

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 80 CRI | SO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-SO-35-U1S2-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	98	100
Total Lumens, 4' rail length (1219mm)	4764	4914	5014	5115
Lumens per foot (305mm)	1191	1228	1254	1279
Lumens per foot UP (305mm)	813	838	855	873
Lumens per foot DOWN (305mm)	378	390	398	406
Input Power (W), 4' rail length (1219mm)	51.2	51.2	51.2	51.2
Watts per foot (305mm)	12.9	12.9	12.9	12.9
CRI	85	85	85	85

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](http://vode.com).



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_SO\_35\_U1S2\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L031805809 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 4/12/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-CC-Z-SO-35-U1S2-BL  
[LUMINAIRE] ZipThree Suspended, 48", 3500K, 80 CRI, zipper board,  
[MORE] symmetric lens up/60° symmetric lens down, 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	5014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	51.23
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.02 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2027	3838	6783
55	922	1892	3689
65	481	972	1966
75	261	554	1141
85	150	256	544

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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>0.0</b>	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64
<b>1.0</b>	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48
<b>3.0</b>	1272.52	1272.52	1272.52	1272.52	1272.52	1273.68	1273.68	1273.68	1274.84	1274.84
<b>5.0</b>	1258.60	1258.60	1258.60	1258.60	1259.76	1260.92	1262.08	1263.24	1264.40	1265.56
<b>7.0</b>	1236.56	1236.56	1236.56	1237.72	1240.04	1241.20	1243.52	1245.84	1248.16	1250.48
<b>9.0</b>	1206.40	1206.40	1207.56	1209.88	1212.20	1215.68	1219.16	1222.64	1226.12	1230.76
<b>11.0</b>	1169.28	1169.28	1171.60	1173.92	1177.40	1182.04	1187.84	1193.64	1199.44	1205.24
<b>13.0</b>	1122.88	1124.04	1126.36	1129.84	1135.64	1142.60	1149.56	1157.68	1165.80	1175.08
<b>15.0</b>	1069.52	1070.68	1074.16	1078.80	1086.92	1095.04	1105.48	1115.92	1127.52	1139.12
<b>17.0</b>	1008.04	1009.20	1013.84	1020.80	1028.92	1040.52	1053.28	1067.20	1082.28	1097.36
<b>19.5</b>	922.20	924.52	929.16	938.44	950.04	963.96	980.20	998.76	1018.48	1038.20
<b>22.5</b>	808.52	810.84	817.80	828.24	843.32	860.72	881.60	904.80	930.32	955.84
<b>25.5</b>	689.04	691.36	699.48	712.24	729.64	750.52	774.88	802.72	832.88	863.04
<b>29.0</b>	552.16	554.48	562.60	576.52	595.08	618.28	646.12	677.44	711.08	745.88
<b>33.0</b>	409.48	412.96	419.92	432.68	451.24	474.44	502.28	534.76	570.72	609.00
<b>37.5</b>	280.72	281.88	288.84	300.44	316.68	336.40	360.76	390.92	424.56	460.52
<b>42.5</b>	176.32	178.64	183.28	191.40	203.00	219.24	237.80	262.16	290.00	320.16
<b>47.5</b>	110.20	111.36	114.84	120.64	128.76	139.20	153.12	170.52	190.24	212.28
<b>55.0</b>	54.52	55.68	56.84	60.32	63.80	69.60	76.56	85.84	96.28	109.04
<b>65.0</b>	22.04	22.04	23.20	24.36	25.52	27.84	31.32	34.80	38.28	42.92
<b>75.0</b>	8.12	9.28	9.28	9.28	10.44	10.44	11.60	12.76	13.92	16.24
<b>85.0</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	3.48	3.48
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	26.68	26.68	26.68	27.84	27.84	27.84	27.84	29.00	29.00	30.16
<b>100.0</b>	73.08	73.08	73.08	74.24	75.40	75.40	77.72	78.88	80.04	82.36
<b>105.0</b>	132.24	132.24	132.24	133.40	135.72	138.04	140.36	142.68	146.16	148.48
<b>110.0</b>	206.48	206.48	207.64	209.96	212.28	215.76	219.24	223.88	227.36	232.00
<b>115.0</b>	298.12	298.12	300.44	302.76	306.24	309.72	314.36	320.16	325.96	331.76
<b>120.0</b>	406.00	406.00	408.32	410.64	415.28	419.92	424.56	431.52	438.48	445.44
<b>125.0</b>	527.80	528.96	530.12	533.60	538.24	542.88	548.68	555.64	563.76	571.88
<b>130.0</b>	660.04	661.20	662.36	665.84	670.48	675.12	682.08	689.04	696.00	704.12
<b>135.0</b>	795.76	796.92	798.08	801.56	805.04	809.68	815.48	821.28	828.24	834.04
<b>140.0</b>	925.68	926.84	928.00	930.32	933.80	937.28	941.92	946.56	951.20	955.84
<b>145.0</b>	1042.84	1042.84	1044.00	1045.16	1047.48	1049.80	1053.28	1056.76	1059.08	1062.56
<b>150.0</b>	1141.44	1141.44	1141.44	1142.60	1143.76	1146.08	1147.24	1149.56	1150.72	1153.04
<b>155.0</b>	1219.16	1219.16	1220.32	1220.32	1221.48	1222.64	1223.80	1224.96	1226.12	1227.28
<b>160.0</b>	1281.80	1281.80	1281.80	1281.80	1282.96	1282.96	1284.12	1284.12	1285.28	1286.44
<b>165.0</b>	1329.36	1329.36	1329.36	1329.36	1329.36	1330.52	1330.52	1331.68	1331.68	1332.84
<b>170.0</b>	1363.00	1363.00	1364.16	1364.16	1364.16	1364.16	1365.32	1365.32	1365.32	1366.48
<b>175.0</b>	1385.04	1385.04	1385.04	1386.20	1386.20	1386.20	1386.20	1386.20	1386.20	1386.20
<b>180.0</b>	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16

