

**IES Report**

**ZipThree® | 707 | 85° Asymmetric , downlight only | 80 CRI | SO**

707-Z3-4-48-XX-XX-X-0-Z-SO-35-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	104
Total Lumens, 4' rail length (1219mm)	2560	2641	2695	2695
Lumens per foot (305mm)	640	660	674	674
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
CRI	82	82	82	82

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\_Z3\_SO\_35\_A1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911543 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB  
[ISSUE DATE] 12/23/2019  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-48-Z-SO-35-A1-AL  
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, 85° asymmetric lens down,  
[MORE] standard 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	2695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	26.12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 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	106049	102613	65712
55	94945	92759	57513
65	79726	77501	47279
75	63880	60852	36027
85	44952	40457	22476

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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>
<b>0</b>	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48
<b>5</b>	1231.92	1230.76	1229.60	1227.28	1223.80	1220.32	1215.68	1209.88	1202.92	1194.80
<b>10</b>	1345.60	1345.60	1343.28	1339.80	1332.84	1325.88	1316.60	1306.16	1293.40	1279.48
<b>15</b>	1419.84	1418.68	1416.36	1410.56	1403.60	1394.32	1383.88	1369.96	1353.72	1336.32
<b>20</b>	1454.64	1453.48	1450.00	1445.36	1438.40	1427.96	1416.36	1402.44	1385.04	1365.32
<b>25</b>	1448.84	1450.00	1446.52	1441.88	1434.92	1426.80	1415.20	1402.44	1383.88	1365.32
<b>30</b>	1412.88	1411.72	1409.40	1404.76	1398.96	1392.00	1381.56	1369.96	1353.72	1335.16
<b>35</b>	1342.12	1342.12	1339.80	1336.32	1331.68	1325.88	1317.76	1307.32	1293.40	1276.00
<b>40</b>	1238.88	1238.88	1236.56	1235.40	1231.92	1227.28	1221.48	1213.36	1201.76	1189.00
<b>45</b>	1110.12	1110.12	1108.96	1107.80	1105.48	1103.16	1098.52	1093.88	1084.60	1074.16
<b>50</b>	962.80	962.80	961.64	960.48	959.32	957.00	954.68	951.20	945.40	937.28
<b>55</b>	806.20	806.20	805.04	805.04	803.88	802.72	800.40	798.08	793.44	787.64
<b>60</b>	648.44	648.44	648.44	647.28	647.28	644.96	643.80	641.48	638.00	633.36
<b>65</b>	498.80	498.80	498.80	498.80	497.64	496.48	494.16	493.00	489.52	484.88
<b>70</b>	365.40	365.40	365.40	364.24	363.08	361.92	360.76	358.44	356.12	352.64
<b>75</b>	244.76	244.76	244.76	243.60	243.60	242.44	240.12	238.96	236.64	233.16
<b>80</b>	142.68	142.68	141.52	141.52	140.36	140.36	139.20	136.88	134.56	132.24
<b>85</b>	58.00	58.00	58.00	56.84	56.84	56.84	55.68	54.52	53.36	52.20
<b>90</b>	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>
<b>0</b>	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48
<b>5</b>	1187.84	1178.56	1169.28	1158.84	1148.40	1137.96	1126.36	1113.60	1102.00	1090.40
<b>10</b>	1263.24	1245.84	1227.28	1207.56	1186.68	1163.48	1139.12	1113.60	1089.24	1061.40
<b>15</b>	1315.44	1291.08	1265.56	1237.72	1207.56	1173.92	1139.12	1102.00	1063.72	1024.28
<b>20</b>	1340.96	1314.28	1284.12	1250.48	1213.36	1170.44	1126.36	1079.96	1028.92	977.88
<b>25</b>	1340.96	1311.96	1279.48	1242.36	1199.44	1151.88	1099.68	1044.00	982.52	919.88
<b>30</b>	1311.96	1284.12	1251.64	1213.36	1168.12	1115.92	1059.08	996.44	926.84	853.76
<b>35</b>	1256.28	1229.60	1199.44	1162.32	1115.92	1061.40	1002.24	934.96	858.40	779.52
<b>40</b>	1171.60	1148.40	1120.56	1083.44	1040.52	988.32	926.84	858.40	779.52	697.16
<b>45</b>	1060.24	1041.68	1017.32	984.84	945.40	894.36	836.36	767.92	687.88	609.00
<b>50</b>	926.84	910.60	889.72	863.04	828.24	783.00	727.32	664.68	592.76	516.20
<b>55</b>	778.36	766.76	749.36	727.32	697.16	657.72	610.16	552.16	488.36	423.40
<b>60</b>	626.40	615.96	603.20	584.64	560.28	527.80	487.20	440.80	385.12	336.40
<b>65</b>	480.24	472.12	460.52	446.60	426.88	402.52	371.20	335.24	295.80	252.88
<b>70</b>	348.00	342.20	332.92	322.48	308.56	290.00	266.80	240.12	211.12	180.96
<b>75</b>	229.68	225.04	219.24	211.12	201.84	189.08	174.00	156.60	138.04	119.48
<b>80</b>	129.92	126.44	122.96	118.32	112.52	105.56	97.44	87.00	76.56	67.28
<b>85</b>	51.04	48.72	47.56	45.24	42.92	39.44	37.12	33.64	29.00	25.52
<b>90</b>	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>
<b>0</b>	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48
<b>5</b>	1077.64	1066.04	1054.44	1042.84	1031.24	1020.80	1011.52	1001.08	992.96	986.00
<b>10</b>	1035.88	1010.36	983.68	959.32	934.96	910.60	888.56	867.68	850.28	832.88
<b>15</b>	983.68	944.24	903.64	866.52	828.24	793.44	760.96	731.96	705.28	680.92
<b>20</b>	923.36	871.16	818.96	769.08	720.36	677.44	638.00	600.88	569.56	541.72
<b>25</b>	857.24	791.12	728.48	671.64	614.80	566.08	523.16	483.72	451.24	422.24
<b>30</b>	781.84	708.76	638.00	575.36	515.04	464.00	421.08	382.80	351.48	324.80
<b>35</b>	701.80	621.76	548.68	483.72	423.40	375.84	335.24	300.44	271.44	249.40

