

IES Report

ZipWave® | 707 | Clear with EdgeSoft™, fixture in cove | 90 CRI | HO

707-Z9-4-48-AW / EW-XX-X-0-Z-HO-359-C1-0-AL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	54	56	57	58
Total Lumens, 4' rail length (1219mm)	2901	2992	3053	3084
Lumens per foot (305mm)	725	748	763	771
Input Power (W), 4' rail length (1219mm)	53.7	53.7	53.7	53.7
Watts per foot (305mm)	13.5	13.5	13.5	13.5
CRI	94	94	94	94

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z9_AW_HO_359_C1_IN COVE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911562 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z9-48-AW-Z-HO-359-C1-AL

[LUMINAIRE] ZipWave LED, 48", Armstrong wall cove part no. AXIDLCWKE48, 3500K, 90 CRI, zipper board,

[MORE] clear lens w/edgesoft, high output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3053
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	53.73
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	1.92
Spacing Criterion (Diagonal)	3.06
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	242	3388	12584
55	448	4326	16409
65	810	5466	22878
75	1322	6281	36365
85	2945	9817	70684

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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>
0.0	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2
5.0	106.4	106.4	106.4	106.4	106.4	108.3	110.2	110.2	112.1	115.9
10.0	79.8	79.8	81.7	81.7	81.7	83.6	85.5	89.3	93.1	96.9
15.0	58.9	60.8	60.8	60.8	62.7	64.6	70.3	74.1	79.8	85.5
20.0	43.7	43.7	43.7	45.6	47.5	51.3	57.0	62.7	68.4	76.0
25.0	30.4	30.4	32.3	34.2	36.1	41.8	51.3	53.2	60.8	68.4
30.0	20.9	20.9	20.9	24.7	28.5	34.2	38.0	51.3	55.1	62.7
35.0	7.6	9.5	11.4	17.1	22.8	28.5	32.3	43.7	55.1	60.8
37.5	3.8	3.8	3.8	7.6	11.4	20.9	30.4	38.0	53.2	58.9
40.0	3.8	3.8	3.8	7.6	11.4	17.1	22.8	30.4	49.4	57.0
42.5	3.8	3.8	3.8	7.6	13.3	17.1	22.8	30.4	36.1	58.9
45.0	3.8	3.8	5.7	9.5	13.3	19.0	24.7	30.4	36.1	53.2
47.5	3.8	3.8	5.7	9.5	13.3	19.0	24.7	32.3	36.1	53.2
