

**IES Report**

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

707-Z3-4-48-XX-XX-X-0-Z-SO-35-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	79	79
Total Lumens, 4' rail length (1219mm)	1941	2002	2043	2043
Lumens per foot (305mm)	485	501	511	511
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\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911544 (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-BL  
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, 85° asymmetric lens down,  
[MORE] standard output, black anodized finish  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2043
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	26.12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.26
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	83332	81226	50753
55	72677	71721	43579
65	59887	59145	35042
75	46321	45110	26339
85	34164	30568	16183

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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>	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80
<b>5</b>	990.64	990.64	988.32	987.16	983.68	980.20	975.56	969.76	963.96	957.00
<b>10</b>	1095.04	1093.88	1092.72	1088.08	1083.44	1077.64	1068.36	1059.08	1047.48	1034.72
<b>15</b>	1160.00	1158.84	1156.52	1151.88	1146.08	1137.96	1128.68	1117.08	1103.16	1086.92
<b>20</b>	1189.00	1187.84	1185.52	1182.04	1175.08	1166.96	1156.52	1144.92	1131.00	1113.60
<b>25</b>	1180.88	1179.72	1177.40	1173.92	1169.28	1162.32	1153.04	1141.44	1127.52	1111.28
<b>30</b>	1141.44	1140.28	1139.12	1136.80	1133.32	1127.52	1119.40	1110.12	1098.52	1083.44
<b>35</b>	1074.16	1074.16	1073.00	1070.68	1068.36	1063.72	1057.92	1050.96	1041.68	1028.92
<b>40</b>	982.52	982.52	981.36	980.20	979.04	975.56	972.08	966.28	959.32	950.04
<b>45</b>	872.32	871.16	871.16	871.16	870.00	868.84	866.52	863.04	857.24	850.28
<b>50</b>	747.04	747.04	747.04	747.04	745.88	745.88	744.72	742.40	738.92	733.12
<b>55</b>	617.12	617.12	617.12	617.12	617.12	618.28	617.12	615.96	613.64	609.00
<b>60</b>	489.52	489.52	490.68	490.68	490.68	490.68	490.68	489.52	488.36	484.88
<b>65</b>	374.68	374.68	374.68	374.68	374.68	374.68	374.68	373.52	372.36	370.04
<b>70</b>	267.96	267.96	267.96	267.96	267.96	267.96	267.96	266.80	265.64	263.32
<b>75</b>	177.48	177.48	177.48	176.32	176.32	176.32	176.32	175.16	174.00	172.84
<b>80</b>	102.08	102.08	102.08	102.08	102.08	100.92	100.92	99.76	98.60	97.44
<b>85</b>	44.08	42.92	42.92	42.92	42.92	42.92	41.76	41.76	40.60	39.44
<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>	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80
<b>5</b>	950.04	941.92	932.64	923.36	914.08	903.64	893.20	882.76	872.32	860.72
<b>10</b>	1020.80	1004.56	987.16	968.60	948.88	928.00	905.96	883.92	859.56	837.52
<b>15</b>	1068.36	1047.48	1024.28	997.60	970.92	939.60	907.12	874.64	838.68	803.88
<b>20</b>	1092.72	1069.52	1041.68	1011.52	977.88	939.60	897.84	854.92	810.84	764.44
<b>25</b>	1090.40	1066.04	1037.04	1004.56	967.44	924.52	876.96	825.92	772.56	716.88
<b>30</b>	1063.72	1041.68	1012.68	979.04	940.76	895.52	842.16	786.48	726.16	660.04
<b>35</b>	1012.68	992.96	966.28	932.64	895.52	850.28	794.60	734.28	669.32	599.72
<b>40</b>	936.12	917.56	895.52	866.52	829.40	786.48	731.96	671.64	604.36	532.44
<b>45</b>	839.84	824.76	805.04	780.68	747.04	704.12	654.24	596.24	531.28	460.52
<b>50</b>	726.16	714.56	698.32	675.12	646.12	609.00	564.92	511.56	448.92	386.28
<b>55</b>	603.20	595.08	581.16	562.60	538.24	506.92	466.32	421.08	370.04	316.68
<b>60</b>	480.24	472.12	462.84	447.76	428.04	401.36	370.04	332.92	291.16	248.24
<b>65</b>	366.56	360.76	352.64	341.04	325.96	305.08	279.56	250.56	219.24	184.44
<b>70</b>	261.00	256.36	250.56	242.44	230.84	216.92	198.36	177.48	155.44	131.08
<b>75</b>	170.52	167.04	163.56	157.76	149.64	140.36	128.76	114.84	100.92	84.68
<b>80</b>	96.28	93.96	90.48	87.00	83.52	77.72	70.76	63.80	55.68	47.56
<b>85</b>	38.28	37.12	35.96	34.80	32.48	30.16	26.68	24.36	20.88	18.56
<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>	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80	875.80
<b>5</b>	850.28	838.68	828.24	817.80	807.36	798.08	789.96	781.84	773.72	766.76
<b>10</b>	813.16	788.80	766.76	743.56	721.52	701.80	682.08	663.52	647.28	632.20
<b>15</b>	769.08	731.96	697.16	663.52	629.88	599.72	571.88	545.20	522.00	499.96
<b>20</b>	718.04	669.32	624.08	581.16	538.24	499.96	465.16	432.68	404.84	380.48
<b>25</b>	658.88	602.04	549.84	498.80	448.92	406.00	367.72	334.08	305.08	279.56
<b>30</b>	597.40	533.60	474.44	418.76	367.72	321.32	284.20	250.56	222.72	200.68
<b>35</b>	531.28	464.00	392.08	346.84	295.80	251.72	215.76	185.60	162.40	142.68