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	615.96	535.92	462.84	400.20	343.36	300.44	264.48	233.16	211.12	193.72
<b>45</b>	528.96	452.40	382.80	325.96	274.92	237.80	207.64	183.28	165.88	153.12
<b>50</b>	441.96	372.36	310.88	261.00	219.24	187.92	164.72	146.16	132.24	122.96
<b>55</b>	360.76	300.44	249.40	207.64	174.00	149.64	131.08	117.16	106.72	99.76
<b>60</b>	284.20	234.32	194.88	162.40	135.72	117.16	103.24	92.80	85.84	80.04
<b>65</b>	213.44	177.48	147.32	122.96	104.40	90.48	80.04	73.08	67.28	62.64
<b>70</b>	153.12	127.60	106.72	89.32	76.56	67.28	60.32	54.52	49.88	47.56
<b>75</b>	102.08	85.84	71.92	60.32	52.20	46.40	41.76	38.28	34.80	33.64
<b>80</b>	56.84	48.72	40.60	35.96	31.32	27.84	25.52	23.20	22.04	20.88
<b>85</b>	22.04	19.72	17.40	15.08	13.92	12.76	11.60	10.44	10.44	9.28
<b>90</b>	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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
<b>0</b>	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48	1105.48
<b>5</b>	979.04	973.24	967.44	963.96	961.64	959.32	959.32
<b>10</b>	817.80	806.20	795.76	787.64	781.84	777.20	776.04
<b>15</b>	660.04	643.80	629.88	617.12	610.16	605.52	603.20
<b>20</b>	517.36	498.80	482.56	470.96	461.68	457.04	454.72
<b>25</b>	397.88	380.48	364.24	352.64	344.52	339.88	338.72
<b>30</b>	303.92	286.52	273.76	263.32	257.52	252.88	251.72
<b>35</b>	232.00	218.08	207.64	199.52	194.88	191.40	191.40
<b>40</b>	179.80	169.36	162.40	156.60	153.12	150.80	149.64
<b>45</b>	142.68	135.72	129.92	125.28	122.96	121.80	120.64
<b>50</b>	114.84	110.20	105.56	103.24	102.08	100.92	99.76
<b>55</b>	95.12	90.48	88.16	85.84	84.68	84.68	83.52
<b>60</b>	76.56	73.08	71.92	69.60	69.60	68.44	68.44
<b>65</b>	60.32	58.00	56.84	55.68	54.52	54.52	54.52
<b>70</b>	45.24	44.08	42.92	41.76	40.60	40.60	40.60
<b>75</b>	31.32	30.16	30.16	29.00	29.00	29.00	29.00
<b>80</b>	19.72	19.72	18.56	18.56	18.56	18.56	18.56
<b>85</b>	9.28	9.28	9.28	9.28	9.28	9.28	9.28
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	395.99	N.A.	14.70
0-30	824.98	N.A.	30.60
0-40	1324.79	N.A.	49.20
0-60	2228.36	N.A.	82.70
0-80	2656.42	N.A.	98.60
0-90	2694.9	N.A.	100.00
10-90	2590.81	N.A.	96.10
20-40	928.79	N.A.	34.50
20-50	1421.76	N.A.	52.80
40-70	1184.86	N.A.	44.00
60-80	428.06	N.A.	15.90
70-80	146.78	N.A.	5.40
80-90	38.48	N.A.	1.40
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	2694.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.09
10-20	291.90
20-30	428.99
30-40	499.80
40-50	492.97
50-60	410.61
60-70	281.28
70-80	146.78
80-90	38.48
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