50.0	3.8	3.8	5.7	9.5	15.2	20.9	26.6	32.3	38.0	53.2
52.5	5.7	5.7	7.6	11.4	15.2	20.9	26.6	34.2	39.9	53.2
55.0	5.7	5.7	7.6	11.4	17.1	20.9	26.6	34.2	39.9	55.1
57.5	7.6	7.6	7.6	11.4	17.1	20.9	28.5	34.2	39.9	55.1
60.0	7.6	7.6	9.5	11.4	17.1	20.9	26.6	34.2	39.9	55.1
62.5	7.6	7.6	9.5	11.4	17.1	20.9	26.6	34.2	38.0	53.2
65.0	7.6	7.6	9.5	11.4	15.2	20.9	24.7	32.3	36.1	51.3
67.5	7.6	7.6	9.5	11.4	15.2	19.0	24.7	30.4	34.2	47.5
70.0	7.6	7.6	9.5	11.4	15.2	19.0	22.8	28.5	34.2	39.9
72.5	7.6	7.6	9.5	11.4	13.3	17.1	20.9	26.6	32.3	36.1
75.0	7.6	7.6	9.5	11.4	13.3	17.1	20.9	24.7	30.4	36.1
77.5	7.6	7.6	7.6	9.5	13.3	15.2	19.0	22.8	26.6	32.3
80.0	7.6	7.6	7.6	9.5	11.4	13.3	17.1	19.0	22.8	28.5
85.0	5.7	5.7	7.6	7.6	9.5	11.4	13.3	15.2	17.1	19.0
90.0	5.7	5.7	5.7	7.6	7.6	7.6	9.5	11.4	11.4	13.3
95.0	5.7	5.7	7.6	7.6	7.6	9.5	11.4	11.4	13.3	15.2
100.0	5.7	5.7	7.6	7.6	9.5	11.4	13.3	15.2	17.1	19.0
105.0	5.7	5.7	7.6	7.6	9.5	11.4	15.2	19.0	22.8	26.6
110.0	5.7	5.7	5.7	9.5	11.4	15.2	17.1	22.8	28.5	30.4
115.0	5.7	5.7	5.7	9.5	13.3	17.1	22.8	28.5	32.3	41.8
120.0	5.7	5.7	5.7	9.5	15.2	20.9	26.6	32.3	43.7	51.3
125.0	3.8	3.8	5.7	11.4	17.1	24.7	28.5	41.8	53.2	64.6
130.0	3.8	3.8	7.6	13.3	19.0	24.7	38.0	51.3	64.6	74.1
135.0	3.8	3.8	7.6	13.3	22.8	28.5	45.6	58.9	70.3	76.0
140.0	3.8	3.8	7.6	13.3	19.0	34.2	45.6	60.8	66.5	74.1
145.0	3.8	3.8	5.7	11.4	19.0	26.6	39.9	49.4	62.7	68.4
150.0	3.8	3.8	3.8	7.6	13.3	22.8	30.4	41.8	51.3	60.8
155.0	3.8	3.8	3.8	5.7	9.5	15.2	22.8	28.5	38.0	45.6
160.0	3.8	3.8	3.8	3.8	7.6	9.5	13.3	20.9	26.6	32.3
165.0	3.8	3.8	3.8	3.8	3.8	3.8	7.6	9.5	13.3	17.1
170.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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>
0.0	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2
5.0	117.8	119.7	123.5	127.3	131.1	134.9	138.7	142.5	146.3	152.0
10.0	102.6	106.4	112.1	117.8	125.4	131.1	138.7	146.3	153.9	161.5
15.0	91.2	98.8	104.5	112.1	121.6	129.2	138.7	150.1	159.6	171.0

