

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | 40° Symmetric, down | 80 CRI | SO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-SO-35-U1S1-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	95
Total Lumens, 4' rail length (1219mm)	4498	4640	4734	4829
Lumens per foot (305mm)	1124	1160	1184	1207
Lumens per foot UP (305mm)	821	847	864	882
Lumens per foot DOWN (305mm)	303	313	319	326
Input Power (W), 4' rail length (1219mm)	51.3	51.3	51.3	51.3
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\_U1S1\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L031805807R01 (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-U1S1-BL  
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 80 CRI, zipper board,  
 [MORE] symmetric lens up/40° 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	4734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	51.34
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	673	1823	7321
55	294	725	3603
65	177	368	1673
75	112	237	903
85	75	85	408

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>	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48
<b>1.0</b>	1277.16	1277.16	1278.32	1278.32	1278.32	1278.32	1278.32	1278.32	1278.32	1278.32
<b>3.0</b>	1265.56	1265.56	1266.72	1266.72	1267.88	1267.88	1269.04	1269.04	1270.20	1271.36
<b>5.0</b>	1241.20	1241.20	1242.36	1243.52	1244.68	1247.00	1249.32	1251.64	1255.12	1257.44
<b>7.0</b>	1202.92	1204.08	1205.24	1207.56	1209.88	1214.52	1219.16	1223.80	1229.60	1235.40
<b>9.0</b>	1151.88	1151.88	1154.20	1158.84	1164.64	1171.60	1178.56	1187.84	1197.12	1206.40
<b>11.0</b>	1086.92	1088.08	1091.56	1097.36	1106.64	1115.92	1127.52	1140.28	1154.20	1168.12
<b>13.0</b>	1008.04	1010.36	1015.00	1023.12	1034.72	1048.64	1064.88	1082.28	1102.00	1121.72
<b>15.0</b>	922.20	924.52	931.48	940.76	955.84	974.40	994.12	1017.32	1042.84	1068.36
<b>17.0</b>	825.92	829.40	836.36	849.12	866.52	888.56	914.08	943.08	974.40	1006.88
<b>19.5</b>	702.96	706.44	714.56	729.64	750.52	776.04	806.20	842.16	881.60	922.20
<b>22.5</b>	556.80	560.28	569.56	585.80	609.00	636.84	672.80	713.40	758.64	808.52
<b>25.5</b>	422.24	425.72	435.00	451.24	474.44	503.44	539.40	583.48	633.36	687.88
<b>29.0</b>	293.48	296.96	305.08	319.00	338.72	365.40	400.20	441.96	490.68	548.68
<b>33.0</b>	186.76	189.08	194.88	205.32	221.56	242.44	270.28	306.24	350.32	401.36
<b>37.5</b>	109.04	110.20	114.84	121.80	132.24	147.32	165.88	191.40	225.04	265.64
<b>42.5</b>	60.32	61.48	63.80	67.28	74.24	82.36	95.12	111.36	132.24	160.08
<b>47.5</b>	34.80	34.80	35.96	38.28	41.76	47.56	54.52	64.96	76.56	92.80
<b>55.0</b>	17.40	17.40	17.40	18.56	20.88	22.04	25.52	29.00	34.80	41.76
<b>65.0</b>	8.12	8.12	8.12	8.12	9.28	10.44	11.60	12.76	13.92	16.24
<b>75.0</b>	3.48	3.48	3.48	3.48	3.48	4.64	4.64	5.80	5.80	6.96
<b>85.0</b>	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>90.0</b>	0.00	0.00	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>95.0</b>	27.84	27.84	29.00	29.00	29.00	29.00	29.00	30.16	30.16	31.32
<b>100.0</b>	75.40	75.40	75.40	76.56	76.56	77.72	78.88	81.20	82.36	83.52
<b>105.0</b>	135.72	135.72	135.72	136.88	139.20	140.36	142.68	146.16	148.48	151.96
<b>110.0</b>	211.12	212.28	213.44	214.60	216.92	220.40	223.88	227.36	232.00	236.64
<b>115.0</b>	305.08	305.08	306.24	308.56	312.04	315.52	320.16	324.80	330.60	336.40
<b>120.0</b>	414.12	414.12	415.28	418.76	422.24	426.88	431.52	438.48	444.28	451.24
<b>125.0</b>	537.08	538.24	539.40	542.88	546.36	552.16	557.96	563.76	571.88	578.84
<b>130.0</b>	670.48	670.48	672.80	676.28	679.76	685.56	691.36	697.16	705.28	712.24
<b>135.0</b>	806.20	806.20	808.52	810.84	815.48	820.12	824.76	830.56	837.52	843.32
<b>140.0</b>	936.12	937.28	938.44	940.76	944.24	947.72	951.20	955.84	960.48	965.12
<b>145.0</b>	1052.12	1053.28	1054.44	1055.60	1057.92	1060.24	1062.56	1066.04	1068.36	1071.84
<b>150.0</b>	1150.72	1150.72	1150.72	1151.88	1153.04	1154.20	1156.52	1157.68	1160.00	1161.16
<b>155.0</b>	1228.44	1228.44	1228.44	1229.60	1229.60	1230.76	1231.92	1233.08	1234.24	1235.40
<b>160.0</b>	1289.92	1289.92	1289.92	1291.08	1291.08	1291.08	1292.24	1293.40	1293.40	1294.56
<b>165.0</b>	1337.48	1337.48	1337.48	1337.48	1338.64	1338.64	1339.80	1339.80	1340.96	1342.12
<b>170.0</b>	1373.44	1372.28	1373.44	1373.44	1373.44	1373.44	1374.60	1374.60	1375.76	1375.76
<b>175.0</b>	1395.48	1395.48	1395.48	1395.48	1396.64	1396.64	1396.64	1396.64	1396.64	1396.64
<b>180.0</b>	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76