**Vert. Horizontal Angles**

<b>Angles</b>	<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>
<b>0.0</b>	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64	1280.64
<b>1.0</b>	1279.48	1279.48	1279.48	1279.48	1279.48	1280.64	1280.64	1280.64	1280.64
<b>3.0</b>	1276.00	1276.00	1276.00	1277.16	1277.16	1277.16	1277.16	1277.16	1277.16
<b>5.0</b>	1266.72	1267.88	1269.04	1270.20	1271.36	1271.36	1272.52	1272.52	1272.52
<b>7.0</b>	1252.80	1255.12	1257.44	1259.76	1260.92	1262.08	1263.24	1264.40	1264.40
<b>9.0</b>	1234.24	1238.88	1242.36	1245.84	1248.16	1250.48	1252.80	1253.96	1253.96
<b>11.0</b>	1212.20	1218.00	1222.64	1228.44	1231.92	1235.40	1237.72	1238.88	1240.04
<b>13.0</b>	1183.20	1192.48	1199.44	1206.40	1212.20	1216.84	1220.32	1222.64	1222.64
<b>15.0</b>	1150.72	1161.16	1171.60	1180.88	1187.84	1194.80	1198.28	1201.76	1201.76

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1112.44	1126.36	1139.12	1150.72	1160.00	1168.12	1173.92	1177.40	1178.56
<b>19.5</b>	1056.76	1075.32	1092.72	1106.64	1119.40	1129.84	1136.80	1141.44	1142.60
<b>22.5</b>	980.20	1004.56	1025.44	1045.16	1061.40	1074.16	1083.44	1089.24	1090.40
<b>25.5</b>	893.20	923.36	950.04	974.40	994.12	1009.20	1020.80	1026.60	1028.92
<b>29.0</b>	783.00	817.80	850.28	879.28	902.48	921.04	933.80	941.92	944.24
<b>33.0</b>	649.60	687.88	723.84	756.32	783.00	803.88	818.96	827.08	830.56
<b>37.5</b>	501.12	539.40	576.52	610.16	638.00	660.04	675.12	684.40	686.72
<b>42.5</b>	353.80	387.44	421.08	450.08	475.60	496.48	510.40	518.52	522.00
<b>47.5</b>	237.80	264.48	288.84	312.04	334.08	349.16	360.76	367.72	370.04
<b>55.0</b>	121.80	136.88	150.80	163.56	175.16	184.44	191.40	196.04	197.20
<b>65.0</b>	48.72	54.52	59.16	64.96	68.44	73.08	75.40	77.72	77.72
<b>75.0</b>	17.40	19.72	20.88	23.20	24.36	25.52	26.68	27.84	27.84
<b>85.0</b>	3.48	3.48	3.48	4.64	4.64	4.64	4.64	4.64	4.64
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	30.16	31.32	31.32	31.32	31.32	32.48	31.32	31.32	31.32
<b>100.0</b>	83.52	84.68	87.00	88.16	89.32	90.48	90.48	90.48	90.48
