

## 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	93
Total Lumens, 4' rail length (1219mm)	4590	4735	4832	4832
Lumens per foot (305mm)	1148	1184	1208	1208
Lumens per foot UP (305mm)	876	903	922	922
Lumens per foot DOWN (305mm)	272	281	286	286
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

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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] L121911548 (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-U1S1-BL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/40° symmetric 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	4832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	1069	2200	4376
55	492	1009	2045
65	269	507	1016
75	145	306	594
85	74	83	392

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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>	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64
<b>1.0</b>	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64
<b>3.0</b>	1099.68	1099.68	1099.68	1099.68	1099.68	1100.84	1100.84	1100.84	1102.00	1102.00
<b>5.0</b>	1081.12	1081.12	1082.28	1082.28	1083.44	1084.60	1085.76	1088.08	1089.24	1091.56
<b>7.0</b>	1049.80	1050.96	1050.96	1053.28	1055.60	1057.92	1060.24	1064.88	1068.36	1071.84
<b>9.0</b>	1010.36	1010.36	1011.52	1015.00	1018.48	1023.12	1027.76	1033.56	1040.52	1046.32
<b>11.0</b>	961.64	961.64	963.96	968.60	973.24	980.20	988.32	996.44	1005.72	1015.00
<b>13.0</b>	902.48	903.64	907.12	912.92	919.88	929.16	939.60	951.20	963.96	976.72
<b>15.0</b>	838.68	839.84	844.48	850.28	860.72	872.32	885.08	900.16	916.40	933.80
<b>17.0</b>	769.08	770.24	776.04	784.16	794.60	809.68	824.76	844.48	864.20	885.08
<b>19.5</b>	676.28	678.60	684.40	693.68	707.60	725.00	743.56	766.76	791.12	816.64
<b>22.5</b>	564.92	567.24	574.20	584.64	600.88	619.44	642.64	669.32	698.32	728.48
<b>25.5</b>	458.20	460.52	467.48	479.08	495.32	516.20	541.72	570.72	602.04	635.68
<b>29.0</b>	346.84	349.16	356.12	367.72	383.96	403.68	429.20	458.20	490.68	526.64
<b>33.0</b>	243.60	244.76	251.72	261.00	274.92	293.48	316.68	343.36	374.68	409.48
<b>37.5</b>	158.92	160.08	164.72	171.68	183.28	197.20	215.76	237.80	264.48	293.48
<b>42.5</b>	97.44	98.60	100.92	106.72	113.68	124.12	136.88	153.12	172.84	193.72
<b>47.5</b>	59.16	60.32	62.64	64.96	70.76	77.72	85.84	96.28	107.88	122.96
<b>55.0</b>	30.16	30.16	31.32	32.48	34.80	38.28	42.92	47.56	53.36	60.32
<b>65.0</b>	12.76	12.76	12.76	13.92	15.08	16.24	17.40	19.72	20.88	23.20
<b>75.0</b>	4.64	4.64	4.64	5.80	5.80	5.80	6.96	6.96	8.12	9.28
<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>	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
<b>95.0</b>	34.80	34.80	34.80	34.80	35.96	35.96	35.96	37.12	37.12	37.12
<b>100.0</b>	78.88	78.88	78.88	80.04	81.20	82.36	84.68	87.00	89.32	91.64
<b>105.0</b>	141.52	141.52	142.68	145.00	147.32	149.64	153.12	156.60	160.08	162.40
<b>110.0</b>	222.72	223.88	225.04	226.20	229.68	233.16	236.64	240.12	243.60	247.08
<b>115.0</b>	317.84	319.00	320.16	321.32	324.80	328.28	331.76	336.40	343.36	352.64
<b>120.0</b>	425.72	425.72	428.04	431.52	436.16	443.12	450.08	460.52	472.12	482.56
<b>125.0</b>	562.60	562.60	566.08	570.72	576.52	584.64	592.76	600.88	610.16	618.28
<b>130.0</b>	712.24	712.24	714.56	719.20	722.68	729.64	735.44	742.40	749.36	757.48
<b>135.0</b>	854.92	854.92	857.24	859.56	864.20	868.84	874.64	880.44	887.40	894.36
<b>140.0</b>	988.32	989.48	990.64	992.96	996.44	1001.08	1005.72	1011.52	1017.32	1023.12
<b>145.0</b>	1110.12	1111.28	1112.44	1113.60	1117.08	1120.56	1124.04	1128.68	1134.48	1139.12
<b>150.0</b>	1216.84	1216.84	1218.00	1219.16	1221.48	1224.96	1227.28	1230.76	1235.40	1238.88
<b>155.0</b>	1306.16	1306.16	1307.32	1308.48	1309.64	1311.96	1314.28	1316.60	1320.08	1323.56
<b>160.0</b>	1379.24	1379.24	1379.24	1380.40	1381.56	1382.72	1383.88	1386.20	1387.36	1389.68
<b>165.0</b>	1433.76	1433.76	1433.76	1434.92	1434.92	1434.92	1436.08	1437.24	1438.40	1438.40
<b>170.0</b>	1470.88	1470.88	1470.88	1470.88	1470.88	1470.88	1472.04	1472.04	1472.04	1473.20
<b>175.0</b>	1491.76	1491.76	1490.60	1491.76	1491.76	1491.76	1491.76	1491.76	1491.76	1491.76
<b>180.0</b>	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40