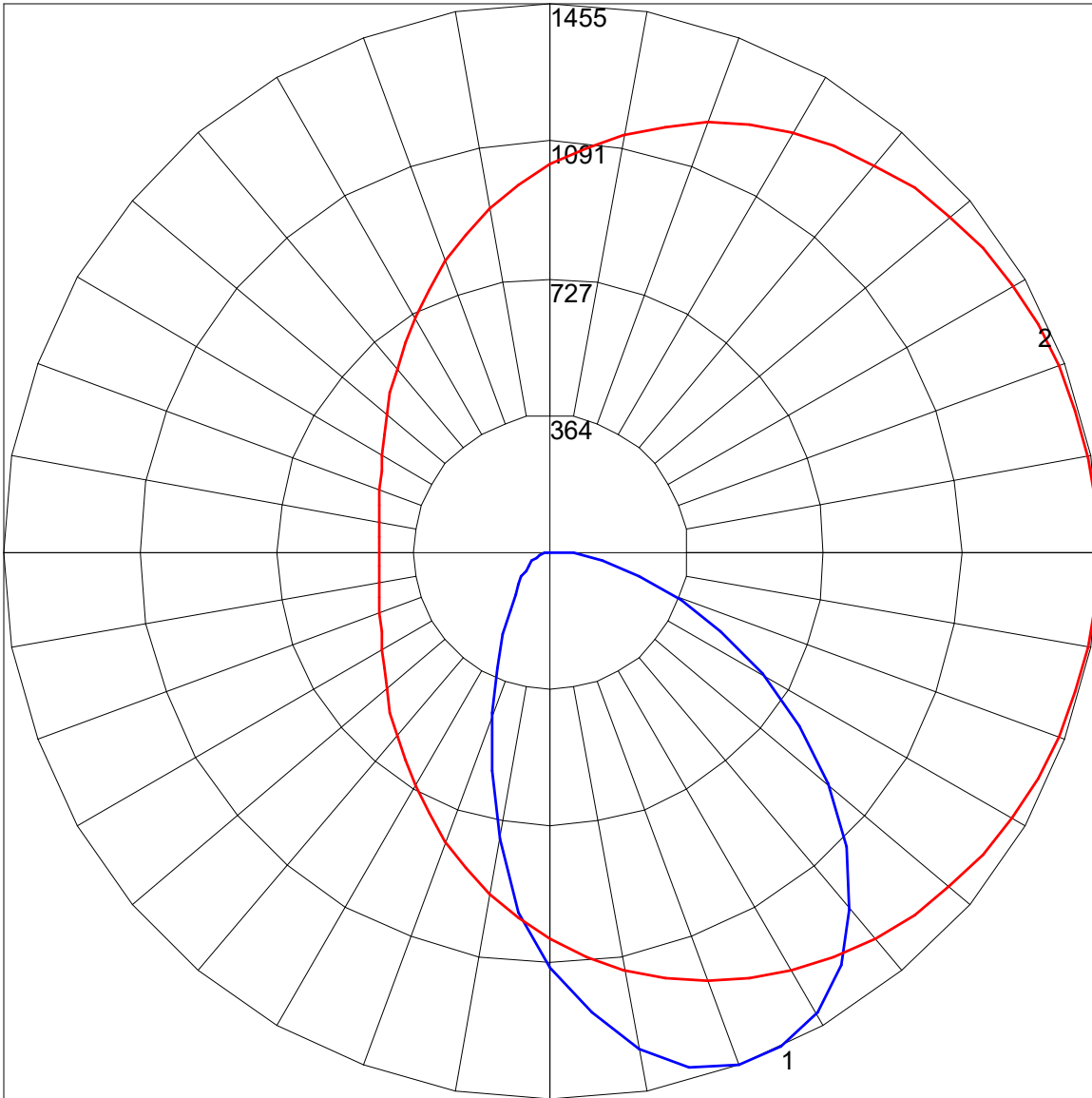
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61	
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36	
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32	
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29	
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	27	

POLAR GRAPH



Maximum Candela = 1454.64 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)