

**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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	120	123	126	126
Total Lumens, 4' rail length (1219mm)	6218	6414	6545	6545
Lumens per foot (305mm)	1555	1604	1636	1636
Lumens per foot UP (305mm)	973	1003	1024	1024
Lumens per foot DOWN (305mm)	582	600	612	612
Input Power (W), 4' rail length (1219mm)	52.2	52.2	52.2	52.2
Watts per foot (305mm)	13.1	13.1	13.1	13.1
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](http://vode.com).



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121911547 (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-CC-SO-35-U1S2-AL  
[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/60° symmetric 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	6545
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	52.24
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)	0.26 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	4551	6905	8727
55	2670	4173	6052
65	1910	2816	4515
75	1448	1991	3338
85	810	998	1962

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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>	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52
<b>1.0</b>	1533.52	1533.52	1532.36	1532.36	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52
<b>3.0</b>	1528.88	1528.88	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04	1530.04
<b>5.0</b>	1520.76	1520.76	1521.92	1521.92	1521.92	1521.92	1523.08	1523.08	1523.08	1524.24
<b>7.0</b>	1508.00	1508.00	1508.00	1509.16	1509.16	1510.32	1511.48	1512.64	1513.80	1514.96
<b>9.0</b>	1488.28	1488.28	1490.60	1490.60	1491.76	1492.92	1495.24	1497.56	1498.72	1501.04
<b>11.0</b>	1462.76	1463.92	1465.08	1466.24	1467.40	1470.88	1473.20	1476.68	1480.16	1482.48
<b>13.0</b>	1431.44	1432.60	1433.76	1436.08	1438.40	1443.04	1446.52	1451.16	1454.64	1459.28
<b>15.0</b>	1393.16	1394.32	1396.64	1400.12	1404.76	1409.40	1414.04	1419.84	1426.80	1432.60
<b>17.0</b>	1349.08	1349.08	1352.56	1356.04	1361.84	1368.80	1375.76	1383.88	1392.00	1400.12
<b>19.5</b>	1280.64	1282.96	1286.44	1292.24	1300.36	1309.64	1320.08	1331.68	1342.12	1352.56
<b>22.5</b>	1184.36	1186.68	1191.32	1199.44	1211.04	1223.80	1237.72	1252.80	1266.72	1281.80
<b>25.5</b>	1073.00	1075.32	1082.28	1092.72	1107.80	1124.04	1142.60	1161.16	1180.88	1198.28
<b>29.0</b>	926.84	930.32	938.44	952.36	969.76	991.80	1015.00	1039.36	1063.72	1084.60
<b>33.0</b>	751.68	754.00	764.44	780.68	802.72	828.24	856.08	885.08	914.08	939.60
<b>37.5</b>	563.76	567.24	577.68	593.92	615.96	642.64	672.80	704.12	735.44	764.44
<b>42.5</b>	394.40	396.72	406.00	419.92	438.48	462.84	489.52	518.52	548.68	576.52
<b>47.5</b>	272.60	274.92	281.88	292.32	307.40	324.80	345.68	368.88	393.24	417.60
<b>55.0</b>	163.56	164.72	168.20	175.16	183.28	193.72	205.32	219.24	234.32	249.40
<b>65.0</b>	90.48	91.64	92.80	95.12	99.76	103.24	109.04	114.84	121.80	128.76
<b>75.0</b>	46.40	46.40	47.56	47.56	49.88	51.04	53.36	55.68	58.00	60.32
<b>85.0</b>	12.76	12.76	12.76	12.76	12.76	12.76	12.76	13.92	13.92	13.92
<b>90.0</b>	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
<b>95.0</b>	32.48	32.48	32.48	32.48	33.64	33.64	33.64	34.80	34.80	35.96
<b>100.0</b>	88.16	88.16	89.32	90.48	92.80	95.12	97.44	100.92	103.24	106.72
<b>105.0</b>	172.84	174.00	175.16	176.32	179.80	182.12	185.60	189.08	192.56	196.04
<b>110.0</b>	274.92	274.92	276.08	278.40	281.88	285.36	288.84	293.48	296.96	301.60
<b>115.0</b>	393.24	393.24	395.56	397.88	401.36	404.84	409.48	414.12	418.76	424.56
<b>120.0</b>	528.96	528.96	531.28	533.60	537.08	540.56	546.36	553.32	560.28	567.24
<b>125.0</b>	678.60	678.60	680.92	684.40	689.04	693.68	699.48	705.28	712.24	716.88
<b>130.0</b>	836.36	837.52	838.68	841.00	844.48	847.96	852.60	856.08	860.72	864.20
<b>135.0</b>	984.84	986.00	986.00	988.32	990.64	992.96	995.28	998.76	1001.08	1003.40
<b>140.0</b>	1117.08	1117.08	1118.24	1119.40	1120.56	1121.72	1124.04	1125.20	1127.52	1129.84
<b>145.0</b>	1229.60	1230.76	1230.76	1231.92	1231.92	1233.08	1235.40	1236.56	1237.72	1240.04
<b>150.0</b>	1325.88	1325.88	1325.88	1327.04	1327.04	1328.20	1329.36	1330.52	1331.68	1332.84
<b>155.0</b>	1404.76	1404.76	1404.76	1405.92	1405.92	1407.08	1407.08	1408.24	1409.40	1410.56
<b>160.0</b>	1468.56	1467.40	1468.56	1468.56	1468.56	1468.56	1469.72	1469.72	1470.88	1470.88
<b>165.0</b>	1514.96	1514.96	1514.96	1516.12	1516.12	1516.12	1516.12	1516.12	1516.12	1516.12
<b>170.0</b>	1547.44	1547.44	1547.44	1547.44	1547.44	1547.44	1547.44	1547.44	1547.44	1547.44
<b>175.0</b>	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00
<b>180.0</b>	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64