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	462.84	390.92	335.24	278.40	233.16	193.72	162.40	136.88	117.16	100.92
<b>45</b>	389.76	331.76	272.60	222.72	179.80	147.32	120.64	99.76	84.68	73.08
<b>50</b>	329.44	270.28	218.08	175.16	139.20	111.36	95.12	74.24	62.64	54.52
<b>55</b>	264.48	214.60	170.52	135.72	106.72	85.84	69.60	56.84	47.56	40.60
<b>60</b>	204.16	164.72	132.24	104.40	82.36	64.96	53.36	44.08	37.12	32.48
<b>65</b>	153.12	122.96	99.76	78.88	61.48	49.88	40.60	33.64	29.00	24.36
<b>70</b>	109.04	88.16	70.76	55.68	45.24	35.96	30.16	24.36	20.88	18.56
<b>75</b>	70.76	58.00	46.40	37.12	30.16	25.52	20.88	17.40	15.08	13.92
<b>80</b>	39.44	32.48	26.68	22.04	18.56	15.08	12.76	10.44	9.28	8.12
<b>85</b>	15.08	12.76	10.44	9.28	8.12	6.96	5.80	5.80	4.64	4.64
<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>	875.80	875.80	875.80	875.80	875.80	875.80	875.80
<b>5</b>	760.96	755.16	750.52	748.20	744.72	743.56	743.56
<b>10</b>	619.44	607.84	598.56	592.76	586.96	583.48	583.48
<b>15</b>	481.40	466.32	453.56	444.28	437.32	432.68	431.52
<b>20</b>	358.44	342.20	328.28	317.84	309.72	305.08	303.92
<b>25</b>	258.68	242.44	229.68	219.24	212.28	208.80	206.48
<b>30</b>	182.12	168.20	156.60	148.48	142.68	139.20	138.04
<b>35</b>	127.60	116.00	106.72	99.76	96.28	93.96	92.80
<b>40</b>	89.32	80.04	73.08	68.44	64.96	63.80	62.64
<b>45</b>	63.80	56.84	52.20	48.72	46.40	45.24	44.08
<b>50</b>	47.56	42.92	39.44	35.96	34.80	33.64	33.64
<b>55</b>	35.96	32.48	30.16	27.84	26.68	25.52	25.52
<b>60</b>	27.84	25.52	23.20	22.04	20.88	20.88	20.88
<b>65</b>	22.04	19.72	18.56	17.40	17.40	16.24	16.24
<b>70</b>	16.24	15.08	13.92	13.92	12.76	12.76	12.76
<b>75</b>	11.60	11.60	10.44	10.44	9.28	9.28	9.28
<b>80</b>	8.12	6.96	6.96	6.96	5.80	5.80	5.80
<b>85</b>	3.48	3.48	3.48	3.48	3.48	3.48	3.48
<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	312.42	N.A.	15.30
0-30	647.54	N.A.	31.70
0-40	1032.67	N.A.	50.50
0-60	1709.18	N.A.	83.70
0-80	2016.03	N.A.	98.70
0-90	2043.05	N.A.	100.00
10-90	1960.71	N.A.	96.00
20-40	720.26	N.A.	35.30
20-50	1093.24	N.A.	53.50
40-70	879.96	N.A.	43.10
60-80	306.85	N.A.	15.00
70-80	103.40	N.A.	5.10
80-90	27.02	N.A.	1.30
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	2043.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	82.35
10-20	230.07
20-30	335.12
30-40	385.13
40-50	372.98
50-60	303.53
60-70	203.45
70-80	103.40
80-90	27.02
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