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CANDELA TABULATION - (Cont.)

20.0	83.6	91.2	98.8	108.3	117.8	129.2	140.6	153.9	167.2	180.5
25.0	76.0	85.5	95.0	106.4	117.8	129.2	142.5	157.7	172.9	191.9
30.0	72.2	81.7	93.1	104.5	117.8	131.1	146.3	161.5	180.5	201.4
35.0	70.3	79.8	91.2	104.5	117.8	131.1	148.2	165.3	184.3	209.0
37.5	68.4	79.8	91.2	104.5	117.8	133.0	148.2	167.2	188.1	212.8
40.0	66.5	77.9	91.2	104.5	117.8	133.0	150.1	169.1	191.9	218.5
42.5	66.5	77.9	89.3	104.5	119.7	134.9	152.0	172.9	195.7	224.2
45.0	64.6	77.9	89.3	104.5	119.7	134.9	153.9	174.8	197.6	228.0
47.5	58.9	76.0	91.2	104.5	119.7	136.8	155.8	176.7	201.4	233.7
50.0	58.9	72.2	89.3	104.5	119.7	138.7	157.7	178.6	203.3	237.5
52.5	60.8	70.3	87.4	104.5	121.6	138.7	157.7	180.5	205.2	241.3
55.0	60.8	72.2	85.5	104.5	121.6	140.6	159.6	182.4	209.0	245.1
57.5	60.8	72.2	83.6	100.7	121.6	138.7	161.5	184.3	210.9	248.9
60.0	60.8	72.2	83.6	98.8	119.7	138.7	161.5	184.3	212.8	252.7
62.5	58.9	70.3	83.6	96.9	115.9	138.7	161.5	186.2	212.8	254.6
65.0	57.0	68.4	81.7	95.0	112.1	134.9	159.6	186.2	214.7	258.4
67.5	53.2	64.6	77.9	93.1	108.3	131.1	157.7	186.2	214.7	260.3
70.0	55.1	60.8	72.2	87.4	104.5	125.4	153.9	184.3	212.8	262.2
72.5	49.4	55.1	66.5	81.7	98.8	119.7	146.3	180.5	210.9	264.1
75.0	39.9	55.1	60.8	74.1	89.3	110.2	138.7	176.7	209.0	266.0
77.5	36.1	47.5	53.2	64.6	79.8	98.8	127.3	167.2	205.2	266.0
80.0	32.3	38.0	49.4	55.1	66.5	83.6	112.1	155.8	195.7	256.5
85.0	22.8	26.6	30.4	36.1	39.9	60.8	68.4	100.7	136.8	172.9
90.0	13.3	15.2	17.1	19.0	20.9	20.9	20.9	22.8	30.4	79.8
95.0	17.1	19.0	20.9	24.7	30.4	34.2	55.1	100.7	115.9	157.7
100.0	22.8	26.6	30.4	39.9	51.3	79.8	102.6	133.0	146.3	167.2
105.0	28.5	36.1	45.6	60.8	87.4	108.3	134.9	150.1	159.6	163.4
110.0	39.9	49.4	62.7	89.3	112.1	133.0	150.1	165.3	172.9	171.0
115.0	49.4	64.6	89.3	110.2	129.2	148.2	161.5	172.9	178.6	178.6
120.0	64.6	87.4	104.5	123.5	140.6	153.9	165.3	174.8	180.5	180.5
125.0	83.6	96.9	112.1	127.3	140.6	152.0	161.5	171.0	176.7	176.7
130.0	85.5	98.8	112.1	123.5	134.9	144.4	152.0	161.5	165.3	167.2
135.0	85.5	93.1	104.5	115.9	123.5	133.0	138.7	144.4	150.1	153.9
140.0	81.7	91.2	96.9	104.5	112.1	115.9	123.5	129.2	131.1	134.9
145.0	76.0	83.6	87.4	93.1	98.8	102.6	106.4	108.3	112.1	114.0
150.0	66.5	72.2	76.0	81.7	85.5	87.4	89.3	91.2	93.1	93.1
155.0	53.2	60.8	64.6	66.5	68.4	72.2	74.1	74.1	72.2	70.3
160.0	36.1	41.8	45.6	49.4	53.2	53.2	53.2	51.3	51.3	49.4
165.0	19.0	24.7	28.5	32.3	34.2	34.2	34.2	34.2	32.3	30.4
170.0	5.7	7.6	9.5	11.4	13.3	13.3	13.3	13.3	11.4	9.5
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0.0	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2
5.0	155.8	159.6	163.4	169.1	172.9	178.6	182.4	186.2	190.0	193.8
10.0	169.1	176.7	184.3	193.8	201.4	210.9	218.5	226.1	233.7	241.3
15.0	182.4	195.7	207.1	222.3	235.6	248.9	264.1	277.4	292.6	304.0
20.0	197.6	214.7	231.8	252.7	273.6	296.4	317.3	342.0	364.8	387.6
25.0	212.8	235.6	260.3	286.9	317.3	349.6	370.5	421.8	461.7	505.4
30.0	226.1	256.5	288.8	326.8	368.6	397.1	476.9	535.8	602.3	657.4
35.0	237.5	271.7	309.7	355.3	385.7	478.8	549.1	627.0	693.5	754.3
37.5	245.1	281.2	326.8	361.0	444.6	526.3	611.8	689.7	760.0	822.7
40.0	252.7	294.5	343.9	383.8	488.3	581.4	666.9	748.6	822.7	887.3

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CANDELA TABULATION - (Cont.)