Vert. Horizontal Angles  
 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>
<b>0.0</b>	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48	1279.48
<b>1.0</b>	1278.32	1278.32	1278.32	1278.32	1279.48	1279.48	1279.48	1279.48	1278.32
<b>3.0</b>	1272.52	1273.68	1274.84	1274.84	1276.00	1277.16	1277.16	1277.16	1277.16
<b>5.0</b>	1259.76	1263.24	1265.56	1267.88	1270.20	1271.36	1272.52	1272.52	1272.52
<b>7.0</b>	1241.20	1245.84	1250.48	1256.28	1259.76	1263.24	1264.40	1266.72	1266.72
<b>9.0</b>	1215.68	1224.96	1233.08	1240.04	1247.00	1251.64	1255.12	1257.44	1258.60
<b>11.0</b>	1183.20	1195.96	1208.72	1220.32	1229.60	1237.72	1243.52	1245.84	1248.16
<b>13.0</b>	1141.44	1161.16	1178.56	1194.80	1208.72	1219.16	1227.28	1231.92	1233.08
<b>15.0</b>	1095.04	1120.56	1143.76	1165.80	1184.36	1198.28	1208.72	1215.68	1216.84

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_SO\_35\_U1S1\_BL.IES****CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1041.68	1073.00	1103.16	1131.00	1154.20	1172.76	1186.68	1194.80	1198.28
<b>19.5</b>	963.96	1005.72	1044.00	1081.12	1111.28	1135.64	1154.20	1164.64	1168.12
<b>22.5</b>	860.72	912.92	961.64	1010.36	1049.80	1082.28	1106.64	1120.56	1125.20
<b>25.5</b>	748.20	808.52	868.84	926.84	975.56	1017.32	1047.48	1064.88	1069.52
<b>29.0</b>	612.48	680.92	750.52	817.80	878.12	926.84	963.96	987.16	995.28
<b>33.0</b>	464.00	533.60	605.52	679.76	749.36	809.68	852.60	880.44	889.72
<b>37.5</b>	316.68	378.16	446.60	518.52	592.76	657.72	706.44	736.60	745.88
<b>42.5</b>	194.88	241.28	293.48	357.28	421.08	474.44	528.96	559.12	569.56
<b>47.5</b>	116.00	147.32	180.96	226.20	272.60	319.00	357.28	383.96	393.24
<b>55.0</b>	52.20	64.96	82.36	103.24	127.60	150.80	172.84	187.92	192.56
<b>65.0</b>	19.72	24.36	30.16	35.96	44.08	52.20	59.16	63.80	66.12
<b>75.0</b>	8.12	9.28	11.60	12.76	15.08	17.40	19.72	20.88	22.04
<b>85.0</b>	1.16	2.32	2.32	2.32	2.32	3.48	3.48	3.48	3.48
<b>90.0</b>	1.16	1.16	1.16	1.16	1.16	0.00	0.00	0.00	0.00
<b>95.0</b>	31.32	31.32	31.32	32.48	32.48	32.48	32.48	31.32	31.32