**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>
<b>0.0</b>	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64
<b>1.0</b>	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64	1106.64
<b>3.0</b>	1103.16	1103.16	1104.32	1104.32	1104.32	1105.48	1105.48	1105.48	1105.48
<b>5.0</b>	1092.72	1095.04	1096.20	1097.36	1098.52	1099.68	1100.84	1100.84	1100.84
<b>7.0</b>	1075.32	1078.80	1082.28	1085.76	1088.08	1090.40	1091.56	1092.72	1093.88
<b>9.0</b>	1053.28	1059.08	1064.88	1069.52	1075.32	1078.80	1081.12	1082.28	1083.44
<b>11.0</b>	1024.28	1033.56	1042.84	1050.96	1056.76	1062.56	1067.20	1069.52	1070.68
<b>13.0</b>	989.48	1002.24	1015.00	1025.44	1035.88	1042.84	1048.64	1052.12	1053.28
<b>15.0</b>	950.04	967.44	982.52	997.60	1009.20	1019.64	1027.76	1031.24	1033.56

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	905.96	926.84	946.56	963.96	979.04	991.80	1001.08	1006.88	1009.20
<b>19.5</b>	843.32	868.84	892.04	915.24	934.96	950.04	962.80	969.76	972.08
<b>22.5</b>	759.80	791.12	820.12	849.12	872.32	892.04	907.12	916.40	918.72
<b>25.5</b>	671.64	706.44	741.24	773.72	800.40	824.76	841.00	851.44	854.92
<b>29.0</b>	564.92	604.36	641.48	677.44	707.60	733.12	752.84	764.44	767.92
<b>33.0</b>	446.60	484.88	524.32	559.12	590.44	617.12	636.84	648.44	653.08
<b>37.5</b>	325.96	360.76	394.40	426.88	455.88	479.08	497.64	508.08	511.56
<b>42.5</b>	219.24	244.76	270.28	295.80	317.84	337.56	350.32	358.44	361.92
<b>47.5</b>	139.20	156.60	174.00	191.40	206.48	219.24	228.52	234.32	236.64
<b>55.0</b>	68.44	76.56	84.68	91.64	98.60	105.56	110.20	112.52	113.68
<b>65.0</b>	26.68	29.00	31.32	33.64	37.12	38.28	40.60	41.76	41.76
<b>75.0</b>	9.28	10.44	11.60	12.76	12.76	13.92	15.08	15.08	15.08
<b>85.0</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	3.48	3.48
<b>90.0</b>	1.16	1.16	1.16	2.32	2.32	2.32	2.32	2.32	2.32
<b>95.0</b>	38.28	38.28	38.28	39.44	39.44	39.44	39.44	40.60	40.60
<b>100.0</b>	93.96	96.28	97.44	97.44	97.44	100.92	102.08	102.08	102.08
