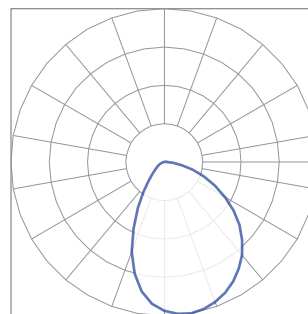


ZipOne™ | 707

707-Z1-4-48-X-X-X-0-Z-SO-35-A2-0-AL

The performance data in black text is confirmed through third party testing (see the following Light Laboratory report for details). The performance data in grey text is calculated by Vode, for reference only.

Technical Support: (707) 996-9898



Details

Rail Type / Length	ZipOne, 48"
LED Type	Zipper Board
Lumen Output	Standard Output
Color Temperature	3500K, 80+ CRI
Optics	100° Asymmetric Lens

Performance Summary

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	117	120	122
Total Lumens, 4' rail (1219mm)	2962	3056	3118	3181
Lumens per foot (305mm)	741	764	780	795
Input Power (W), 4' rail (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	-	-	85	-

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IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z1_SO_35_A2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L101707606 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z1-48-Z-SO-35-A2
[LUMINAIRE] ZipOne LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 100° asymmetric lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	26.17
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	66562	64863	56515
55	62932	60291	49453
65	56364	52903	39925
75	48440	43999	29468
85	41956	34763	16183

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
5	1445.36	1444.20	1444.20	1444.20	1443.04	1441.88	1440.72	1438.40	1437.24	1434.92
10	1455.80	1454.64	1454.64	1453.48	1452.32	1451.16	1448.84	1446.52	1444.20	1440.72
15	1443.04	1443.04	1441.88	1441.88	1439.56	1438.40	1437.24	1433.76	1431.44	1427.96
20	1412.88	1412.88	1412.88	1411.72	1410.56	1409.40	1407.08	1404.76	1401.28	1397.80
25	1366.48	1366.48	1366.48	1365.32	1365.32	1363.00	1360.68	1358.36	1356.04	1352.56
30	1306.16	1306.16	1306.16	1305.00	1303.84	1302.68	1300.36	1298.04	1295.72	1292.24
35	1233.08	1231.92	1231.92	1230.76	1228.44	1227.28	1224.96	1221.48	1219.16	1215.68
40	1146.08	1146.08	1144.92	1143.76	1141.44	1139.12	1135.64	1132.16	1128.68	1125.20
45	1045.16	1044.00	1042.84	1041.68	1038.20	1034.72	1031.24	1027.76	1023.12	1018.48
50	930.32	929.16	928.00	925.68	922.20	918.72	914.08	909.44	904.80	899.00
55	801.56	800.40	799.24	796.92	793.44	789.96	785.32	779.52	773.72	767.92
60	665.84	665.84	664.68	662.36	658.88	654.24	649.60	643.80	638.00	631.04
65	528.96	528.96	527.80	525.48	522.00	517.36	513.88	508.08	502.28	496.48
70	397.88	397.88	396.72	394.40	392.08	388.60	383.96	380.48	375.84	370.04
75	278.40	278.40	277.24	274.92	272.60	270.28	266.80	262.16	257.52	252.88
80	170.52	169.36	169.36	167.04	165.88	162.40	160.08	157.76	154.28	149.64
85	81.20	80.04	80.04	78.88	77.72	76.56	74.24	71.92	69.60	67.28
90	22.04	20.88	20.88	20.88	19.72	19.72	18.56	17.40	16.24	15.08
95	18.56	18.56	18.56	17.40	17.40	16.24	16.24	15.08	13.92	13.92
100	17.40	17.40	17.40	17.40	16.24	16.24	15.08	15.08	13.92	12.76
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
5	1432.60	1430.28	1426.80	1424.48	1421.00	1417.52	1412.88	1409.40	1405.92	1401.28
10	1437.24	1432.60	1427.96	1423.32	1417.52	1410.56	1403.60	1395.48	1387.36	1379.24
15	1423.32	1417.52	1412.88	1405.92	1397.80	1389.68	1380.40	1368.80	1356.04	1342.12
20	1393.16	1388.52	1382.72	1375.76	1366.48	1356.04	1343.28	1329.36	1313.12	1294.56
25	1347.92	1343.28	1336.32	1329.36	1318.92	1307.32	1293.40	1276.00	1255.12	1230.76
30	1287.60	1282.96	1276.00	1267.88	1258.60	1245.84	1229.60	1208.72	1184.36	1154.20
35	1211.04	1206.40	1199.44	1191.32	1182.04	1168.12	1150.72	1128.68	1099.68	1062.56
40	1120.56	1114.76	1108.96	1100.84	1090.40	1075.32	1056.76	1032.40	1001.08	959.32
45	1012.68	1006.88	999.92	991.80	981.36	967.44	947.72	922.20	887.40	839.84
50	892.04	886.24	878.12	870.00	859.56	844.48	824.76	798.08	762.12	713.40
55	760.96	754.00	745.88	736.60	725.00	711.08	691.36	664.68	629.88	582.32
60	624.08	615.96	607.84	598.56	588.12	574.20	555.64	531.28	498.80	453.56