<b>100.0</b>	84.68	87.00	88.16	89.32	90.48	90.48	91.64	91.64	91.64
<b>105.0</b>	154.28	157.76	160.08	162.40	164.72	167.04	167.04	168.20	168.20
<b>110.0</b>	241.28	244.76	249.40	252.88	256.36	258.68	259.84	261.00	261.00
<b>115.0</b>	342.20	348.00	353.80	358.44	361.92	365.40	367.72	368.88	370.04
<b>120.0</b>	458.20	465.16	472.12	476.76	481.40	484.88	487.20	489.52	490.68
<b>125.0</b>	586.96	593.92	599.72	605.52	610.16	613.64	617.12	619.44	620.60
<b>130.0</b>	719.20	726.16	731.96	736.60	741.24	744.72	748.20	750.52	751.68
<b>135.0</b>	849.12	854.92	859.56	863.04	867.68	871.16	874.64	876.96	878.12
<b>140.0</b>	968.60	973.24	976.72	980.20	983.68	986.00	989.48	991.80	992.96
<b>145.0</b>	1074.16	1076.48	1079.96	1082.28	1084.60	1088.08	1090.40	1092.72	1093.88
<b>150.0</b>	1163.48	1165.80	1166.96	1170.44	1172.76	1175.08	1177.40	1178.56	1179.72
<b>155.0</b>	1236.56	1238.88	1240.04	1242.36	1244.68	1245.84	1248.16	1249.32	1250.48
<b>160.0</b>	1296.88	1298.04	1299.20	1300.36	1302.68	1303.84	1306.16	1306.16	1306.16
<b>165.0</b>	1343.28	1344.44	1345.60	1346.76	1347.92	1347.92	1349.08	1350.24	1350.24
<b>170.0</b>	1376.92	1376.92	1378.08	1378.08	1379.24	1379.24	1380.40	1380.40	1380.40
<b>175.0</b>	1396.64	1397.80	1397.80	1397.80	1397.80	1397.80	1397.80	1398.96	1397.80
<b>180.0</b>	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	397.74	N.A.	8.40
0-30	720.20	N.A.	15.20
0-40	957.73	N.A.	20.20
0-60	1205.92	N.A.	25.50
0-80	1269.89	N.A.	26.80
0-90	1276.71	N.A.	27.00
10-90	1180.56	N.A.	24.90
20-40	559.98	N.A.	11.80
20-50	737.33	N.A.	15.60
40-70	294.02	N.A.	6.20
60-80	63.97	N.A.	1.40
70-80	18.14	N.A.	0.40
80-90	6.82	N.A.	0.10
90-110	204.03	N.A.	4.30
90-120	540.91	N.A.	11.40
90-130	1059.54	N.A.	22.40
90-150	2376.57	N.A.	50.20
90-180	3457.53	N.A.	73.00
110-180	3253.51	N.A.	68.70
0-180	4734.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.15
10-20	301.60
20-30	322.45
30-40	237.53
40-50	177.35
50-60	70.84
60-70	45.83
70-80	18.14
80-90	6.82
90-100	39.59
100-110	164.44
110-120	336.88
120-130	518.63
130-140	648.28
140-150	668.75
150-160	569.44
160-170	378.82
170-180	132.70