<b>105.0</b>	165.88	167.04	168.20	174.00	178.64	180.96	182.12	182.12	182.12
<b>110.0</b>	250.56	257.52	265.64	272.60	276.08	278.40	279.56	279.56	279.56
<b>115.0</b>	363.08	372.36	379.32	385.12	388.60	390.92	393.24	394.40	394.40
<b>120.0</b>	490.68	498.80	505.76	510.40	515.04	518.52	522.00	523.16	523.16
<b>125.0</b>	626.40	633.36	640.32	647.28	653.08	657.72	661.20	662.36	663.52
<b>130.0</b>	764.44	772.56	780.68	787.64	793.44	798.08	802.72	803.88	805.04
<b>135.0</b>	901.32	909.44	916.40	924.52	930.32	934.96	938.44	940.76	941.92
<b>140.0</b>	1030.08	1037.04	1044.00	1049.80	1055.60	1059.08	1062.56	1064.88	1064.88
<b>145.0</b>	1144.92	1150.72	1156.52	1161.16	1165.80	1169.28	1171.60	1172.76	1172.76
<b>150.0</b>	1243.52	1248.16	1251.64	1256.28	1258.60	1260.92	1262.08	1263.24	1263.24
<b>155.0</b>	1325.88	1328.20	1331.68	1334.00	1335.16	1336.32	1337.48	1338.64	1338.64
<b>160.0</b>	1390.84	1393.16	1394.32	1395.48	1396.64	1397.80	1397.80	1397.80	1397.80
<b>165.0</b>	1439.56	1440.72	1440.72	1441.88	1441.88	1443.04	1443.04	1443.04	1443.04
<b>170.0</b>	1473.20	1473.20	1473.20	1473.20	1474.36	1474.36	1474.36	1474.36	1474.36
<b>175.0</b>	1491.76	1491.76	1491.76	1491.76	1491.76	1491.76	1491.76	1491.76	1492.92
<b>180.0</b>	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	347.18	N.A.	7.20
0-30	635.79	N.A.	13.20
0-40	851.53	N.A.	17.60
0-60	1076.78	N.A.	22.30
0-80	1138.14	N.A.	23.60
0-90	1145.07	N.A.	23.70
10-90	1061.66	N.A.	22.00
20-40	504.35	N.A.	10.40
20-50	664.82	N.A.	13.80
40-70	268.69	N.A.	5.60
60-80	61.35	N.A.	1.30
70-80	17.91	N.A.	0.40
80-90	6.94	N.A.	0.10
90-110	221.13	N.A.	4.60
90-120	577.14	N.A.	11.90
90-130	1128.32	N.A.	23.40
90-150	2530.5	N.A.	52.40
90-180	3686.69	N.A.	76.30
110-180	3465.56	N.A.	71.70
0-180	4831.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	83.41
10-20	263.77
20-30	288.61
30-40	215.74
40-50	160.47
50-60	64.78
60-70	43.44
70-80	17.91
80-90	6.94
90-100	45.50
100-110	175.63
110-120	356.02
120-130	551.18
130-140	690.17
140-150	712.01
150-160	608.69
160-170	405.73
170-180	141.77