42.5	260.3	305.9	343.9	437.0	533.9	632.7	722.0	807.5	883.5	950.0
45.0	266.0	315.4	357.2	465.5	571.9	670.7	763.8	849.3	927.2	991.8
47.5	275.5	330.6	378.1	505.4	615.6	718.2	813.2	900.6	976.6	1035.5
50.0	283.1	343.9	400.9	547.2	657.4	761.9	858.8	942.4	1012.7	1069.7
52.5	290.7	336.3	461.7	581.4	695.4	801.8	894.9	972.8	1035.5	1083.0
55.0	298.3	349.6	494.0	615.6	731.5	834.1	921.5	991.8	1043.1	1083.0
57.5	307.8	366.7	524.4	644.1	760.0	856.9	934.8	991.8	1037.4	1077.3
60.0	313.5	380.0	545.3	665.0	775.2	864.5	932.9	984.2	1029.8	1067.8
62.5	323.0	399.0	568.1	685.9	788.5	864.5	921.5	972.8	1016.5	1054.5
65.0	311.6	465.5	589.0	699.2	780.9	843.6	900.6	946.2	988.0	1022.2
67.5	321.1	482.6	598.5	693.5	763.8	824.6	877.8	923.4	961.4	993.7
70.0	328.7	490.2	594.7	672.6	741.0	799.9	849.3	893.0	927.2	955.7
72.5	334.4	488.3	573.8	647.9	714.4	767.6	815.1	853.1	885.4	910.1
75.0	334.4	471.2	547.2	617.5	680.2	731.5	771.4	805.6	832.2	856.9
77.5	324.9	438.9	513.0	579.5	636.5	682.1	718.2	750.5	777.1	801.8
80.0	328.7	374.3	473.1	533.9	585.2	625.1	661.2	693.5	720.1	744.8
85.0	228.0	298.3	361.0	389.5	463.6	501.6	535.8	568.1	596.6	621.3
90.0	115.9	178.6	235.6	285.0	328.7	366.7	383.8	431.3	457.9	482.6
95.0	193.8	222.3	262.2	305.9	342.0	370.5	389.5	427.5	452.2	475.0
100.0	203.3	220.4	237.5	254.6	266.0	275.5	376.2	416.1	507.3	532.0
105.0	207.1	216.6	224.2	233.7	241.3	248.9	256.5	260.3	262.2	264.1
110.0	214.7	220.4	220.4	220.4	222.3	224.2	224.2	224.2	222.3	218.5
115.0	216.6	220.4	218.5	212.8	207.1	203.3	199.5	193.8	188.1	180.5
120.0	201.4	218.5	214.7	207.1	195.7	188.1	176.7	167.2	159.6	150.1
125.0	184.3	209.0	205.2	197.6	188.1	174.8	161.5	146.3	134.9	123.5
130.0	167.2	193.8	191.9	184.3	172.9	163.4	150.1	134.9	117.8	102.6
135.0	150.1	165.3	172.9	167.2	157.7	146.3	134.9	121.6	106.4	91.2
140.0	134.9	138.7	152.0	148.2	138.7	129.2	117.8	106.4	93.1	83.6
145.0	114.0	112.1	117.8	123.5	117.8	110.2	100.7	89.3	83.6	66.5
150.0	91.2	87.4	87.4	87.4	95.0	89.3	81.7	76.0	62.7	53.2
155.0	68.4	66.5	62.7	60.8	58.9	68.4	62.7	55.1	47.5	39.9
160.0	47.5	43.7	39.9	38.0	34.2	34.2	32.3	34.2	30.4	24.7
165.0	26.6	22.8	20.9	17.1	13.3	13.3	9.5	7.6	7.6	7.6
170.0	9.5	7.6	7.6	7.6	5.7	5.7	5.7	5.7	5.7	5.7
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	148.2	148.2	148.2	148.2	148.2	148.2	148.2
5.0	197.6	201.4	203.3	205.2	207.1	207.1	207.1
10.0	248.9	254.6	260.3	264.1	267.9	269.8	269.8
15.0	315.4	326.8	336.3	343.9	349.6	353.4	355.3
20.0	399.0	427.5	444.6	459.8	471.2	478.8	480.7
25.0	543.4	581.4	611.8	636.5	653.6	665.0	666.9
30.0	704.9	746.7	780.9	807.5	826.5	837.9	841.7
35.0	805.6	851.2	887.3	915.8	936.7	948.1	951.9
37.5	875.9	923.4	961.4	991.8	1010.8	1024.1	1027.9
40.0	944.3	989.9	1027.9	1058.3	1077.3	1088.7	1092.5
42.5	1005.1	1052.6	1088.7	1115.3	1132.4	1143.8	1145.7
45.0	1045.0	1088.7	1124.8	1149.5	1166.6	1178.0	1179.9
47.5	1086.8	1128.6	1157.1	1181.8	1193.2	1200.8	1202.7
50.0	1113.4	1145.7	1168.5	1187.5	1200.8	1208.4	1210.3
52.5	1119.1	1149.5	1172.3	1189.4	1202.7	1208.4	1210.3
55.0	1117.2	1147.6	1170.4	1185.6	1197.0	1204.6	1206.5

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CANDELA TABULATION - (Cont.)