**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>	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52	1533.52
<b>1.0</b>	1533.52	1532.36	1533.52	1532.36	1533.52	1532.36	1533.52	1532.36	1532.36
<b>3.0</b>	1531.20	1530.04	1531.20	1531.20	1531.20	1531.20	1531.20	1531.20	1531.20
<b>5.0</b>	1524.24	1525.40	1525.40	1526.56	1526.56	1526.56	1527.72	1527.72	1527.72
<b>7.0</b>	1516.12	1517.28	1517.28	1518.44	1519.60	1520.76	1520.76	1520.76	1520.76
<b>9.0</b>	1503.36	1504.52	1506.84	1508.00	1509.16	1510.32	1511.48	1511.48	1511.48
<b>11.0</b>	1485.96	1488.28	1491.76	1492.92	1495.24	1496.40	1497.56	1497.56	1497.56
<b>13.0</b>	1463.92	1467.40	1470.88	1474.36	1476.68	1479.00	1480.16	1481.32	1481.32
<b>15.0</b>	1438.40	1443.04	1447.68	1452.32	1455.80	1458.12	1459.28	1460.44	1460.44

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1407.08	1414.04	1418.68	1424.48	1429.12	1431.44	1433.76	1434.92	1434.92
<b>19.5</b>	1361.84	1369.96	1376.92	1383.88	1388.52	1392.00	1394.32	1395.48	1396.64
<b>22.5</b>	1294.56	1306.16	1315.44	1321.24	1327.04	1331.68	1334.00	1336.32	1337.48
<b>25.5</b>	1214.52	1228.44	1238.88	1248.16	1255.12	1259.76	1262.08	1264.40	1265.56
<b>29.0</b>	1105.48	1122.88	1135.64	1146.08	1154.20	1158.84	1162.32	1163.48	1163.48
<b>33.0</b>	963.96	983.68	998.76	1011.52	1019.64	1024.28	1026.60	1028.92	1030.08
<b>37.5</b>	792.28	813.16	830.56	843.32	851.44	857.24	860.72	861.88	863.04
<b>42.5</b>	604.36	625.24	642.64	656.56	664.68	671.64	675.12	677.44	677.44
<b>47.5</b>	440.80	459.36	476.76	489.52	499.96	506.92	512.72	515.04	516.20
<b>55.0</b>	265.64	279.56	292.32	305.08	315.52	323.64	330.60	334.08	336.40
<b>65.0</b>	136.88	145.00	151.96	160.08	168.20	175.16	179.80	183.28	185.60
<b>75.0</b>	63.80	66.12	69.60	73.08	76.56	80.04	82.36	83.52	84.68
<b>85.0</b>	15.08	15.08	16.24	16.24	17.40	17.40	17.40	17.40	17.40
<b>90.0</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
<b>95.0</b>	37.12	38.28	40.60	41.76	42.92	42.92	44.08	45.24	45.24
<b>100.0</b>	109.04	111.36	112.52	113.68	114.84	118.32	119.48	119.48	120.64