<b>105.0</b>	151.96	155.44	158.92	161.24	163.56	164.72	165.88	167.04	167.04
<b>110.0</b>	237.80	242.44	245.92	250.56	254.04	256.36	257.52	258.68	258.68
<b>115.0</b>	337.56	344.52	349.16	354.96	358.44	361.92	364.24	365.40	365.40
<b>120.0</b>	452.40	459.36	466.32	472.12	476.76	480.24	482.56	483.72	484.88
<b>125.0</b>	578.84	586.96	593.92	599.72	603.20	607.84	610.16	612.48	613.64
<b>130.0</b>	711.08	718.04	723.84	729.64	734.28	737.76	741.24	743.56	743.56
<b>135.0</b>	841.00	846.80	851.44	856.08	859.56	863.04	866.52	868.84	868.84
<b>140.0</b>	960.48	965.12	968.60	972.08	975.56	977.88	981.36	982.52	983.68
<b>145.0</b>	1066.04	1068.36	1071.84	1074.16	1076.48	1079.96	1082.28	1083.44	1084.60
<b>150.0</b>	1155.36	1156.52	1158.84	1161.16	1163.48	1165.80	1168.12	1169.28	1169.28
<b>155.0</b>	1228.44	1229.60	1231.92	1233.08	1235.40	1236.56	1238.88	1240.04	1240.04
<b>160.0</b>	1287.60	1288.76	1289.92	1292.24	1293.40	1294.56	1295.72	1296.88	1296.88
<b>165.0</b>	1334.00	1335.16	1335.16	1336.32	1337.48	1338.64	1339.80	1339.80	1339.80
<b>170.0</b>	1366.48	1367.64	1367.64	1368.80	1368.80	1368.80	1369.96	1369.96	1369.96
<b>175.0</b>	1386.20	1387.36	1387.36	1387.36	1387.36	1387.36	1387.36	1387.36	1387.36
<b>180.0</b>	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	418.01	N.A.	8.30
0-30	797.94	N.A.	15.90
0-40	1107.03	N.A.	22.10
0-60	1469.59	N.A.	29.30
0-80	1580.48	N.A.	31.50
0-90	1592.39	N.A.	31.80
10-90	1495.26	N.A.	29.80
20-40	689.02	N.A.	13.70
20-50	940.91	N.A.	18.80
40-70	440.60	N.A.	8.80
60-80	110.89	N.A.	2.20
70-80	32.85	N.A.	0.70
80-90	11.92	N.A.	0.20
90-110	200.20	N.A.	4.00
90-120	532.26	N.A.	10.60
90-130	1044.15	N.A.	20.80
90-150	2348.57	N.A.	46.80
90-180	3421.85	N.A.	68.20
110-180	3221.65	N.A.	64.20
0-180	5014.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	97.13
10-20	320.87
20-30	379.94
30-40	309.08
40-50	251.89
50-60	110.67
60-70	78.04
70-80	32.85
80-90	11.92
90-100	38.42
100-110	161.78
110-120	332.07
120-130	511.88
130-140	641.40
140-150	663.02
150-160	565.36
160-170	376.21
170-180	131.71