**IES INDOOR REPORT**

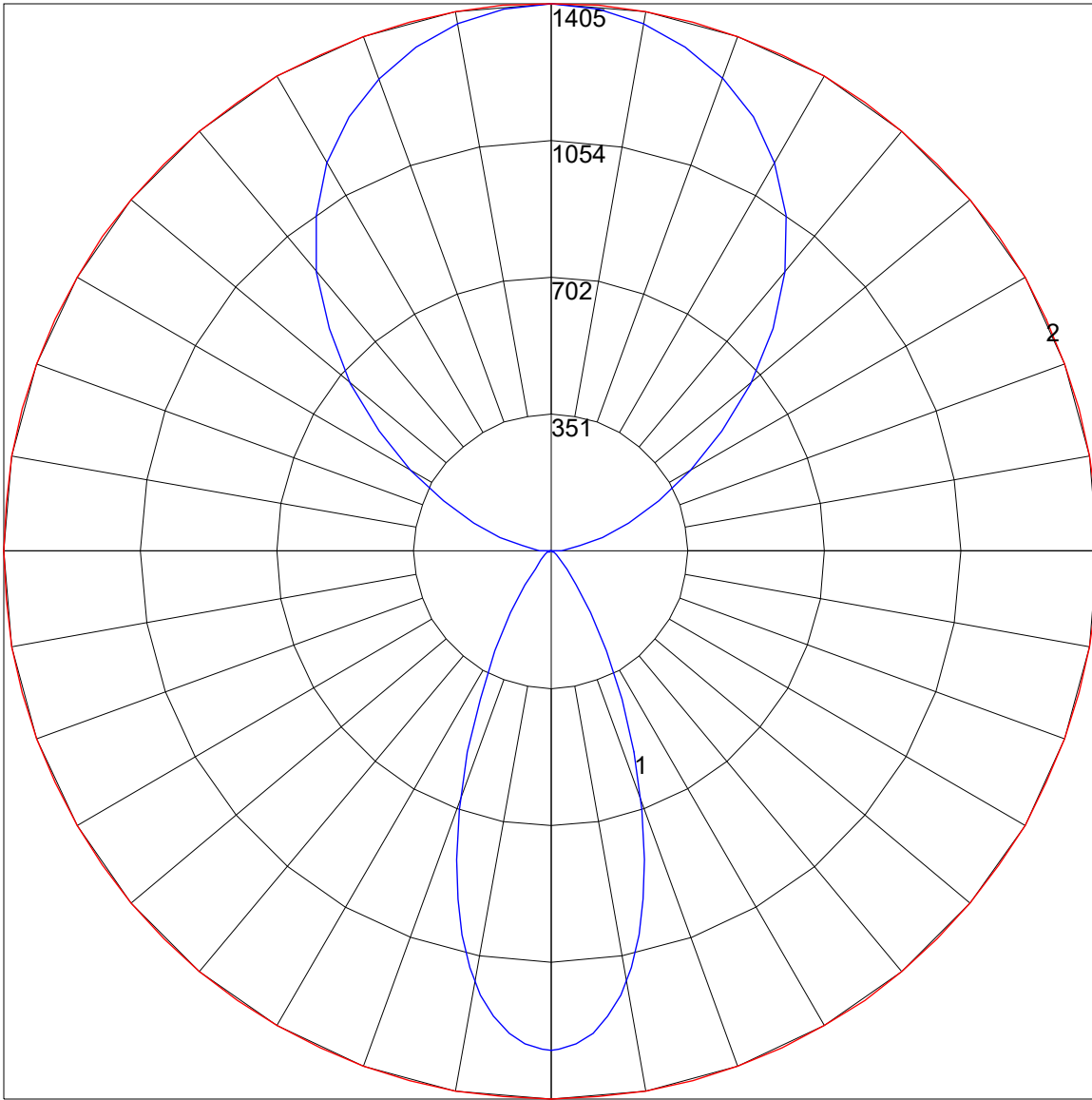
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	94	90	86	83	83	80	78	75	63	61	59	47	46	45	32	32	31	24
2	86	79	74	70	77	71	67	63	56	53	51	42	41	39	30	29	28	22
3	79	71	64	59	71	64	58	54	51	47	44	38	36	34	27	26	25	20
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18
5	67	57	50	44	60	52	45	41	41	37	34	32	29	27	23	22	20	17
6	62	51	44	39	56	47	40	36	38	33	30	29	26	24	21	20	19	15
7	58	47	40	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14
8	54	43	36	31	48	39	33	29	32	27	24	25	22	20	19	17	16	13
9	50	39	32	28	45	36	30	26	29	25	22	23	20	18	17	16	14	12
10	47	36	29	25	42	33	27	23	27	23	20	22	19	17	16	15	13	11

POLAR GRAPH



Maximum Candela = 1404.76 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.)