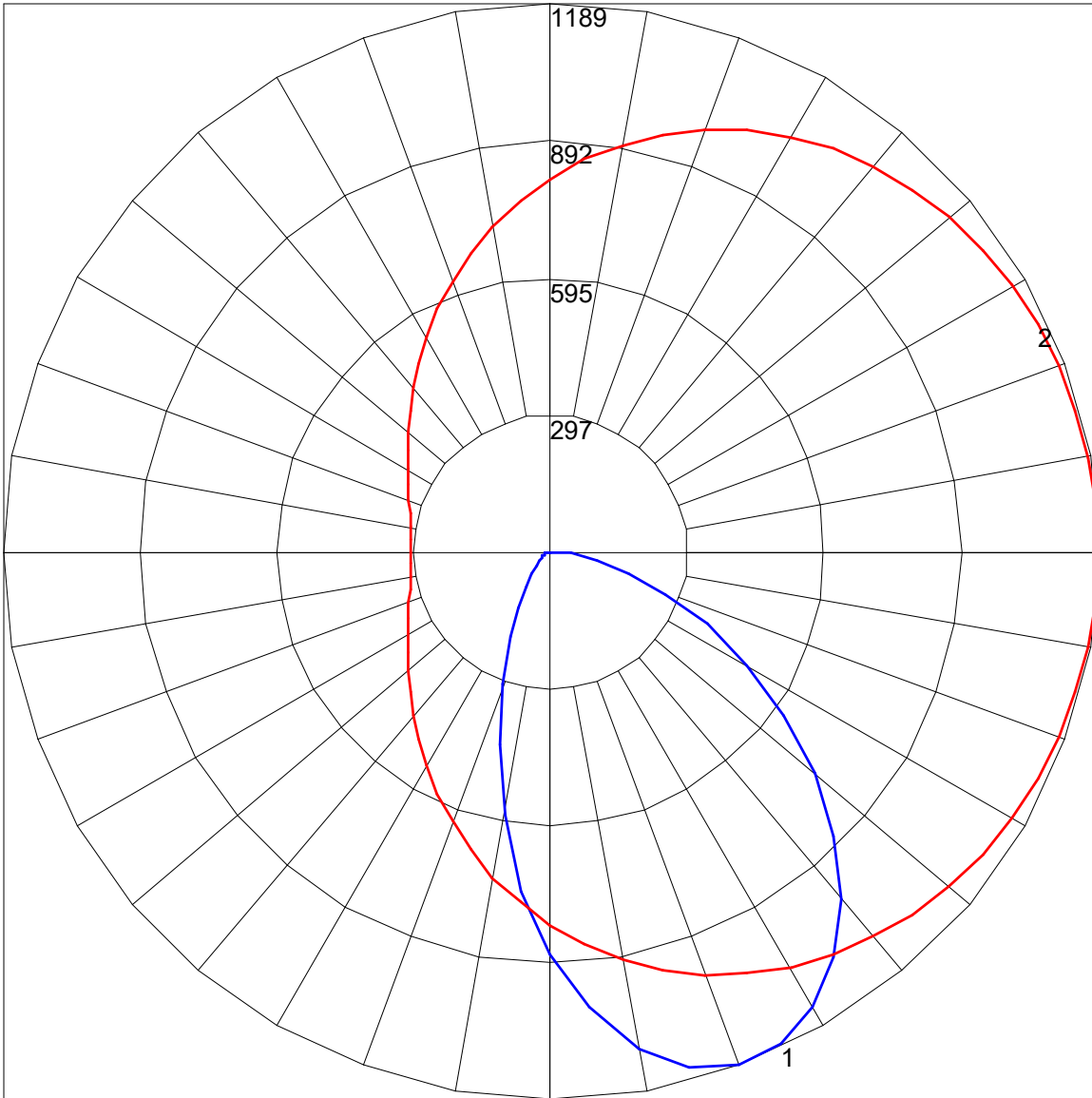
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1189 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.)