<b>105.0</b>	198.36	201.84	204.16	207.64	211.12	213.44	214.60	215.76	215.76
<b>110.0</b>	305.08	309.72	315.52	320.16	323.64	325.96	327.12	328.28	328.28
<b>115.0</b>	431.52	438.48	443.12	447.76	450.08	452.40	454.72	455.88	455.88
<b>120.0</b>	574.20	578.84	583.48	586.96	590.44	592.76	595.08	596.24	597.40
<b>125.0</b>	721.52	726.16	729.64	733.12	735.44	738.92	741.24	742.40	743.56
<b>130.0</b>	867.68	871.16	874.64	878.12	881.60	883.92	885.08	886.24	887.40
<b>135.0</b>	1006.88	1009.20	1012.68	1015.00	1017.32	1019.64	1021.96	1021.96	1023.12
<b>140.0</b>	1132.16	1134.48	1136.80	1139.12	1141.44	1142.60	1143.76	1143.76	1143.76
<b>145.0</b>	1241.20	1243.52	1245.84	1247.00	1248.16	1249.32	1249.32	1250.48	1250.48
<b>150.0</b>	1335.16	1336.32	1337.48	1338.64	1338.64	1339.80	1339.80	1340.96	1340.96
<b>155.0</b>	1410.56	1411.72	1412.88	1412.88	1412.88	1414.04	1414.04	1414.04	1414.04
<b>160.0</b>	1472.04	1472.04	1472.04	1472.04	1472.04	1473.20	1473.20	1473.20	1473.20
<b>165.0</b>	1517.28	1517.28	1517.28	1517.28	1517.28	1517.28	1517.28	1517.28	1517.28
<b>170.0</b>	1548.60	1547.44	1547.44	1547.44	1548.60	1547.44	1548.60	1548.60	1548.60
<b>175.0</b>	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00	1566.00
<b>180.0</b>	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64	1570.64

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	520.93	N.A.	8.00
0-30	1036.97	N.A.	15.80
0-40	1496.14	N.A.	22.90
0-60	2120.62	N.A.	32.40
0-80	2402.82	N.A.	36.70
0-90	2449.49	N.A.	37.40
10-90	2332.09	N.A.	35.60
20-40	975.21	N.A.	14.90
20-50	1389.74	N.A.	21.20
40-70	805.89	N.A.	12.30
60-80	282.20	N.A.	4.30
70-80	100.80	N.A.	1.50
80-90	46.67	N.A.	0.70
90-110	259.95	N.A.	4.00
90-120	684.77	N.A.	10.50
90-130	1322.87	N.A.	20.20
90-150	2869.78	N.A.	43.80
90-180	4095.88	N.A.	62.60
110-180	3835.93	N.A.	58.60
0-180	6545.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.41
10-20	403.52
20-30	516.05
30-40	459.17
40-50	414.53
50-60	209.95
60-70	181.41
70-80	100.80
80-90	46.67
90-100	49.77
100-110	210.18
110-120	424.82
120-130	638.10
130-140	772.44
140-150	774.48
150-160	649.25
160-170	427.96
170-180	148.89