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

65	489.52	481.40	473.28	464.00	452.40	439.64	423.40	402.52	374.68	338.72
70	363.08	356.12	348.00	339.88	329.44	317.84	303.92	286.52	264.48	237.80
75	247.08	241.28	235.48	227.36	219.24	209.96	199.52	185.60	169.36	150.80
80	146.16	141.52	135.72	131.08	124.12	117.16	110.20	100.92	91.64	81.20
85	63.80	61.48	58.00	54.52	49.88	45.24	40.60	35.96	31.32	27.84
90	13.92	12.76	11.60	9.28	8.12	5.80	3.48	2.32	0.00	0.00
95	12.76	11.60	10.44	9.28	6.96	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
5	1396.64	1392.00	1387.36	1383.88	1379.24	1374.60	1371.12	1366.48	1363.00	1359.52
10	1369.96	1359.52	1349.08	1338.64	1328.20	1317.76	1306.16	1295.72	1286.44	1277.16
15	1327.04	1310.80	1293.40	1274.84	1255.12	1235.40	1216.84	1197.12	1178.56	1161.16
20	1272.52	1248.16	1222.64	1194.80	1163.48	1133.32	1103.16	1070.68	1041.68	1011.52
25	1202.92	1170.44	1133.32	1095.04	1050.96	1006.88	962.80	918.72	874.64	835.20
30	1119.40	1076.48	1030.08	979.04	922.20	863.04	806.20	749.36	698.32	650.76
35	1019.64	967.44	910.60	844.48	778.36	711.08	643.80	581.16	527.80	480.24
40	908.28	847.96	780.68	707.60	631.04	559.12	490.68	431.52	382.80	341.04
45	785.32	716.88	643.80	568.40	490.68	422.24	361.92	312.04	272.60	240.12
50	655.40	585.80	512.72	438.48	368.88	310.88	261.00	222.72	193.72	170.52
55	525.48	459.36	385.12	330.60	272.60	226.20	190.24	161.24	140.36	125.28
60	393.24	349.16	290.00	240.12	197.20	163.56	136.88	117.16	102.08	91.64
65	296.96	252.88	209.96	172.84	141.52	117.16	98.60	84.68	75.40	67.28
70	206.48	175.16	145.00	119.48	97.44	81.20	69.60	59.16	52.20	47.56
75	131.08	111.36	95.12	76.56	62.64	52.20	45.24	38.28	34.80	31.32
80	70.76	59.16	48.72	40.60	33.64	29.00	24.36	20.88	18.56	17.40
85	24.36	20.88	17.40	13.92	11.60	10.44	9.28	8.12	6.96	6.96
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z1_SO_35_A2.IES

CANDELA TABULATION - (Cont.)

140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72	1411.72
5	1357.20	1353.72	1352.56	1350.24	1349.08	1347.92	1347.92
10	1269.04	1262.08	1255.12	1250.48	1247.00	1244.68	1243.52
15	1144.92	1131.00	1118.24	1107.80	1100.84	1096.20	1095.04
20	986.00	962.80	943.08	926.84	915.24	908.28	905.96
25	799.24	767.92	742.40	721.52	706.44	697.16	694.84
30	609.00	574.20	546.36	525.48	509.24	499.96	497.64
35	439.64	408.32	382.80	364.24	351.48	344.52	342.20
40	308.56	283.04	263.32	249.40	240.12	234.32	232.00
45	215.76	197.20	184.44	174.00	168.20	164.72	163.56
50	153.12	141.52	132.24	125.28	121.80	119.48	118.32
55	112.52	104.40	98.60	93.96	91.64	89.32	89.32
60	83.52	77.72	73.08	70.76	68.44	67.28	67.28
65	61.48	58.00	54.52	52.20	51.04	49.88	49.88
70	42.92	40.60	38.28	37.12	35.96	35.96	34.80
75	29.00	26.68	25.52	24.36	23.20	23.20	23.20
80	16.24	15.08	13.92	13.92	12.76	12.76	12.76
85	5.80	5.80	5.80	5.80	4.64	4.64	4.64
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z1_SO_35_A2.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.71	N.A.	16.10
0-30	1025.57	N.A.	32.90
0-40	1602.59	N.A.	51.40
0-60	2593.97	N.A.	83.20
0-80	3064.78	N.A.	98.30
0-90	3111.09	N.A.	99.80
10-90	2978.39	N.A.	95.50
20-40	1100.88	N.A.	35.30
20-50	1645.65	N.A.	52.80
40-70	1299.06	N.A.	41.70
60-80	470.81	N.A.	15.10
70-80	163.13	N.A.	5.20
80-90	46.31	N.A.	1.50
90-110	7.28	N.A.	0.20
90-120	7.28	N.A.	0.20
90-130	7.28	N.A.	0.20
90-150	7.28	N.A.	0.20
90-180	7.28	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	3118.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.70
10-20	369.01
20-30	523.86
30-40	577.02
40-50	544.77
50-60	446.61
60-70	307.68
70-80	163.13
80-90	46.31
90-100	6.16
100-110	1.12
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