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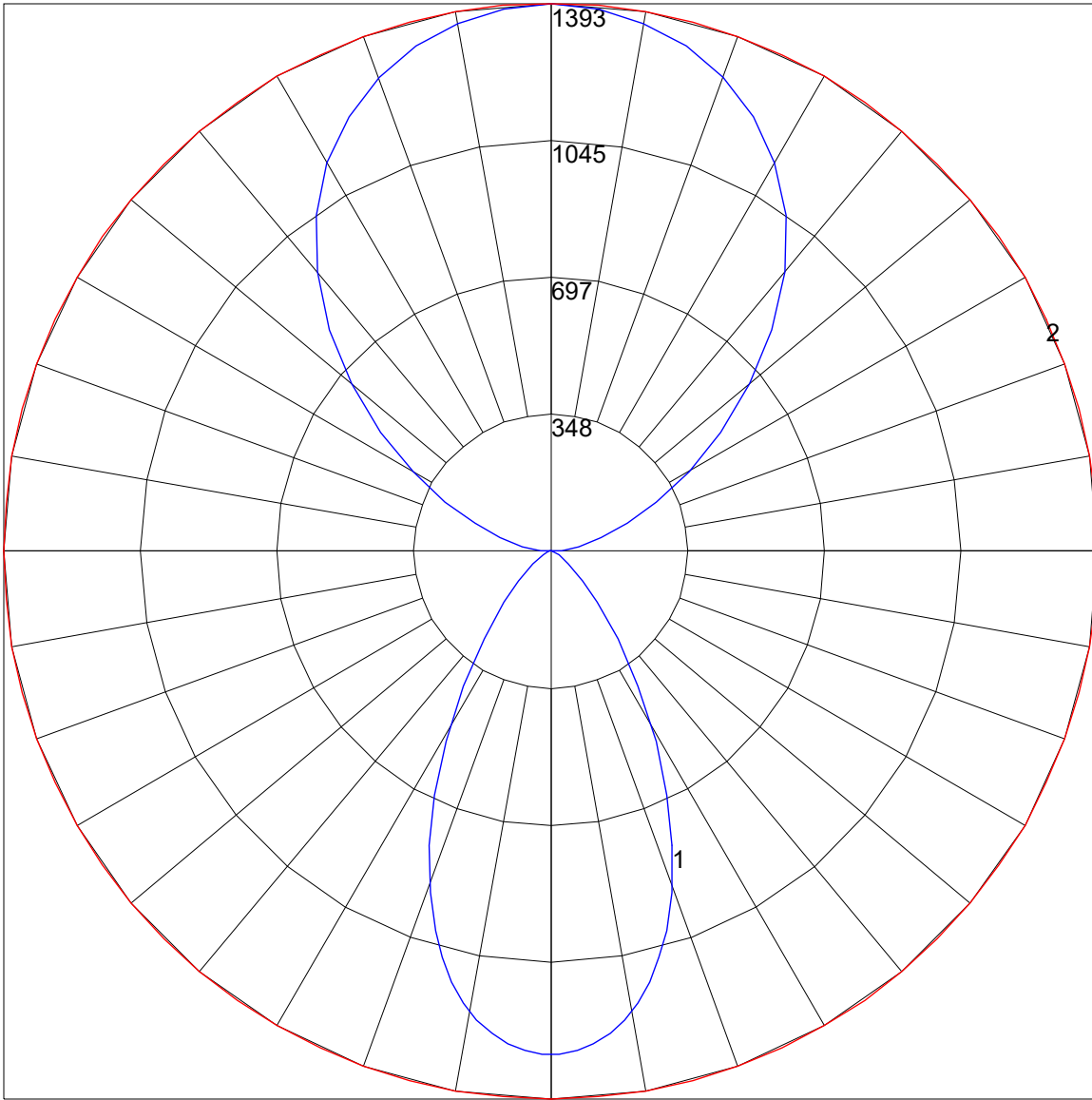
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	95	91	87	84	85	82	79	76	65	63	62	50	49	48	36	35	35	28
2	87	80	75	70	78	73	68	64	58	55	53	45	43	41	33	32	31	25
3	80	71	65	60	72	65	59	55	52	48	45	41	38	36	30	29	27	23
4	73	64	57	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20
5	68	57	50	45	61	52	46	41	43	38	35	34	31	28	25	24	22	19
6	63	52	44	39	57	47	41	36	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	32	35	31	27	28	25	23	22	20	18	15
8	54	43	36	31	49	39	33	29	33	28	25	26	23	21	20	18	17	14
9	51	39	32	28	46	36	30	26	30	26	22	24	21	19	19	17	15	13
10	47	36	30	25	43	33	27	23	28	23	20	23	19	17	18	16	14	12

POLAR GRAPH



Maximum Candela = 1393.16 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)