57.5	1109.6	1138.1	1159.0	1176.1	1187.5	1193.2	1193.2
60.0	1100.1	1126.7	1147.6	1162.8	1174.2	1181.8	1183.7
62.5	1083.0	1107.7	1126.7	1141.9	1151.4	1159.0	1159.0
65.0	1050.7	1073.5	1090.6	1105.8	1113.4	1119.1	1121.0
67.5	1020.3	1039.3	1056.4	1067.8	1077.3	1083.0	1083.0
70.0	978.5	999.4	1012.7	1024.1	1029.8	1035.5	1037.4
72.5	931.0	948.1	963.3	972.8	980.4	986.1	988.0
75.0	877.8	894.9	910.1	921.5	929.1	934.8	936.7
77.5	822.7	839.8	855.0	868.3	875.9	881.6	883.5
80.0	765.7	782.8	798.0	809.4	818.9	822.7	826.5
85.0	642.2	661.2	676.4	687.8	695.4	701.1	701.1
90.0	503.5	520.6	533.9	545.3	552.9	558.6	560.5
95.0	494.0	511.1	526.3	537.7	545.3	551.0	552.9
100.0	549.1	560.5	573.8	579.5	587.1	590.9	589.0
105.0	264.1	269.8	279.3	404.7	492.1	583.3	604.2
110.0	214.7	207.1	197.6	190.0	184.3	180.5	178.6
115.0	174.8	165.3	155.8	144.4	133.0	127.3	125.4
120.0	140.6	131.1	117.8	102.6	93.1	87.4	85.5
125.0	112.1	98.8	85.5	72.2	62.7	55.1	53.2
130.0	87.4	77.9	57.0	43.7	36.1	26.6	28.5
135.0	79.8	57.0	41.8	26.6	11.4	9.5	7.6
140.0	64.6	49.4	34.2	17.1	15.2	7.6	5.7
145.0	55.1	41.8	26.6	15.2	13.3	7.6	5.7
150.0	41.8	32.3	19.0	17.1	11.4	5.7	5.7
155.0	30.4	20.9	19.0	13.3	9.5	5.7	5.7
160.0	19.0	17.1	15.2	11.4	7.6	5.7	5.7
165.0	11.4	11.4	9.5	7.6	5.7	5.7	5.7
170.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VODE_707_Z9_AW_HO_359_C1_IN COVE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	67.68	N.A.	2.20
0-30	186.89	N.A.	6.10
0-40	400.57	N.A.	13.10
0-60	1136.1	N.A.	37.20
0-80	1989.47	N.A.	65.20
0-90	2283.35	N.A.	74.80
10-90	2268.53	N.A.	74.30
20-40	332.89	N.A.	10.90
20-50	657.01	N.A.	21.50
40-70	1181.09	N.A.	38.70
60-80	853.37	N.A.	27.90
70-80	407.81	N.A.	13.40
80-90	293.89	N.A.	9.60
90-110	411.75	N.A.	13.50
90-120	535.13	N.A.	17.50
90-130	631.99	N.A.	20.70
90-150	744.53	N.A.	24.40
90-180	769.90	N.A.	25.20
110-180	358.14	N.A.	11.70
0-180	3053.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.82
10-20	52.86
20-30	119.21
30-40	213.68
40-50	324.12
50-60	411.41
60-70	445.56
70-80	407.81
80-90	293.89
90-100	228.33
100-110	183.42
110-120	123.37
120-130	96.86
130-140	69.41
140-150	43.14
150-160	20.05
160-170	5.06
170-180	0.25

