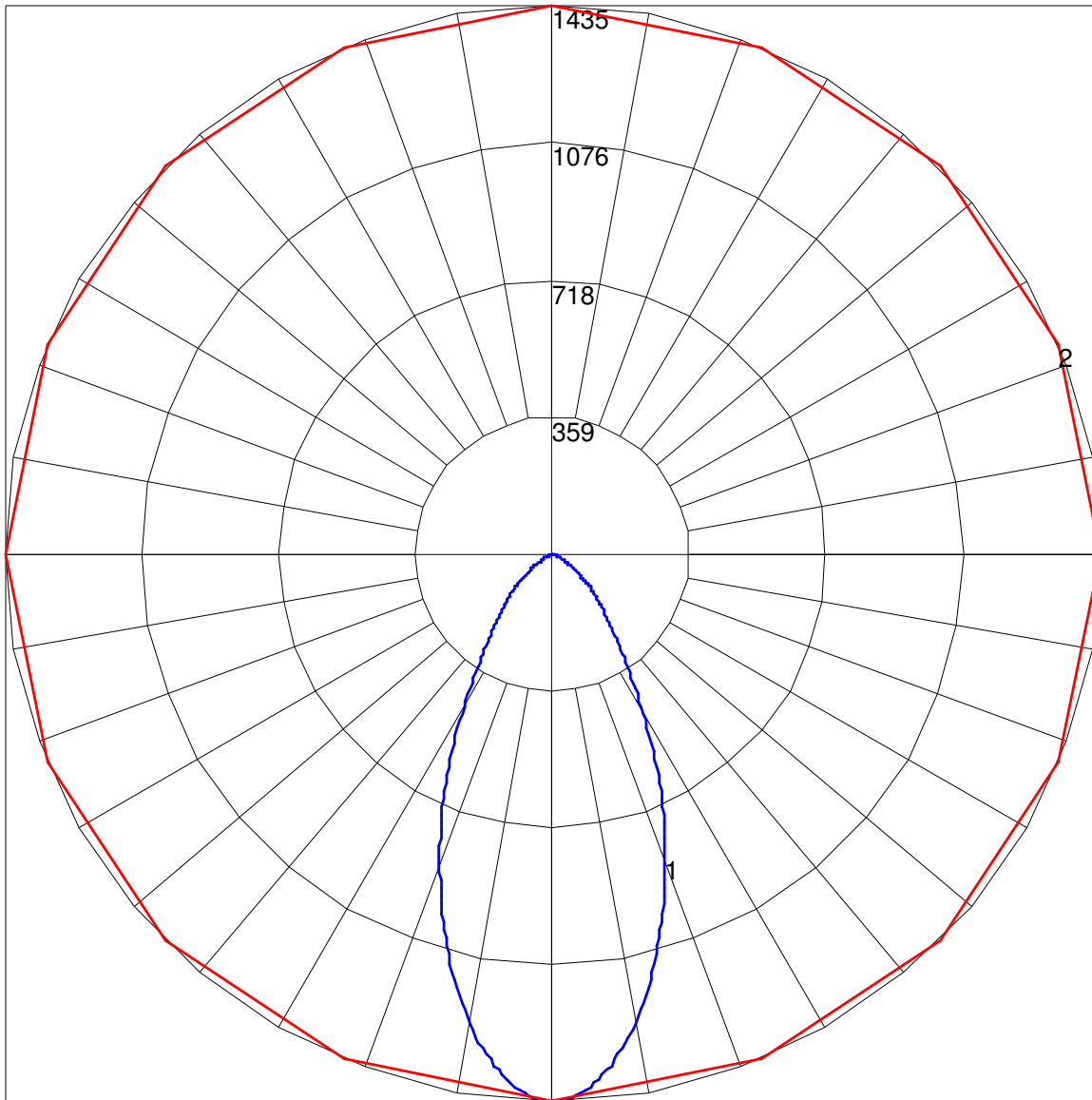
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UGR TABLE - CORRECTED

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	19.2	20.3	19.5	20.6	20.9	19.5	20.6	19.8	20.9	21.2
	3H	19.0	20.0	19.4	20.3	20.7	19.3	20.3	19.7	20.6	21.0
	4H	18.9	19.8	19.3	20.2	20.6	19.2	20.1	19.6	20.5	20.9
	6H	18.8	19.6	19.2	20.0	20.4	19.1	20.0	19.5	20.3	20.7
	8H	18.8	19.5	19.2	19.9	20.3	19.1	19.9	19.5	20.2	20.7
	12H	18.7	19.4	19.1	19.8	20.3	19.0	19.8	19.5	20.1	20.6
4H	2H	19.0	19.9	19.4	20.3	20.6	19.3	20.2	19.7	20.6	20.9
	3H	18.8	19.5	19.2	20.0	20.4	19.1	19.9	19.5	20.3	20.7
	4H	18.7	19.4	19.1	19.8	20.2	19.0	19.7	19.4	20.1	20.5
	6H	18.6	19.2	19.1	19.6	20.1	18.9	19.5	19.4	19.9	20.4
	8H	18.6	19.1	19.0	19.5	20.0	18.9	19.4	19.3	19.8	20.3
	12H	18.5	18.9	19.0	19.4	19.9	18.8	19.2	19.3	19.7	20.2
8H	4H	18.6	19.1	19.0	19.5	20.0	18.9	19.4	19.3	19.8	20.3
	6H	18.4	18.8	18.9	19.3	19.8	18.7	19.1	19.2	19.6	20.1
	8H	18.4	18.7	18.9	19.2	19.7	18.7	19.0	19.2	19.5	20.0
	12H	18.3	18.6	18.8	19.1	19.7	18.6	18.9	19.1	19.4	20.0
12H	4H	18.5	18.9	19.0	19.4	19.9	18.8	19.2	19.3	19.7	20.2
	6H	18.4	18.7	18.9	19.2	19.7	18.7	19.0	19.2	19.5	20.1
	8H	18.3	18.6	18.8	19.1	19.7	18.6	18.9	19.1	19.4	20.0

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 1435 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.)