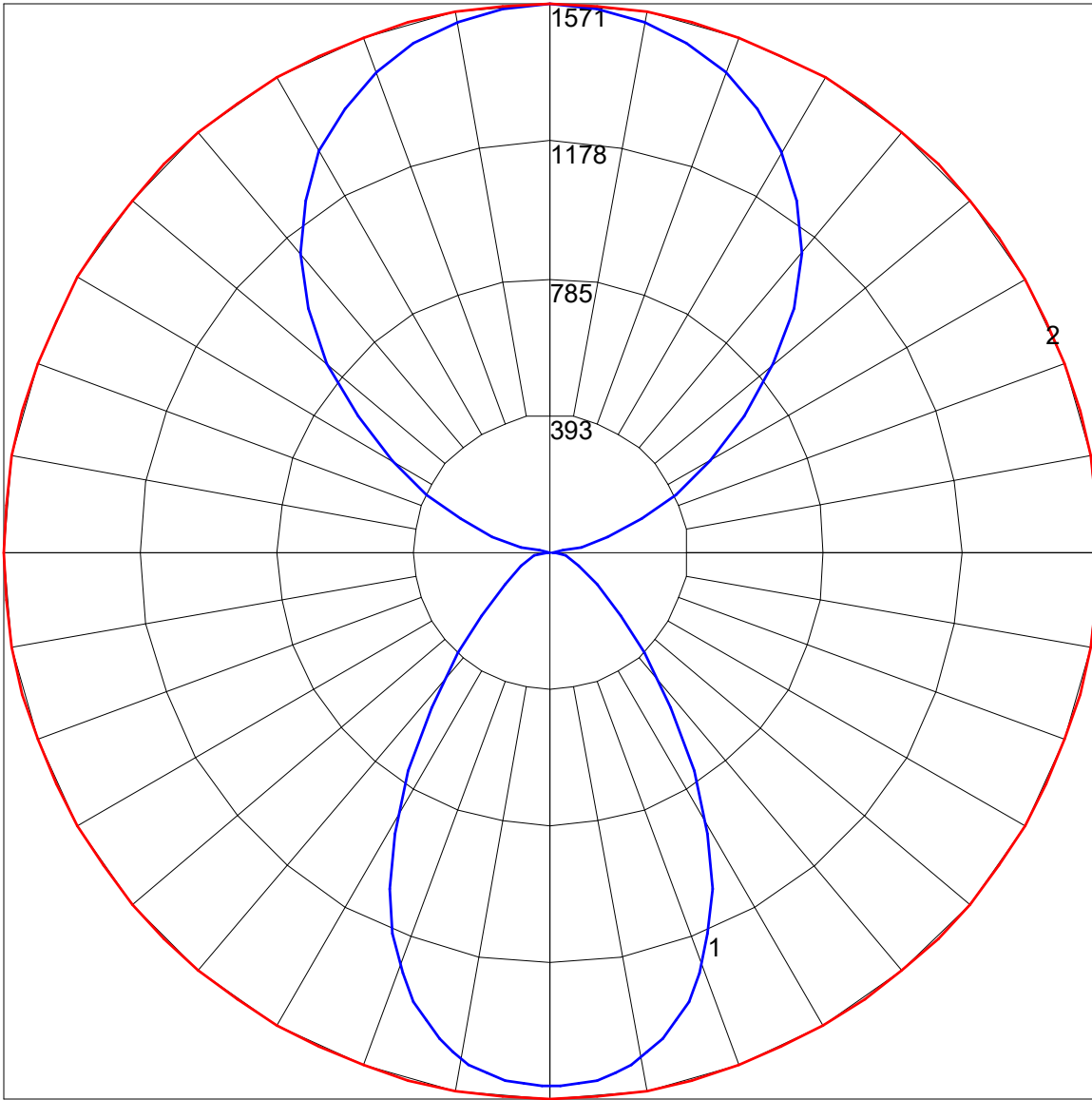
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	88	85	86	83	80	77	68	65	64	53	52	51	40	39	39	33
2	87	81	75	70	79	73	69	65	60	57	54	48	45	43	36	35	34	28
3	80	71	65	59	73	65	59	55	54	49	46	43	40	38	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	39	35	33	30	28	26	22
5	68	57	50	44	62	52	46	41	43	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	47	41	36	39	34	31	32	28	26	25	23	21	18
7	58	47	39	34	53	43	36	32	36	31	27	29	26	23	23	21	19	16
8	54	43	35	30	49	39	33	28	33	28	25	27	23	21	21	19	17	15
9	51	39	32	27	46	36	30	25	30	26	22	25	21	19	20	17	16	14
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 1570.64 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)