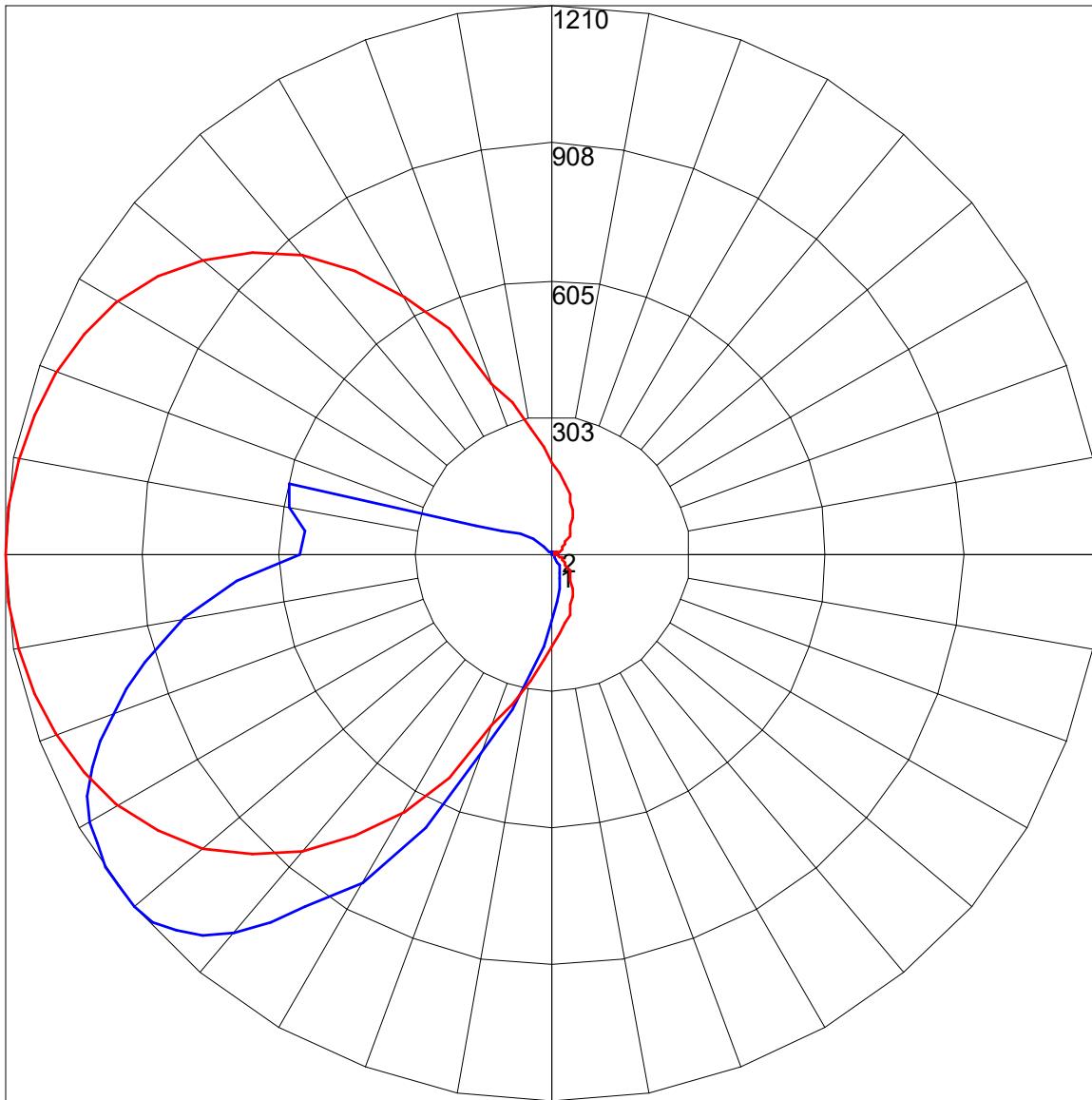
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	98	91	85	79	92	86	80	75	77	72	68	69	65	62	61	58	55	51
2	86	75	67	59	81	71	63	56	63	57	51	56	51	46	49	45	41	38
3	77	64	54	46	72	60	51	44	53	46	40	47	41	36	41	36	32	28
4	69	55	44	36	65	52	42	35	46	38	32	40	34	28	35	30	25	22
5	63	48	37	30	59	45	36	28	40	32	26	35	28	23	31	25	21	18
6	57	42	32	25	53	40	30	24	35	27	21	31	24	19	27	22	17	14
7	53	38	28	21	49	35	26	20	32	24	18	28	21	16	24	19	14	12
8	48	34	24	18	45	32	23	17	28	21	16	25	19	14	22	17	12	10
9	45	30	22	16	42	29	21	15	26	19	13	23	17	12	20	15	11	8
10	42	28	19	14	39	26	18	13	24	17	12	21	15	11	18	13	9	7

POLAR GRAPH



Maximum Candela = 1210.3 Located At Horizontal Angle = 180, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)