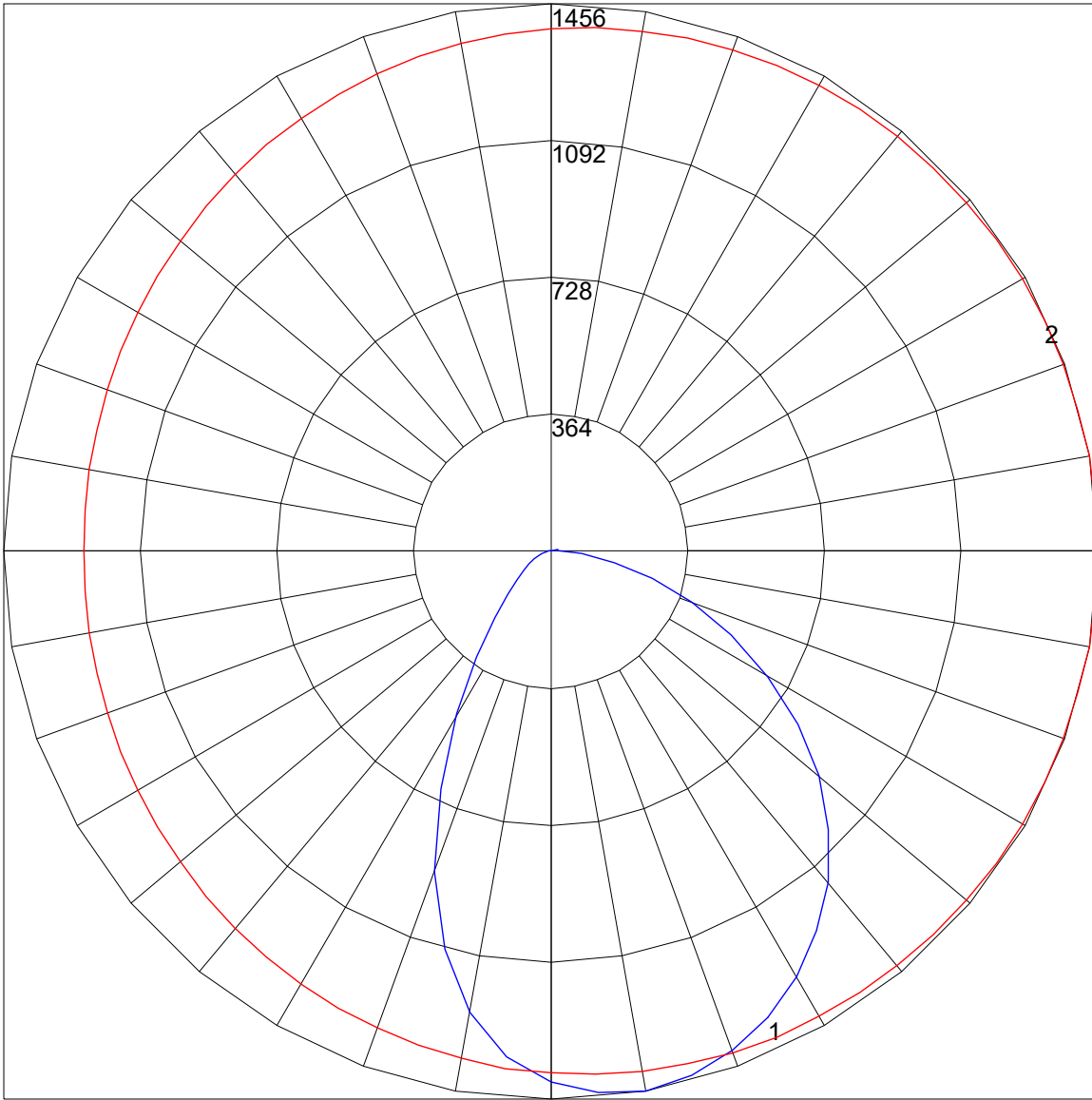
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z1_SO_35_A2.IES

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	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	96	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	78	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	64	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	55	82	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	47	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	41	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	36	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	32	62	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	29	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	26	54	42	35	30	41	34	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 1455.8 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)