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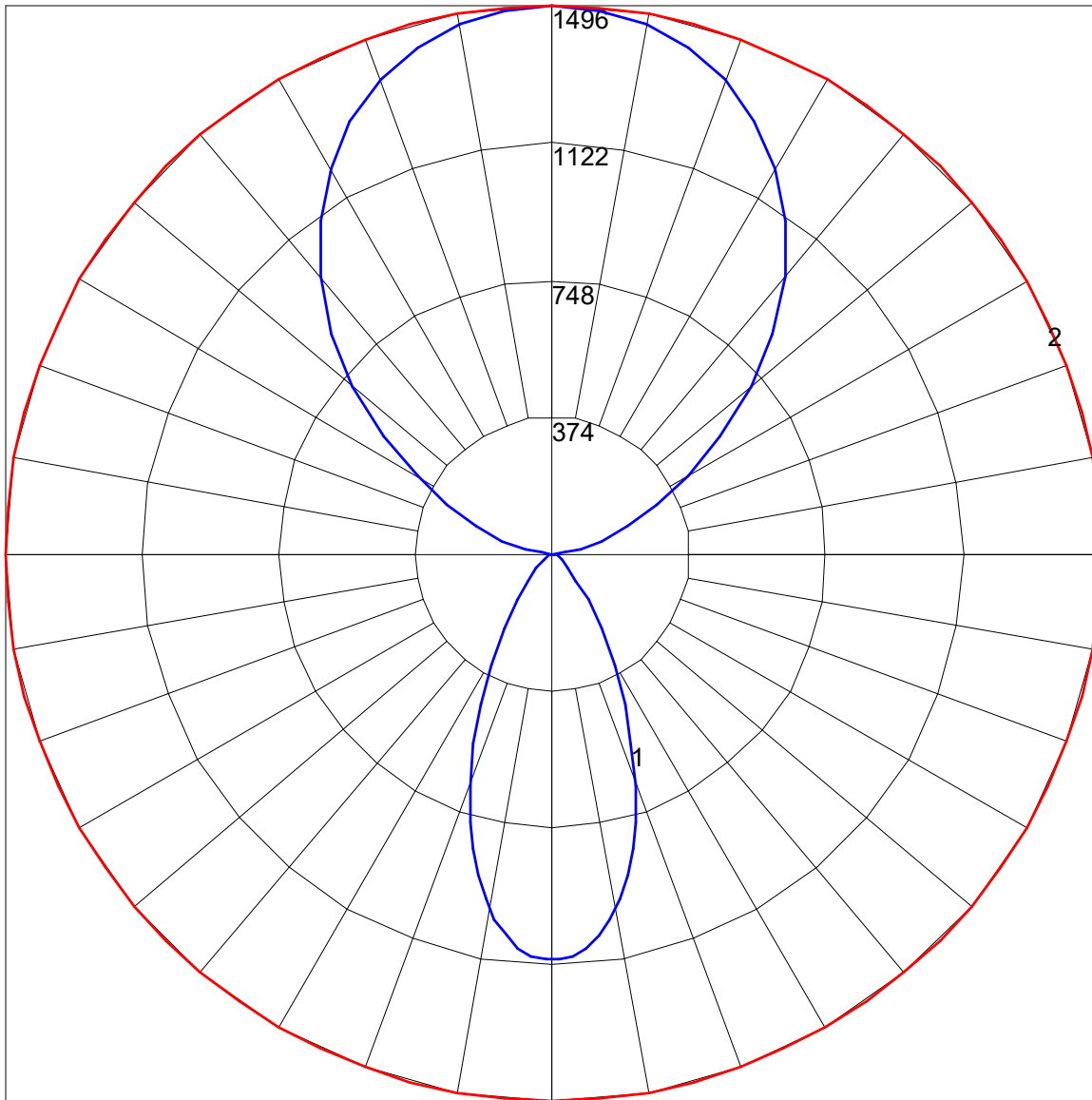
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	45	44	43	29	29	28	21
2	85	78	73	68	76	70	66	62	55	52	49	40	38	37	27	26	25	19
3	78	70	63	58	69	62	57	53	49	45	42	36	34	32	25	23	22	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	49	43	59	50	44	40	40	36	32	30	27	25	21	19	18	15
6	61	50	43	38	55	45	39	35	36	32	29	27	25	23	19	18	17	13
7	57	46	38	33	51	41	35	31	33	29	25	25	22	20	18	16	15	12
8	53	42	35	30	47	38	32	27	30	26	23	23	20	18	17	15	14	11
9	49	38	31	27	44	35	29	25	28	24	21	22	19	17	16	14	13	11
10	46	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	10

POLAR GRAPH



Maximum Candela = 1496.4 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.)